

석사학위논문

제주자생 약용식물의 활성 및 성분
에 관한 조사 연구

지도교수 이 남 호

제주대학교 교육대학원

화학교육전공

김 보 건

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指導教授 李 南 昊

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<국문초록>

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김 보 건

제주대학교 교육대학원 화학교육전공

지도교수 : 이 남 호

모든 식물체는 다양한 종류의 유기물과 무기물을 함유하고 있는데 특정의 식물에만 존재하고 사람이나 동물에 대하여 특별한 생리작용을 나타내는 활성물질(약효성분)이 존재한다. 활성물질로는 알칼로이드(alkaloids, 植物鹽基), 배당체(配糖體, glycosides), terpenoid, 식물색소, 정유(精油, essential oil) 등이 있다.

제주도는 한반도에서 멀리 남쪽으로 떨어져 있는 섬이면서 중앙에는 1950m의 한라산이 있고 고지대와 저지대가 공존하고 있어 다양한 식물군이 존재하고 있다. 본 연구자는 제주자생식물 1066종에 대하여 문헌을 근거로 하여 그 활성 및 성분을 조사하였다.

그 결과 이 중 232종의 식물에서 생리활성성분이 존재함을 확인하였고, 회향, 질경이, 사철쭉, 여뀌, 동백나무 등은 생리활성성분이 20종 이상 포함하고 있어 비교적 연구가 많이 진행되어온 식물임을 알 수 있었다. 그리고 제주자생식물에서 β -Sitosterol, Quercetin, Isoquercitrin, Chlorogenic acid, Daucosterol, Quercitrin 등은 발견되는 빈도수가 높은 생리활성성분임을 알 수 있었다.

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I. 서론

예전에는 약이라 하면 약초를 가리켰을 정도로 사람은 질병을 고치는 수단으로 가장 많이 이용하여 치료효과를 보았던 것이 약용식물이었다. 약용식물의 자원이 되고 대상이 되는 식물의 총수는 약 350,000여종을 헤아리고 있다.¹⁾

약용식물의 역사는 약학의 역사 또는 인류의 역사와 더불어 발생하고 발달하여 왔으며 그 발달과정은 바로 현대 약학의 시초가 되고 있다. 과거 전설이나 미신에 차 있던 약용식물의 장막은 하나씩 벗겨지고 있으나 아직도 약용식물 속에 숨겨져 있는 비밀은 무궁무진하며 과학적 접근으로 연구, 개발할 여지가 많은 것이다. 수천년동안 약용식물을 그대로 또는 간단한 가공만으로 약물로 사용해 왔었으며 19세기에 이르기까지 동양에서는 전래된 그대로의 종합적인 사고방식을 지켜왔으나, 서구에서는 분석적으로 약품식물의 약효성분을 탐구하기 시작하여, 동양과는 확연하게 다른 길로 발달해 나가게 되었다. 1815년 Serturmer가 아편에서 약효성분인 morphine을 분리한 이후 1817년(토근·emetine), 1818년(호미카·strychnine), 1820년(키나·quinine) 등이 계속적으로 분리되면서 약효에 관한 연구와 병행되어 성분약품으로 널리 이용되었고, 이들 천연물질의 화학구조가 밝혀지면서 이후의 약용식물의 성분연구에 지대한 영향을 미치게 되었다.

약용식물의 효능은 그 약효성분과 독특한 생리활성에 달려 있다. 모든 식물체는 다양한 종류의 유기물과 무기물을 함유하고 있는데 특정의 식물에만 존재하고 사람이나 동물에 대하여 특별한 생리작용을 나타내는 활성물질(약효성분)이 존재한다. 활성물질로는 알칼로이드(alkaloids, 植物鹽基), 배당체(配糖體, glycosides), terpenoids, steroide, 식물색소, 정유(精油, essential oil) 등이 있다.⁴⁾

제주도는 한반도에서 멀리 남쪽으로 떨어져 있는 섬이면서 중앙에는 1950m의 한라산이 있어 고지대와 저지대가 공존하고 있어 다양한 식물군이 존재하고 있다. 제주도 한라산 식물은 1905년부터 Faurie와 Taeque라는 신부들이 식물채집을 해서, 영국과 미국, 프랑스와 독일 등에 있는 식물연구기관에 표본을 팔아 선교활동의 일부로 쓴 것이 계기가 되어서 세계 학계에 알려졌다. 그리고 일본의 나카이(中井猛之進)박사를 비롯하여 오이(大井次三郎)박사, 모리(森爲三)박사, 그리고 미국의 Wilson 박사가 연구한 바가 크다. 특히 나카이 박사는 1914년 「제주도 한라산 식물보고서」에서 142과 1317종 116변종을 밝혔고, 그 후 李德鳳교수는 1957년에 171과 651속 1248종 217변종 총1465종으로 정리하였고, 1985년에 金文洪교수가 「제주식물도감」을 출판하는 공헌을 했다.²⁾ 본 연구에서는 제주자생식물의 목록을 金文洪교수의 「제주식물도감」을 근거로 하여 조사하였다.

제주도는 홍적세, 아니면 3기말에 대륙과 분리된 것으로 추정되며 이전에는 일본의 큐우슈우와 연결되어 있었을 것으로 추정된다. 제주도는 난대구에 속하므로 난대요소가 많으며 우리나라 대륙보다는 일본의 큐우슈우 식물분포와 더욱 비슷하다.¹⁾ 사면이 바

다로 둘러싸여 있고, 난류의 영향을 많이 받는 섬이며, 연강우량이 북면에서는 1530mm, 남면에서는 1600~1800mm, 겨울에는 북쪽의 서북풍, 여름에는 남쪽의 계절풍 등 그야말로 다양한 기상환경에 놓여있는 것이다. 한라산의 식물분포의 다양성이 수직으로 분포상황을 판별할 수 있는데 북쪽을 500m 가까이, 남쪽은 800m가까이에 상록활엽수가 자생하고 있으며, 북쪽은 700~1200m, 남쪽은 1000m~1500m사이에는 온대림으로 낙엽활엽수가 자생하며 그 위 북쪽 1200m~1500m, 남쪽은 1500m~1700m 사이에는 한대성 식물이 나고 있다. 그 위 남쪽 1700m~1850m 북쪽은 1500m~1900m사이는 관목대이며 한대이다. 그리고 북쪽은 1900m, 남쪽은 1850m 이상을 고산식물대라 할 수 있다.³⁾

이와같이 제주도에는 다양한 식물들이 서식하고 있어 많은 종류의 약용식물들이 존재할 것이라는 것을 짐작할 수 있다. 약용식물에 대한 활성 및 성분연구는 개별식물별로 다양하게 연구 조사되고 있으며 제주의 자생식물에 대한 성분연구도 활발히 조사되기 시작하고 있다.

본 연구자는 제주자생 약용식물에 대한 활성 및 성분을 조사함으로써 제주의 약용식물의 약용특성을 체계화하고 화학성분 및 그 구조를 정리하여 향후 관련 연구에 참고 자료를 제공함을 목적으로 하여 본 조사 연구를 시행하였다.

II. 연구 방법

1. 제주도의 자생 식물의 목록은 「제주식물도감」(김문홍, 1992증보판)을 근거로 하여 조사하였다.
2. 제주자생식물에 대한 활성은 기 발표된 연구논문을 주로 하여 조사하였고 종합약용 식물학(한국약용식물학연구회, 2001) 등의 문헌을 참고로 하였다.
3. 제주약용식물의 구성성분과 화학성분에 대한 생리활성, 그리고 생리활성성분에 대한 구조식은 인터넷자료와 기 발표된 연구논문을 근거로 하여 조사하였다.
4. 주로 인용한 인터넷자료는 주소 www.kimsonline.co.kr(Tradimed)에서 인용하였다.

Ⅲ. 결과 및 고찰

1. 조사대상이 된 제주자생식물은 1066종이며 이중 232종에 대해서 약리적 활성이 있거나 생리활성성분이 존재하는 것으로 조사되었다. 그 결과는 Appendix 1과 같다.
2. 식물자체의 약효특성은 식물이 함유하고 있는 화학성분들의 생리활성 특성에 근거하고 있다. 그러나 식물에 따라서는 서로 상반되는 활성성분들을 포함하는 경우가 많아 종합적인 활성이 임상적으로 중요한 요소임을 알 수 있다.
3. 제주도 자생 약용식물 중 생리활성성분이 비교적 많은 식물을 Table 1에 정리하였다. 회향, 질경이, 사철쭉, 여뀌, 동백나무 등은 생리활성성분이 20종 이상 포함하고 있어 비교적 연구가 많이 진행되어온 식물임을 알 수 있다.
4. 제주도 자생 약용식물의 생리활성성분 중 비교적 많은 빈도를 차지하는 성분을 Table 2 에 정리하였다. β -sitosterol, Quercetin, isoquercitrin, chlorogenic acid, daucosterol, quercitrin 등은 많은 식물에서 발견되는 생리활성성분임을 알 수 있었다.
5. 제주도 특산 식물 또는 특산식물의 근연식물(제주도자생)과 그 생리활성 성분 수를 Table 3 에 정리하였다. 제주도 특산 식물은 그 특수성으로 인하여 연구가 미흡하고 조사된 성분이 매우 적음을 알 수 있다. 향후 많은 연구와 조사활동이 기대된다.

Table 1. Plants whose bioactive component is most extensively reported in the literature

식물명(학명, 과)	생리활성성분수
회향 (<i>Foeniculum vulgare</i> Mill, 산형과)	36
질경이 (<i>Plantago asiatica</i> L., 질경이과)	29
사철쭉 (<i>Artemisia capillaris</i> Thunb. 국화과)	26
여뀌 (<i>Polygonum hydropiper</i> L., 마디풀과)	24
동백나무 (<i>Camellia japonica</i> L., 차나무과)	20
멀구슬나무(<i>Melia azedarach</i> L., 멀구슬나무과)	19
독말풀 (<i>Datura stramonium</i> L., 가지과)	19
참소리쟁이 (<i>Rumex japonicus</i> Houtt. 마디풀과)	18
녹나무 (<i>Cinnamomum camphora</i> Sieb. 녹나무과)	17
양하 (<i>Zingiber mioga</i> (Thunb.) Rosc. 생강과)	16
유자나무 (<i>Citrus junos</i> Tanaka, 운향과)	15
초피나무 (<i>Zanthoxylum piperitum</i> (L.)DC. 운향과)	14
남가새 (<i>Tribulus terrestris</i> L. 남가새과)	14
피마자 (<i>Ricinus communis</i> L. 대극과)	14
구기자나무 (<i>Lycium chinense</i> Mill. 가지과)	13
인동 (<i>Lonicera japonica</i> Thunb. 인동과)	13
호장근(<i>Polygonum cuspidatum</i> Sieb.et Zucc. 마디풀과)	13
배초향 (<i>Agastache rugosa</i> (Fisch.et Meyer) O.Kuntze, 꿀풀과)	13
약모밀(<i>Houttuynia cordata</i> Thunb. 삼백초과)	12
띠 (<i>Imperata cylindrica</i> (L.) Beauv. var, 벼과)	12
구릿대 (<i>Angelica dahurica</i> Benth.et Hook. F. 산형과)	11
절레꽃 (<i>Rosa multiflora</i> Thunb. 장미과)	11
창포 (<i>Acorus calamus</i> var. <i>angustatus</i> Bess. 천남성과)	11
마디풀 (<i>Polygonum aviculare</i> L. 마디풀과)	10
별꽃 (<i>Stellaria media</i> (L.) Cyr. 석죽과)	10
예덕나무(<i>Mallotus japonicus</i> (Thunberg) Muell.-Arg.(대극과)	10
박하 (<i>Mentha arvensis</i> var. <i>piperascens</i> Malinv. 꿀풀과)	10
좁현호색 (<i>Corydalis decumbens</i> Pers. 현호색과)	10

Table 2. Most frequently occurring bioactive components in the literature

생리활성성분	주요 생리활성	발견된식물 종수
· β -Sitosterol	혈중지질저하제	45
· Quercetin	항산화, 항암활성, anti-HIV활성	21
· Isoquercitrin	이노작용	19
· Chlorogenic acid	Inhibition of serum triglyceride,	16
· Daucosterol	항종양성, 전립선비대증치료제	16
· Quercitrin	항바이러스, 진경제	16
· Kaempferol	항염작용, 이노작용	15
· Linalool	진경제	14
· Gallic acid	항종양제, 수렴제	13
· Hyperin	혈관확장제, 고혈압치료제	13
· Oleanolic acid	항궤양성	13
· α -Pinene(+,-)	딱정벌레 울음 유발	13
· Scopoletin	진경제	12
· Caffeic acid	항종양, 항HIV, 항산화활성	12
· Luteolin	소염제	12
· Apigenin	독성	12
· Protocatechuic acid	영양화학적저해제	11
· p-Cymene	독성	11
· (+)- β -Pinen	독성, 피부자극	11
· β -Amyrin	항생제	10
· Ursolic acid	이노작용, 항종양성	9
· Eugenol	항진균, 방부제	9
· Astragalin	면역자극	8
· Palmitic acid	독성	7
· Geraniol	피부자극	7
· α -Terpineol	향수성분	7
· (+)-Catechin	설사억제활성, 항궤양, 항산화성	7
· 1,8-Cineole	방부제	7

Table 3. Jeju special plants whose bioactive component is reported in the literature²⁾

제주특산식물	생리활성성분 수
섬오갈피(<i>Acanthopanax koreanum</i> Nakai)	2
솔비나무(<i>Maackia fauriei</i> (lev.) Takeda)	2
왕초피(<i>Zanthoxylum coreanum</i> Nakai)	2
한라민들레(좁민들레, <i>Taraxacum hallaisanense</i> Nakai)	1
제주광나무(<i>Ligustrum lucidum</i> Aiton)	8
삼백초(<i>Saururus chinensis</i> Baill.)	4

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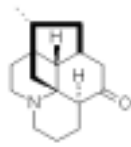
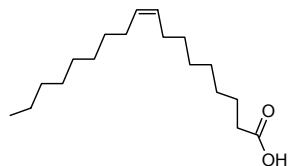
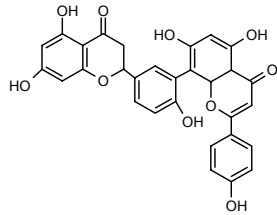
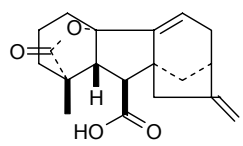
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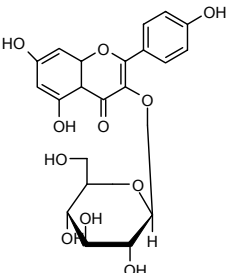
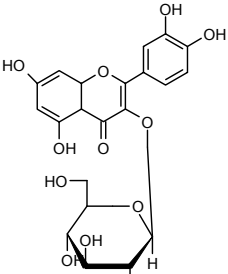
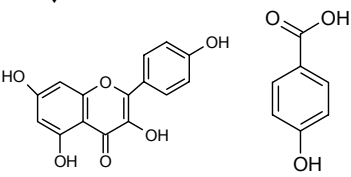
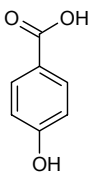
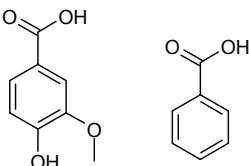
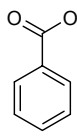
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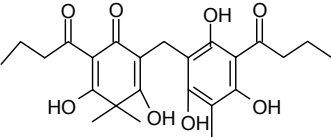
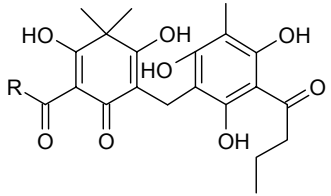
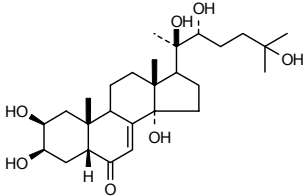
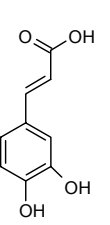
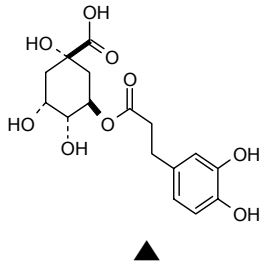
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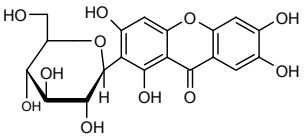
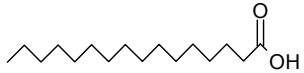
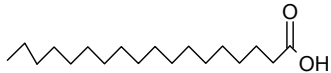
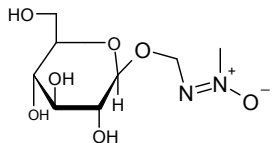

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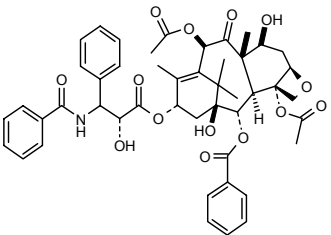
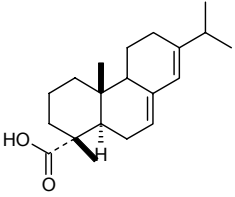
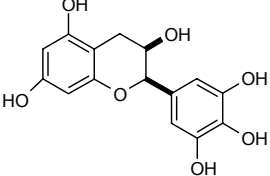
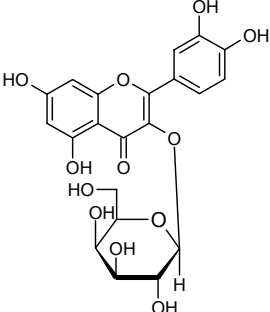
Appendix I. Biological Activity and chemical Component of the Plants growing in Jeju

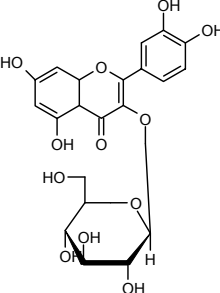
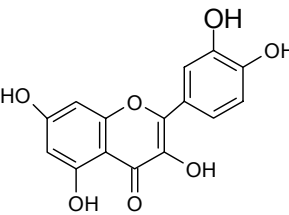
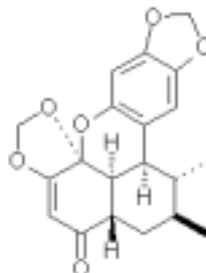
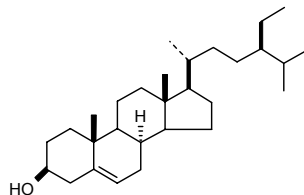
일반명, 학명 (과)	이용부위, 효능	구성 성분	생리활성성분(주요생리활성)
석송 ¹⁵²⁾ <i>Lycopodium clavatum</i> var. <i>nipponicum</i> Nakai (석송과)	전초, 강장제	<ul style="list-style-type: none"> • Lycopodine • Clavatoxine • Oleic acid • Hexadec-9-enoic acid • Sporopollenin 	<ul style="list-style-type: none"> • Lycopodine(독성)  <ul style="list-style-type: none"> • Oleic acid(유화제) 
부처손 ¹⁵¹⁾ <i>Selaginella tamariscina</i> Spring (부처손과)	전초 경 폐(經閉) 타박상, 복통, 천식 혈변(血便), 혈뇨(血尿), 탈항(脫肛)	<ul style="list-style-type: none"> • Amentoflavone • Cryptomerin B • Isocryptomerin • Isocryptomerin 	<ul style="list-style-type: none"> • Amentoflavone(Bradykinin antagonist) 
고사리삼 ¹⁵²⁾ <i>Botrychium ternatum</i> Swartz (고사리삼과)	전초, 혈압강하제 대하 종독(腫毒) 토혈(吐血)	<ul style="list-style-type: none"> • Flavonoid류 • Amino acid • Elaeoplastin 	
실고사리 ¹⁵²⁾ <i>Lygodium japonicum</i> (Thunb.) Sw. (실고사리과)	전초 뇨도염 뇨로결석 백탁 신장 간염	<ul style="list-style-type: none"> • 12-α-Hydroxygibberellin A9 • 12-β-Hydroxygibberellin A9 • Gibberellin A-73 • Gibberellin A9 · methyl ester • Gibberellin A20 	<ul style="list-style-type: none"> • Gibberellin A-73(식물생장 호르몬) 

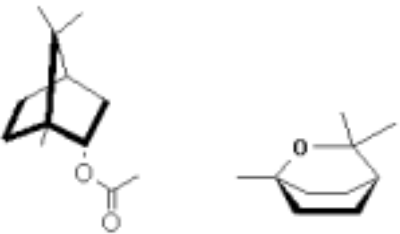
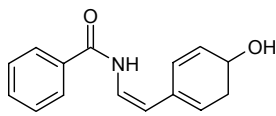
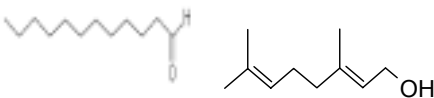
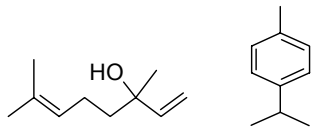
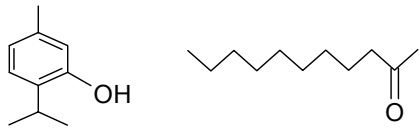
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>고사리¹⁵¹⁾ <i>Pteridium</i> <i>aquilinum</i> var. <i>latiusculum</i> (Desv.) Underw. (고사리과)</p>	<p>전초</p> <p>청열(淸熱), 활장(滑腸), 강기(降氣), 화담(化痰), 보오장부족 (補五臟不足)</p>	<ul style="list-style-type: none"> • Astragalin • Benzoic acid • Dactylifric acid • Glutamic acid • Glutamine • Isoquercitrin • Kaempferol • 5-O-p-Coumaroylquinic acid • Phenylalanine • p-Hydroxybenzoic acid • p-Hydroxystyrene β-D-glucoside • Ptelatoside A, B, C • Pterolactam • Trifolin:6'-O-P-Hydroxy-cinnamoyl • Vanillic acid • Vanillin 	<ul style="list-style-type: none"> • Astragalin (면역자극)  <ul style="list-style-type: none"> • Isoquercitrin (항균작용)  <ul style="list-style-type: none"> • Kaempferol (항염작용, 이노작용)  <ul style="list-style-type: none"> • p-Hydroxybenzoic acid (성장저해, 트립신저해작용)  <ul style="list-style-type: none"> • Vanillicacid (성장저해, 트립신저해작용)  <ul style="list-style-type: none"> • Benzoic acid (방부제, 해열, 거담, 항균작용) 

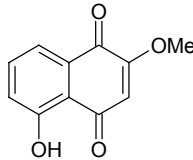
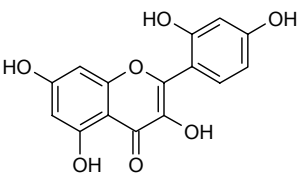
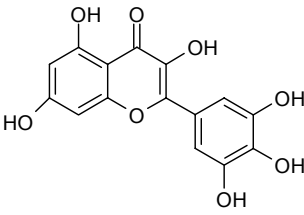
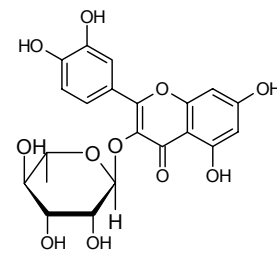
일반명, 학명 (과)	이용부위, 효능	구성 성분	생리활성 성분 (주요 생리활성)
관중 ^{5,151)} <i>Dryopteris crassirhizoma</i> Nakai (면마과)	근경, 전초 회충 토혈 대하 장염출혈 감기 항균 작용	<ul style="list-style-type: none"> • 17-α(H)-Trisnorhop-anone • Campesterol • Diplopterol • Dryocrassin • Dryocrassol • Dryocrassyl acetate • Fernene • Flavaspidic acid • 22(29)-Hopene • Hop-22(29)-ene • Isoadiantone 	<ul style="list-style-type: none"> • Flavaspidic acid (독성)  <ul style="list-style-type: none"> • Flavaspidic acid PB, (R=CH₂CH₃) • Flavaspidic acid AB (R=CH₃) (항균 활성) 
일엽초 ^{6,7,151)} <i>Lepisorus thunbergianus</i> Ching. (고란초과)	전초 임질 이질 토혈 암종	<ul style="list-style-type: none"> • 20-Hydroxy-ecdysone • Caffeic acid • Chlorogenic acid • (-)-Epicatechin • 7-o-β-D-Glucoside(3) • Isovitexin • 7-O-Methyl quercetin • 4-O-β-D-Glycoside 	<ul style="list-style-type: none"> • 20-Hydroxy-ecdysone (갑각류탈피호르몬)  <ul style="list-style-type: none"> • Caffeic acid (항종양, 항HIV, 항산화활성)   <ul style="list-style-type: none"> • Chlorogenic acid (Inhibition of serum triglyceride, lipid peroxides,)

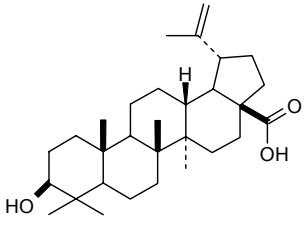
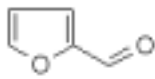
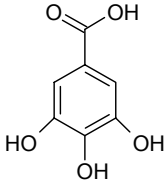
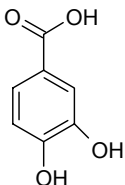
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
석위 ¹⁵¹⁾ <i>Pyrrosia lingua</i> (Thunb.) Farw. (고란초과)	진초 이뇨작용 뇨로결석 신장염 대하	<ul style="list-style-type: none"> • Chlorogenic acid • Cyclohopanediol • 28,29-Cyclo-20 · (30)-hopen-28-ol • 22,28-Epoxyhop-ane • 22,28-Epoxyhopan-29-ol; (22S)-form • 20,24-Epoxy-25,26,27-trinordammaran-24-ol; (20S,24R)-form • 22,29-Hopanediol • 22(29)-Hopen-28-ol • Isomangiferin • Mangiferin 	<ul style="list-style-type: none"> • Chlorogenic acid (Inhibition of serum triglyceride, lipid peroxides) • Mangiferin(독성) 
소철 ¹⁵²⁾ <i>Cycas revoluta</i> Thunb. (소철과)	종자 쥐 복수암 억제효과 통경 수렴약	<ul style="list-style-type: none"> • Palmitic acid • Stearic acid • Choline • Trigonelline • Cycasin • Neocycasin • Macrozamin 	<ul style="list-style-type: none"> • Palmitic acid(독성)  <ul style="list-style-type: none"> • Stearic acid(독성)  <ul style="list-style-type: none"> • Cycasin(독성, 발암성) 
비자나무 ¹⁵²⁾ <i>Taxus nucifera</i> S. et Z. (주목과)	종자, 구충약	<ul style="list-style-type: none"> • Limonene • Torreyal • Nuciferol • Kayaflavone 	<ul style="list-style-type: none"> • Limonene(살충성) 

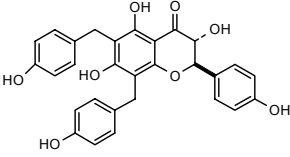
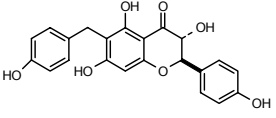
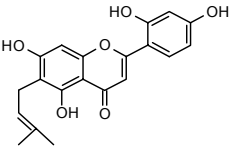
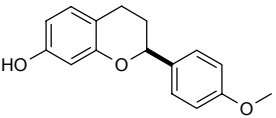
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요 생리활성)
주목 ¹⁵²⁾ <i>Taxus cuspidata</i> S. et Z. (주목과)	잎, 통경 이뇨약 당뇨병 항종양제	<ul style="list-style-type: none"> • Taxine • Taxinine • Taxol • Diterpene • Sciadopytsin • Taxistrone diterpeneo- id 1,2 	<ul style="list-style-type: none"> • TaxolA(항암활성) 
소나무 ¹⁵²⁾ <i>Pinus densiflora</i> S. et. Z (소나무과)	송지, 송화 가루 류머티스신 경토 가려움증	<ul style="list-style-type: none"> • Pinene • Camphene • Pimaric acid • Abietic acid 	<ul style="list-style-type: none"> • Abietic acid(독성) 
목마황 ¹⁾ <i>Casuarina aquisetif- olia</i> L. (목마황과)	수피 지사제	<ul style="list-style-type: none"> • Tannin • Epigallocatechin • Casuarinin 	<ul style="list-style-type: none"> • (-)-Epigallocatechin (괴혈병치료제) 
삼백초 ^{8,9,151)} <i>Saururus chinensis</i> Baill. (삼백초과)	진초 소염 해독 완하 이뇨 진통제 신경손상보 호효과	<ul style="list-style-type: none"> • Hyperoside • Isoquercitrin • Quercetin • Sauchinone • Decanoyl • Acetaldehyde 	<ul style="list-style-type: none"> • Hyperoside (혈관확장제, 고혈압치료제) 

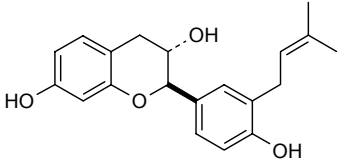
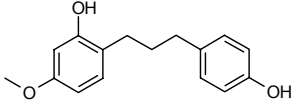
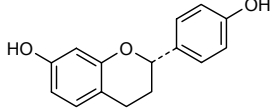
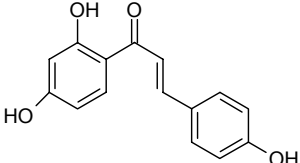
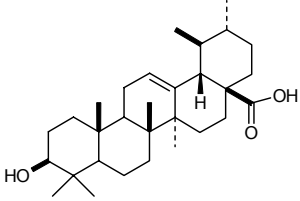
일반명, 학명 (과)	이용부위, 효능	구성 성분	생리활성 성분(주요생리활성)
			<ul style="list-style-type: none"> • Isoquercitrin (이노작용)  <ul style="list-style-type: none"> • Quercetin (항산화, 항암활성, anti-HIV활성)  <ul style="list-style-type: none"> • Sauchinone (진통활성) 
<p>약모밀^{10,151)} (어성초) <i>Houttuyni acordata</i> Thunb. (삼백초과)</p>	<p>전초</p> <p>소염, 해독 완하, 이노 수종, 화농 카드뮴해독</p>	<ul style="list-style-type: none"> • Afzelin • α-Pinene(+,-) • β-Sitosterol • Borneol acetate • Chlorogenic acid • 1,8-Cineole 	<ul style="list-style-type: none"> • β-Sitosterol(혈중지질저하제) 

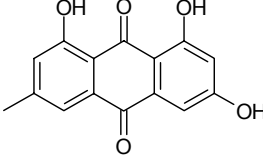
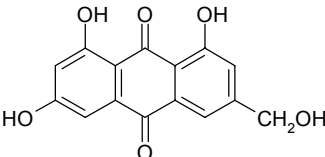
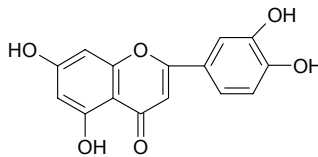
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Dodecan-1-al • Geraniol • Hyperoside • Linalool • p-Cymene • Quercitrin • Thymol • trans-N-(4-Hydroxystyryl)benzamide • trans-N-(4-Hydroxystyryl)-benzamide • Undecan-2-one • cis-N-(4-Hydroxystyryl)benzamide • cis-N-(4-Hydroxystyryl)-benzamide • Decanoyl acetaldehyde 	<ul style="list-style-type: none"> • Chlorogenic acid (Inhibition of serum triglyceride) • Hyperoside(혈관확장제,고혈압치료제) • Borneol acetate(향수) · 1,8-Cineol(방부제) <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <ul style="list-style-type: none"> • cis-N-(4-Hydroxystyryl)benzamide (혈소판응집억제) <div style="display: flex; justify-content: center; align-items: center;">  </div> <ul style="list-style-type: none"> • Dodecan-1-al (독성:피부,눈자극) • Geraniol (피부자극) <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <ul style="list-style-type: none"> • Linalool(진경약) • p-Cymene (독성) <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <ul style="list-style-type: none"> • Thymol (방부제) • Undecan-2-one(독성) <div style="display: flex; justify-content: space-around; align-items: center;">  </div>

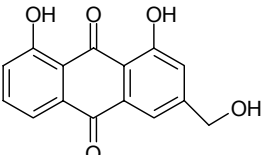
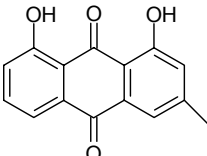
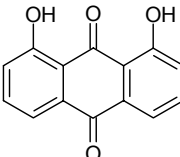
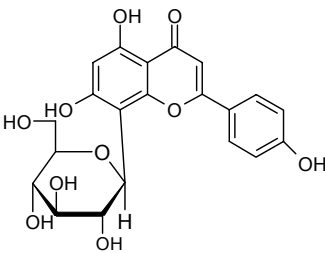
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
소קי나무 ¹⁾ <i>Myrica rubra</i> Sieb.et Zucc (소קי나무과)	수피, 수렴, 이뇨 비소해독 화상피부병	<ul style="list-style-type: none"> • Tannin • Myricitrin • Myricanol • Myricadiol 	
굴피나무 ^{11,12)} <i>Platycarya strobilacea</i> S. et Zucc. (가래나무과)	뿌리, 수피, 잎 소염제 지사제	<ul style="list-style-type: none"> • 5-Hydroxy-2-methoxy-1,4-naphthoquinone • Ursolic acid • Gallic acid • 4,8-Dihydroxy naphthalene • 1-O-β-D-Glucoside • Eriodictyol • Quercetin3-O-(2''-O-galloyl)-β-D-glucoside • Quercetin3-O-(2''-O-galloyl)-β-D-galactoside • Quercetin3-O-α-D-rhamnoside • Quercetin.3'.4'. 5'.5.6.7-hexahydroxyflavone • Morin • Myricetin • Myricitrin • Quercitrin • Afzelin 	<ul style="list-style-type: none"> • 5-hydroxy-2-methoxy-1,4-naphthoquinone(항암활성)  <ul style="list-style-type: none"> • Morin (항산화활성. anti-HIV 활성)  <ul style="list-style-type: none"> • Myricetin(anti-HIV 활성)  <ul style="list-style-type: none"> • Quercitrin(항바이러스, 진경제) 

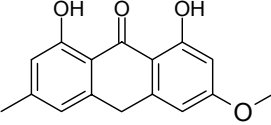
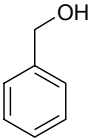
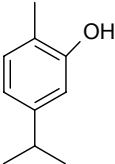
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>오리나무¹⁾ <i>Alnus japonica</i> (Thunberg) Steudal (자작나무과)</p>	<p>수피,과실 해열 화상 동상 비출혈</p>	<ul style="list-style-type: none"> • Lupenone • α-Amyrin • Taraxerol • Betulinic acid • Tannin 	<ul style="list-style-type: none"> • Betulinic acid (항종양활성,세포소멸유발) 
<p>떡갈나무 151) <i>Quercus dentata</i> Thunb. (참나무과)</p>	<p>수피,잎 거충(去蟲) 제루(除漏) 삼오장(澀五臟)</p>	<ul style="list-style-type: none"> • (+)-Catechin • (+)Catechin-(4-α-8)-(+)catechin • Furfural • Gallic acid • Gallocatechin-(4-α-6)-catechin • Gallocatechin-(4-α-8)-catechin • Gallocatechin-(4-α-8)-gallocatechin • Gallotannin • Kaempferol-3-O-(2',6'-di-O-trans-p-coumaroyl-β-D-glucopyranoside) • 3-Methyl-4-hydroxyoctanoic acid-γ-lactone • Mongolicain • 3-O-Digalloyl-1,2,4,6-tetra-O-galloyl-β-D-glucose • 3-O-Galloylepigallocatechin-(4β-8)-catechin • Procyanidin B3 • Protocatechuic acid 	<ul style="list-style-type: none"> • Gallotannin (수렴제,지혈제) • Furfural(항진균성, 살충, 살균작용)  <ul style="list-style-type: none"> • Gallic acid(항종양제, 수렴제)  <ul style="list-style-type: none"> • Protocatechuic acid (영양화학적저해제) 

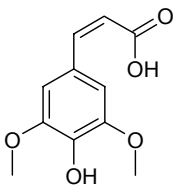
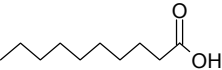
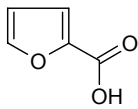
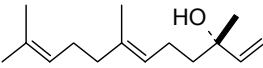
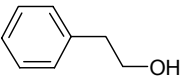
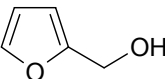
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
참느릅나무 13,14,15) <i>Ulmus pavifolia</i> Jacq. (느릅나무과)	근피, 잎 임질 두창 완하제 완선 소염 진통	<ul style="list-style-type: none"> · Isoquercitrin · Rutin · β-Sitosterol · Campesterol · Stigmasterol · β-Sitosterol-3-O-β-D-glucopyranoside · (+)Catechin 7-O-α-L-rhamnopyranoside 	<ul style="list-style-type: none"> · Isoquercitrin (이뇨작용) · β-Sitosterol (혈중지질저하제)
꾸지뽕나무 16, 151) <i>Cudrania tricuspidata</i> Bur. (뽕나무과)	잎: 습진, 유행성이하선염, 폐결핵, 악성종양 줄기: 崩中, 血結 수피, 근피: 요통, 객혈, 구혈, 타박성 열매: 청열, 양혈	<ul style="list-style-type: none"> · Cudraxanthone · Gericudranin · 3,3',4',5,7-Pentahydroxy-6-(4-hydroxybenzyl)flavanone · 3,3',4',5,7-Pentahydroxy-8-(4-hydroxybenzyl)flavanone · Kaempferol · Kaempferol 7-O-β-D-glucoside · Norathocarpetin · Arthocarpesin 	<ul style="list-style-type: none"> · Kaempferol(항염작용, 이뇨작용) · Gericudranin D (세포독성)  · Gericudranin E (세포독성)  · Arthocarpesin(지질과산화억제) 
꾸지나무 ¹⁵¹⁾ <i>Broussonetia papyrifera</i> (L.) Vent. (뽕나무과)	가지, 잎, 열매 하혈(下血) 혈리(血痢) 혈붕(血崩) 단기(短氣) 수종(水腫)	<ul style="list-style-type: none"> · Betulinic acid · Broussin · Broussinol · Brousochalcone · Brousoflavonol · Broussonin · Demethylbroussin · 4,4'-Dihydroxy-2'-methoxychalcone 	<ul style="list-style-type: none"> · Betulinic acid (항종양활성, 세포소멸유발) · Broussin(항진균성) 

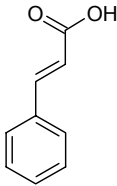
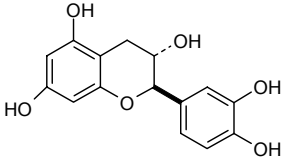
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> · 2-[(3,4-Dihydroxyphenyl)methylene]-6-hydroxy-5-(3-methyl-2-butenyl)-3(2H)-benzofuranone · Genkwanin · Isoliquiritigenin · Kazinol · Marmesin · Spirobroussonin · Spirobroussonin · 4',5,7-Trihydroxy-3',8-diprenylflavonol · Ursolic acid 	<ul style="list-style-type: none"> · Broussinol(항진균성)  <ul style="list-style-type: none"> · BroussoninA (항독성)  <ul style="list-style-type: none"> · Demethylbroussin (항진균성)  <ul style="list-style-type: none"> · Isoliquiritigenin (알도오스 환원 효소저해)  <ul style="list-style-type: none"> · Ursolic acid (이노작용, 항종양성) 

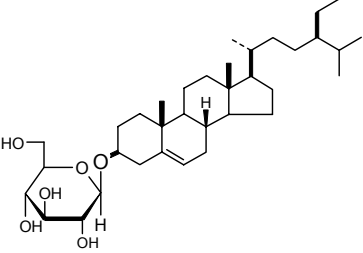
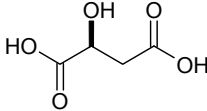
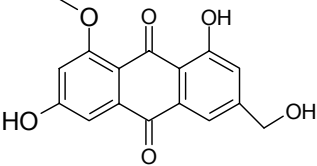
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
환삼덩굴 17, 18) <i>Humulus japonicus</i> Sieb. et Zucc. (뽕 나무 과)	열매 혈압강하 이뇨작용	<ul style="list-style-type: none"> · Ephedrin · Taxodione · Diosgenin · Luteoline · β-Sitosterol · Quercitrin · Luteoline · Luteoline-7-O-β-D-glu- coside 	<ul style="list-style-type: none"> · Diosgenin (소염, 발정촉진성) · β-Sitosterol (혈중지질저하제) · Luteolin(소염제) · Quercitrin (항바이러스, 진경제)
모시풀 ¹⁾ <i>Boehmeria nivea</i> (L.) Gaudich. (쑤기풀과)	뿌리, 지혈 이뇨작용	<ul style="list-style-type: none"> · Emodin · Physcion-8-glucoside · Chlorogenic acid · Apigenin-rhamnoglucoside · Rhoifoline 	<ul style="list-style-type: none"> · Emodin(항균, 항종양성)  <ul style="list-style-type: none"> · Chlorogenic acid (serum triglyceride저해)
애기수영 ¹⁹⁾ <i>Rumex acetosella</i> L. (마디풀과)	전초, 뿌리 청열(淸熱) 양혈(涼血) 항암 폐결핵 객혈(咯血)	<ul style="list-style-type: none"> · Emodin · Citreorosein · Chrysophanol-8-O-β-D- glucopyranoside · Luteolin · Glucoluteolin 	<ul style="list-style-type: none"> · Emodin(항균성, 항종양성) · Citreorosein(1,6,8-trihydroxy-3-hydroxymethyl anthraquinone) (cAMP phosphodiesterase inhibitor)  <ul style="list-style-type: none"> · Luteolin(2-(3,4-dihydroxy phenyl)-5,7-dihydroxy-4H-1-benzopyrane-4-one) (소염, 진해, 진경작용) 

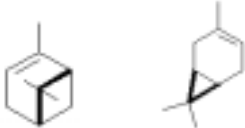
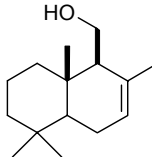
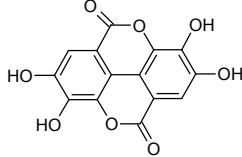
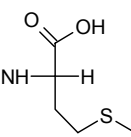
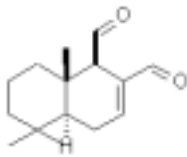
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
수영 ¹⁵¹⁾ <i>Rumex acetosa</i> L. (마디풀과)	뿌리 청열(淸熱) 양혈(涼血) 피부병 토혈(吐血)	<ul style="list-style-type: none"> · Aloe emodin · Avicularoside · β-Sitosterol · 6-C-Glucopyranosyl-3',4',5,7-tetrahydroxyflavone · Chrysophanic acid · Chrysophanicacid-8-O-β-D-glucopyranoside · 1,8-Dihydroxyanthraquinone · 1,8-Dihydroxy-3-methyl-9-anthrone · 2',6'-Di-O-acetylisorientin · 2',6'-Di-O-acetylorientin · Emodin · Emodin anthrone · Emodin-1-O-β-D-glucopyranoside · Hyperoside · Nepodin · Neposide · 2'-O-Acetylisorientin · omega-Acetoxyaloe-emodin · Orientin · Oxalic acid · Phycion anthrone · Phycion-1-O-β-D-glucopyranoside · Phycion-8-O-β-D-glucopyranoside · Quercitrin · Rumex acetosa polysaccharide · Vitexin 	<ul style="list-style-type: none"> · β-Sitosterol (혈중지질저하제) · Emodin(항균성, 항종양성) · Quercitrin (항바이러스, 진정제) · Hyperoside (혈관확장제, 고혈압치료제) · Aloe emodin(독성)  <ul style="list-style-type: none"> · Chrysophanic acid (항균성, 하제)  <ul style="list-style-type: none"> · 1,8-Dihydroxyanthraquinone (하제)  <ul style="list-style-type: none"> · Vitexin(독성) 

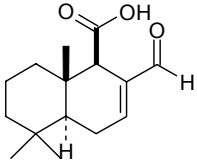
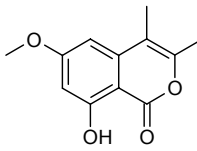
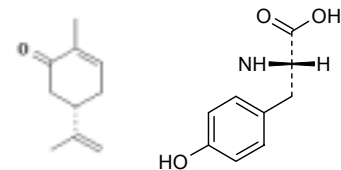
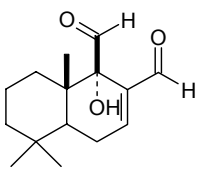
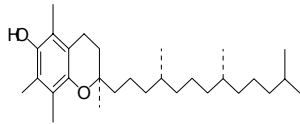
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
			<ul style="list-style-type: none"> · Physcion anthrone (독성) 
<p>참소리쟁이¹⁵¹⁾ <i>Rumex japonicus</i> Houtt. (마디풀과)</p>	<p>뿌리 황달 피부병</p>	<ul style="list-style-type: none"> · Acetic acid · α-Pinene(+,-) · α-Terpineol · Benzaldehyde · Benzoic acid · Benzyl alcohol · (+)-β-Pinene · Carvacrol · Chrysophanic acid · cis-Sinapic acid · Decanoic acid · 1,2-Diacetin · Dodecanol acetate · Emodin · Furan-2-carboxylic acid · Furfural · Furfuryl alcohol · Lauric acid · Linalool · m-Cresol · Nepodin · Nerolidol · o-Cresol 	<ul style="list-style-type: none"> · (+)-β-Pinene (독성, 피부자극) · α-Terpineol (향수성분) · Benzoic acid (방부, 해열, 거담, 항균 작용) · Emodin(항균성, 항종양성) · Chrysophanicacid (항균성, 하제) · Furfural (항진균성, 살충, 살균 작용) · Linalool(진경약) · Palmitic acid(독성) · Thymol (방부제) · Quercitrin(항바이러스, 진경제) · Benzyl alcohol(항균방부제) · Carvacrol(독성, 피부자극)  

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Octan-1-ol • Palmitic acid • p-Cresol • Phenol • 2-Phenylethanol • Propionic acid • Quercitrin • Thymol 	<ul style="list-style-type: none"> • cis-Sinapic acid (트립신저해) <div style="text-align: center; margin: 5px 0;">  </div> • Decanoic acid(피부자극) <div style="text-align: center; margin: 5px 0;">  </div> • Furan-2-carboxylic acid (독성) <div style="text-align: center; margin: 5px 0;">  </div> • Nerolidol(향수성분) <div style="text-align: center; margin: 5px 0;">  </div> • 2-Phenylethanol(향균성) <div style="text-align: center; margin: 5px 0;">  </div> • Furfuryl alcohol (피부,코,목구멍자극) <div style="text-align: center; margin: 5px 0;">  </div>

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
호장근 ^{20, 21, 151)} <i>Polygonum cuspidatum</i> Sieb.et Zucc. (마디풀과)	뿌리 경폐(經閉) 대열(大熱) 대하(帶下) 무좀 방광염 요도염 항충치균 지질과산 화역제	<ul style="list-style-type: none"> • 6-Acetyl-2-methoxy-7-methyljuglone • Aglycone A • Aloe emodin • Bisade • (+)-Catechin • Chrysophanic acid • Cinnamic acid • Citreorosein • Citric acid • Daucosterol • Emodin • Emodin monomethylether • Emodin-8-O-β-D-glucopyranoside • Fallacinol • Gallic acid • Gallotannin • 7-Hydroxy-4-methoxy-5-methylcoumarin • Isoquercitrin • Kaempferol • L-Malicacid (S-form) • L-Tartaricacid(2R,3R-form) • Myricetin • Oxalic acid • Phycion-8-O-β-D-gentiobioside • Phycion-8-O-β-D-glucopyranoside 	<ul style="list-style-type: none"> • Gallic acid (항종양제, 수렴제) • Gallotannin(수렴제, 지혈제) • Kaempferol (항염작용, 이노작용) • Isoquercitrin (이노작용) • Myricetin(항 HIV활성) • Protocatechuic acid (영양화학적저해제) • Emodin (항균성, 항종양성) • Aloe emodin(독성) • Cinnamic acid(마취성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • (+)-Catechin (항설사활성, 항궤양성분) <div style="text-align: center;">  </div>

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Piceid • Polydatogenol • Polydatoside • Polygonin • Protocatechuic acid • Quercetin • Quercetin-3-O-β-D-xyl opyranoside • Quercitrin • Questin • Questinol • Resveratrol • 2,3,4',5-Tetrahydroxysti- lbene • Torachryson-8-O-β-D -glucoside 	<ul style="list-style-type: none"> • Daucosterol (항종양성,전립선비대치료제)  <ul style="list-style-type: none"> • L-Malic acid (S-form) (독성)  <ul style="list-style-type: none"> • Questinol(cAMPphosphodiesterase inhibitor) 
<p>여뀌^{151, 152)} <i>Polygonum hydropiper</i> L. (마디풀과)</p>	<p>전초 위장염 혈뇨 해열 이뇨</p>	<ul style="list-style-type: none"> • Alanine • 11-α-Ethoxy-cinnamol- ide • α-Pinene(+,-) • Arginine • Artecamin • Aspartic acid • (+)-β-Pinene • β-Sitosterol • Borneol acetate • 3-Carene • Chlorophyll • 1,4-Cineole • Cinnamic acid methyl ester • Cinnamyl alcohol 	<ul style="list-style-type: none"> • Isoquercitrin (항균작용) • Kaempferol (항염작용, 이뇨 작용) • β-Sitosterol (혈중지질저하제) • Hyperoside (혈관확장제,고혈압치료제) • Quercetin (항산화, 항암활성,anti-HIV 활성) • Borneol acetate (향수) • p-Cymene (독성) • Gallic acid (항종양제, 수렴제) • Gallotannin (수렴제,지혈제)

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Confertifolin • Daucosterol • 3,3'-Di-O-methylellagic acid • Drimenol • Ellagic acid • Fuegin • Gallic acid • Gallotannin • γ-Aminobutyric acid • Glutamic acid • Hydropiperoside • Hyperoside • Isodrimeninol • Isopolygodial • Isopolygonal • Isoquercitrin • Isorhamnetin • Isotadeonal • Kaempferol • L-Malic acid (S-form) • Lysine(S-form,L-form) • Melissic acid • Methionine • Myricetin • p-Cymene • Persicarin • Persicarin-7-methyl ether • Polygodial • Polygodial acetal 4a • Polygodialacetal4b(polygodial acetal4a-isomer) 	<ul style="list-style-type: none"> • (+)-β-Pinen (독성,피부자극) • Daucosterol (항종양성,전립선비대치료제) • Butyric acid(피부, 눈자극) • α-Pinen(+,-) (딱정벌레울음유발) <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <ul style="list-style-type: none"> • 3-Carene (피부자극) • Drimenol (식물 성장조절) <div style="display: flex; justify-content: center; align-items: center;">  </div> <ul style="list-style-type: none"> • Ellagic acid(항산화,항종양활성) <div style="display: flex; justify-content: center; align-items: center;">  </div> <ul style="list-style-type: none"> • Methionine ▼ (항괴양,해독성) <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <ul style="list-style-type: none"> • Polygodial ▲ (곤충,식물성장조절,항진균성)

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요 생리활성)
		<ul style="list-style-type: none"> · Polygonal · Polygonic acid · Polygonolide · Polygonone · Proline(S-form,L-form) · Quercetin · Quercimeritrin · Quercitrin · Rhamnazin · (S)-(+)-Carvone · Serine · Stigmasterol · Tadenal · Tadeon; diketo · Tamarixin 7-sulfate · Threonine(2S, 3R) · (-)-Tyrosine (S-form) · Valdiviolide · Valerianic acid · Valine · Warburganal 	<ul style="list-style-type: none"> · Polygonic acid (향진균, 항바이러스성)  <ul style="list-style-type: none"> · Polygonolide (소염제)  <ul style="list-style-type: none"> · (S)-(+)-Carvone ▼(구풍제, 살충제)  <ul style="list-style-type: none"> · (-)-Tyrosine (S-form)▲ (기형발생효과) · Warburganal (세포파괴성) 
<p>마디풀^{22, 23, 151)} <i>Polygonum aviculare</i> L. (마디풀과)</p>	<p>전초 이뇨, 청열 황달 간보호활성</p>	<ul style="list-style-type: none"> · Alanine · α-Tocopherol · Arginine · Aspartic acid · Avicularine · Avicularoside · Cystine (RR)-form · Gallic acid 	<ul style="list-style-type: none"> · Gallic acid(항종양제, 수렴제) · Methionine(항게양, 해독성) · α-Tocopherol (수정축진, 항산화성) 

일반명, 학명 이용부위,
(과) 효능

구성성분

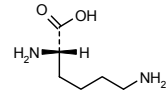
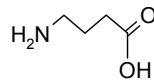
생리활성성분(주요생리활성)

- γ -Aminobutyric acid
- Glutamic acid
- Isolariciresinol 9'-rhamnoside
- Juglanine
- Kaempferol
- Leucine
- Lysine (S-form, L-form)
- Methionine
- Myricetin-3-O-rhamnopyranoside
- Phenylalanine
- Proline (S-form, L-form)
- Quercetin
- Quercitrin
- Serine
- Threonine(2S, 3R)
- (-)-Tyrosine (S-form)
- Valine

- Kaempferol(항염, 이노작용)

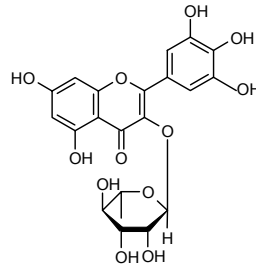
- γ -Aminobutyric acid

▼(항고혈압제)

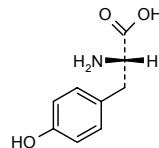


- Lysine (S-form, L-form) ▲
(기형발생효과)

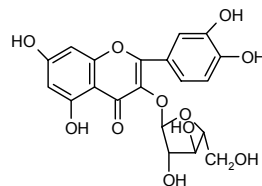
- Myricetin-3-O-rhamnopyranoside
(항박테리아, 살정자제)



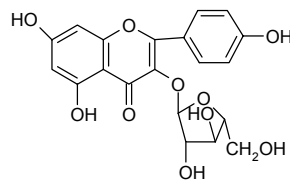
- (-)-Tyrosine(기형발생물질)

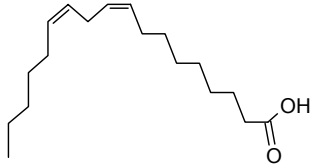
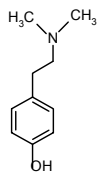
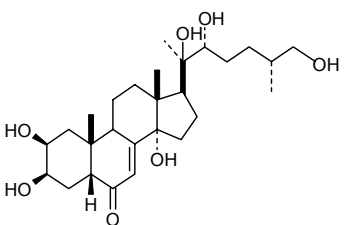


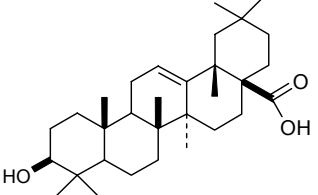
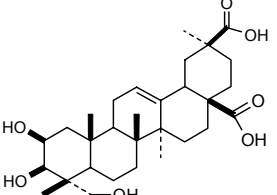
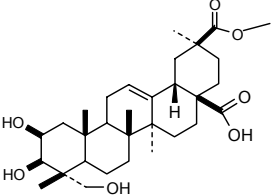
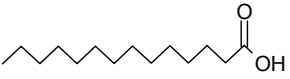
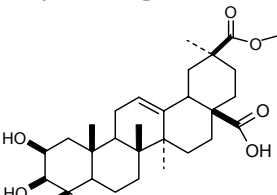
- Avicularin(간보호활성)

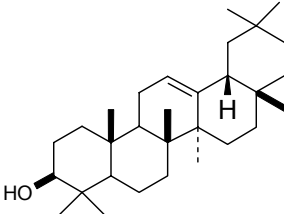
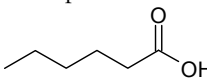
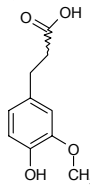
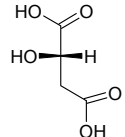
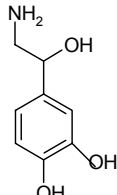


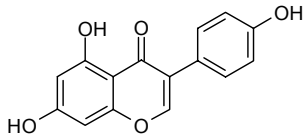
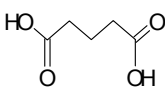
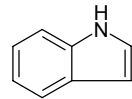
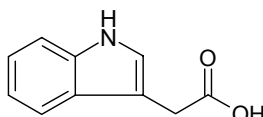
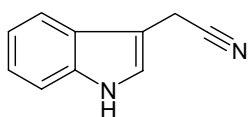
- Juglanine(간보호활성)

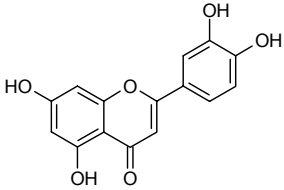
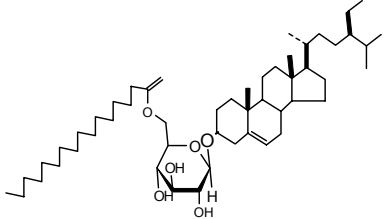
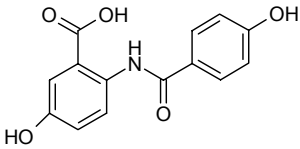
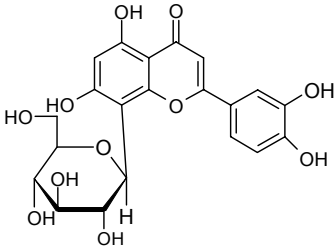


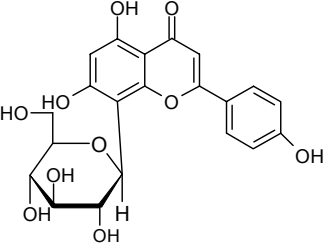
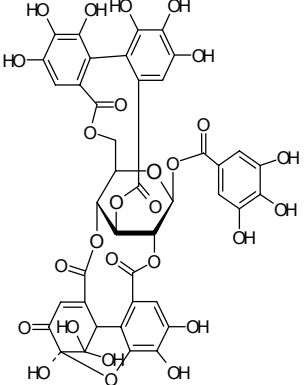
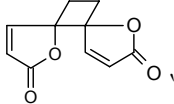
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
명아주 ²⁴⁾ <i>Chenopodium album</i> L. var. (명아주과)	잎, 건위,강장약 혈압강하 말초혈관수축 이뇨작용	<ul style="list-style-type: none"> · Vitamin A,B,C · Oleic acid · Palmitic acid · Linoleic acid · Lignoceric acid · Carnubic acid · Sitosterol · Betain · Leucin 	<ul style="list-style-type: none"> · Oleic acid(유화제) · Palmitic acid(독성) · Linoleic acid(위장보호) 
땃싸리 ²⁵⁾ <i>Kochia scoparia</i> Schrid (명아주과)	과실,종자,전초 이뇨 습진 소양증	· Dapsidoside F, G, H, I	
비름 ^{26, 151)} <i>Amaranthus mangostanus</i> L. (비름과)	전초, 양혈,지혈 이질	<ul style="list-style-type: none"> · Vitamin C · Rutin 	
개맨드라미 ¹⁵¹⁾ <i>Celosia argentea</i> L. (비름과)	종자, 강장 소염,해열제	<ul style="list-style-type: none"> · α-Spinasterol · Ancistrocladine · β-Sitosterol · Hordenine · Protein (<i>Celosia argentea</i>) 	<ul style="list-style-type: none"> · β-Sitosterol (혈중지질저하제) · Hordenine (살균,이뇨제) 
쇠무릎 ¹⁵¹⁾ <i>Achyranthes japonica</i> Nakai (비름과)	뿌리, 신경통 관절통	<ul style="list-style-type: none"> · Inokosterone · Oleanolic acid · Protocatechuic acid · Protocatechuic ethyl ester · Ursolicacid 	<ul style="list-style-type: none"> · Inokosterone (진통,곤충탈피호르몬) 

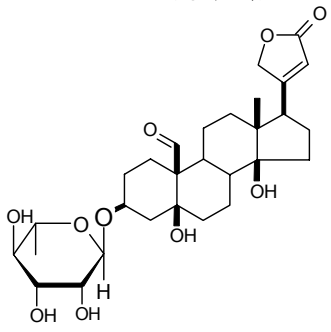
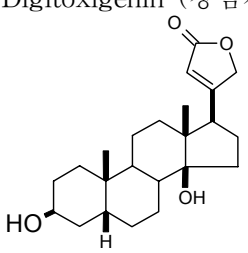
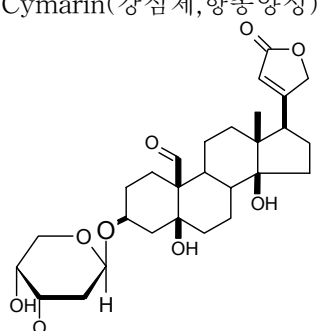
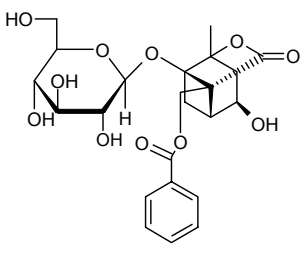
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
			<ul style="list-style-type: none"> • Protocatechuic acid (영양화학적저해제) • Ursolic acid (이노작용, 항종양성) • Oleanolic acid (항케양성) 
자리공 ¹⁵¹⁾ <i>Phytolacca esculenta</i> V. Houtte (자리공과)	뿌리, 이노제	<ul style="list-style-type: none"> • 3-Acetylaleuritolic acid • Acinosolic acid; 28-Me ester • α-Spinasterol • 3β,23-Dihydroxy-12-oleanene-28,30-dioic acid • Esculentagenic acid • Esculentagenin • Esculentoside • γ-Aminobutyric acid • Jaligonic acid • Jaligonic acid Methyl Ester • Myricadiol-3-acetate • Myristic acid • 3-O-β-D-Glucopyranosyl-α-spinasterol • Phytolaccagenin • Phytolaccoside G • Pokeberrygenin • Spinasteryl-3-O-α-[(6'-palmityl)-β-D-glucoside] • Stearic acid • Stigmast-7-en-3-β-ol;(3-β,5-α,24R)-form • Tirucalla-7,24-dienol 	<ul style="list-style-type: none"> • Stearic acid (피부독성) • Jaligonic acid (소염제, 이노제) • Jaligonic acid Methyl Ester (소염제) • Myristic acid (피부, 눈독성) • Phytolaccagenin(소염제)    

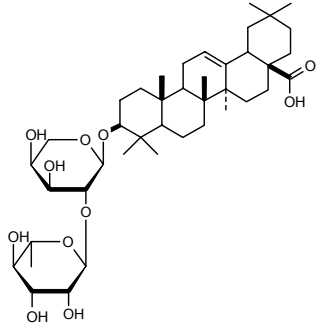
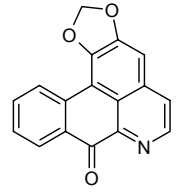
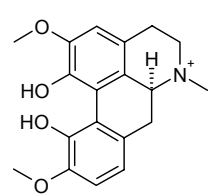
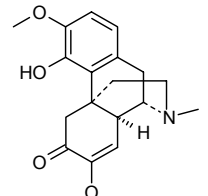
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
번행초 ¹⁾ <i>Tetragonia</i> <i>tetragonides</i> (Pall.) O.Kuntz (석류풀과)	전초, 위통,해독 해열 항암제		
쇠비름 ¹⁵¹⁾ <i>Portulaca</i> <i>oleracea</i> L. (쇠비름과)	전초, 해독 이뇨제 건위 방광염	<ul style="list-style-type: none"> · Alanine · Aspartic acid · Behenic acid · β-Amyrin · β-Sitosterol · Campesterol · Caproic acid · Ferulic acid · Isopalmitic acid · Lauric acid · Linolenic acid · L-Malic acid (S-for · Malic acid · Myristic acid · Norepinephrine · Oleic acid · Oxalic acid · Pachyman · Phorbic acid · Poriacocos polysaccha ride H-11 · Portulaca polysacchar -ide IB · Portuloside A · Stearic acid · Stigmasterol · Vitamin C 	<ul style="list-style-type: none"> · β-Sitosterol (혈중지질저하제) · Poriacocos polysaccharide H-11 (항종양성) · β-Amyrin(항생제)  <ul style="list-style-type: none"> · Caproic acid  <ul style="list-style-type: none"> ▼ · Ferulic acid(항산화, 항종양성)   <ul style="list-style-type: none"> · Malic acid (피부,눈자극)▲ · Norepinephrine (기관지확장제,교감신경흥분제) 

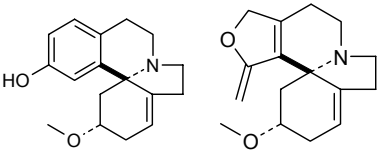
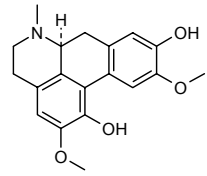
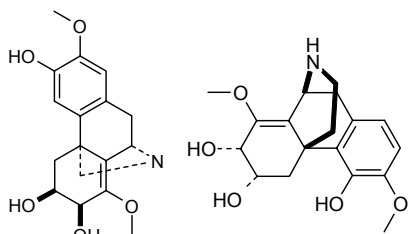
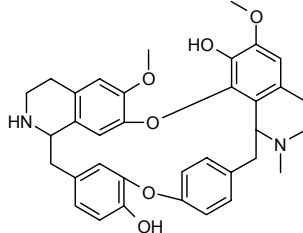
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
큰개별꽃 ^{27,28)} <i>Pseudostellaria palibiniana</i> Ohwi (석죽과)	지상부, 삼장흥분작용 혈압강하 항암작용	• Isovitexin (6-C-D-Glucopyranosyl apigenin)	
별꽃 ¹⁵¹⁾ <i>Stellaria media</i> (L.) Cyr. (석죽과)	전초, 정혈 이뇨 최유약	<ul style="list-style-type: none"> • 2-Amino adipic acid • Apigenin • Behenic acid • Caffeic acid • Chlorogenic acid • Decane-1,10-dioic acid • 6,7-Dimethylheptacosane • 3-Dotetracontene-1,5-di- ol; 5-Ac • Ferulic acid • Genistein • Glutaric acid • Heptane-1,7-dioic acid • Hexacosanoic acid • Hexane-1,6-dioic acid • 11-Hydroxyundecanoic acid • Indole • Indole-3-acetic acid • Indole-3-acetonitrile • Isovitexin-2',7-di-O-β- D-gluco • Luteolin • Nonane-1,9-dioic acid • Nonanol • Octacosanoic acid • Palmitic acid • Pentadecanoic acid • Pentadecanol • Pentane-1,5-dioic acid • p-Hydroxybenzoic acid • Saccharopine 	<ul style="list-style-type: none"> • Caffeic acid (항산화활성) • Chlorogenic acid (Inhibition of serum triglyceride) • Ferulic acid (항산화, 항종양성) • Vanillic acid (생장억제, 트립신저해) • Palmitic acid (독성) • Genistein(항진균제)  <ul style="list-style-type: none"> • Glutaric acid(독성) <p>▼</p>   <ul style="list-style-type: none"> • Indole (독성) ▲ • Indole-3-acetic acid(식물생장호르몬)  <ul style="list-style-type: none"> • Indole-3-acetonitrile(항종양성) 

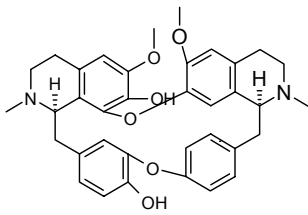
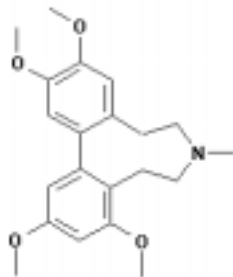
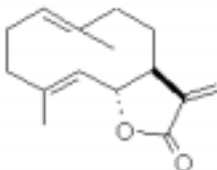
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Skatole • Stearic acid • Succinic acid • Tetracosanoic acid • Tricosanoic acid • Tryptophan • Undecane-1,11-dioic acid • Vanillic acid • Vicenin 2 • Vitamin C 	<ul style="list-style-type: none"> • Luteolin(소염제) 
<p>패랭이꽃^{31, 151)} <i>Dianthus chinensis</i> L. (석죽과)</p>	<p>꽃, 전초 소염 이뇨제 임질치료 자궁수축작용</p>	<ul style="list-style-type: none"> • Chrysoeriol-7-O-β-D-glucopyranoside • Dianchinenoside • Meloside A • 6-O-Palmitoyl-gluco-pyranosyl(1-3)-β-sitosterol 	<ul style="list-style-type: none"> • 6-O-Palmitoyl-gluco-pyranosyl(1-3)-β-sitosterol (항퀘양성) 
<p>장구채^{29, 151)} <i>Melandry-firmum</i> (S.et Z)Rohrb (석죽과)</p>	<p>전초, 해열 이뇨 월경불순</p>	<ul style="list-style-type: none"> • Acaciin • (-)-α-Copaene • α-Santalol; (7R,10Z)-form • 3-β,16-α-Dihydroxy-23-oxo-olean-13(18)-en-28-oic acid • Cachimoside • 6-C-Glucopyranosyl-3',4',5,7-tetrahydroxyflavone • Gypsogenic acid • Gypsogenin • Hinokiol • 5-Hydroxy-N-p-hydroxy-benzoylanthranilic acid • Melandrigenin • Melandrin • Melandriocide A 	<ul style="list-style-type: none"> • 5-Hydroxy-N-p-hydroxy-benzoylanthranilic acid (Phytoalexin) • Orientin(독성)  

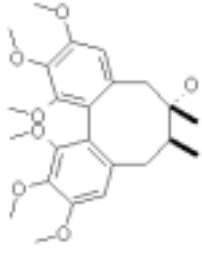
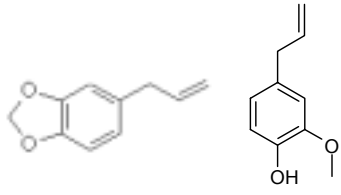
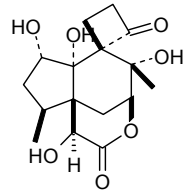

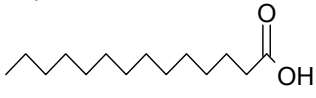
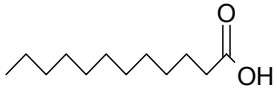
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • 3-O-β-D-Glucopyranosyl-1-α-spinasterol • 3-O-β-D-Glucuronopyranosyl-melandrigenin methyl ester • Orientin • Saponaretin • Schaftoside • Vitexin • Linarin • schaftoside 	<ul style="list-style-type: none"> • Vitexin(독성) 
수련 ¹⁵¹⁾ <i>Nymphaea tetragona</i> Georgi (수련과)	열매, 청서(淸暑) 해성(解醒)	<ul style="list-style-type: none"> • Geraniin 	<ul style="list-style-type: none"> • Geraniin (protein kinase C 저해) 
으아리 ¹⁵¹⁾ <i>Clematis mandshurica</i> Rupr. (미나리아재비과)	뿌리, 신경통 통풍 근육통	<ul style="list-style-type: none"> • Anemonin • Clematoside C • Oleanolic acid 	<ul style="list-style-type: none"> • Oleanolic acid (항궤양성) • Anemonin (항종양, 항박테리아활성) 
미나리아재비 ¹⁵²⁾ <i>Ranunculus japonicus</i> Thunb (미나리아재비과)	전초, 농중 살충 발포약	<ul style="list-style-type: none"> • 5-Methylene-2(5H)furanone • Anemonin • Protoanemonin 	<ul style="list-style-type: none"> • Anemonin (항종양, 항박테리아활성)

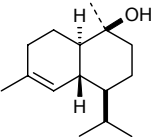
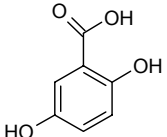
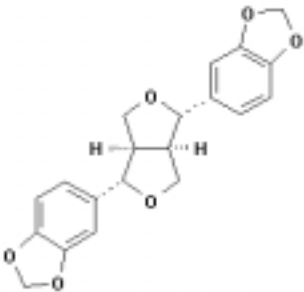
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>복수초^{30, 151)} <i>Adonis amurensis</i> Regel et Radde (미나리재비과)</p>	<p>뿌리, 강심 이뇨제</p>	<ul style="list-style-type: none"> · Strophanthidin · Adonitoxin · Cymarin · Adonilide · Benzoyl-lineolone · Convallatoxin · Digitoxigenin · Fukujusone · Fukujusonorone · Isolineolone · Nicotinoyl-isolineolone · Somalin · K-strophanthin 	<ul style="list-style-type: none"> · Convallatoxin(강심제)  · Digitoxigenin (강심제)  · Cymarin(강심제, 항중양성) 
<p>백작약^{33, 152)} <i>Paeonia japonica</i> Miyabe et Takeda (작약과)</p>	<p>뿌리, 진통 진경 통경 수면연장효과 해열작용</p>	<ul style="list-style-type: none"> · Benzoylpaeoniflorin · Albiflorin · p-Aeoniflorin · Benzoic acid · Tannin 	<ul style="list-style-type: none"> · Albiflorin(진경제) 

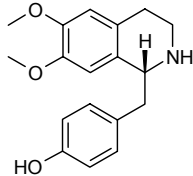
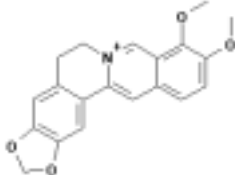
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요 생리활성)
<p>으름덩굴¹⁵¹⁾ <i>Akebia</i> <i>quinata</i> Decne. (으름덩굴과)</p>	<p>줄기, 이뇨제 부종 신장염 요도염</p>	<ul style="list-style-type: none"> • Akebia saponin A, B, C, D, E, F, G • Akebin • Akebonoic acid • Akeboside Sth, Stj, Stk • 3-α-Akebonoic acid • Arjunolic acid • β-Sitosterol • Cyanidin-3-p-coumaroylg1-u copyranoside • Eleutheroside K • Hederasaponin B • Hedragenin • Mesembryanthemoidigenic acid • Norarjunolic acid • Oleanolic acid • Percarp saponin J2, C, G, J3, K • Quillaic acid • Quinatic acid • Quinatoside A, B, C, D • Stigmasterol 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Eleutheroside K (진통, 소염, 이뇨, 콜레스테롤 저하작용) 
<p>방기^{32, 151)} <i>Sinomenium</i> <i>acutum</i> Rehd. et Wils. (방기과)</p>	<p>줄기, 근경 소염 이뇨 진통 항균성</p>	<ul style="list-style-type: none"> • Acutumidine • Acutumine • 5,6,7,7a-Tetrahydro-6-hydroxy-2(4H)-benzofuranone • Dihydromenisdaurilide • Disinomenine • dl-Sinactine • Liriodenine • Magnoflorine • N-Demethyl-N-formyldehydroroniciferine • Sinactine • Sinoacutine ((-)-form) • Sinomendine • Sinomenine • Sinomenium-alkaloid FK-2000 • Stepholidine (S-form) • Syringaresinol • Tuduranine 	<ul style="list-style-type: none"> • Liriodenine (항종양성)  • Magnoflorine (약한 독성, 혈압강하제)  • Sinomenine (과량으로 유산제) 

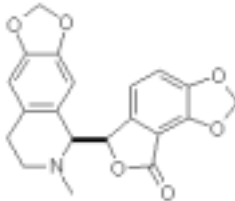
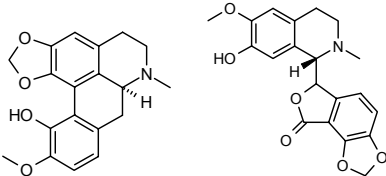
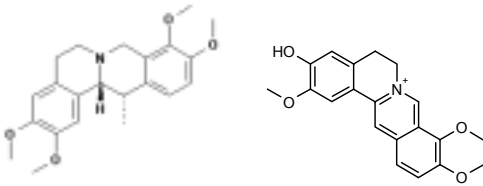
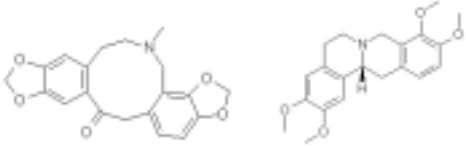
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>땃땃이덩굴¹⁵¹⁾ <i>Cocculus trilobus</i> (Thunb.) DC. (방기과)</p>	<p>목부, 이뇨 진통 해열</p>	<ul style="list-style-type: none"> • Aristolic acid • Cocculine • Cocculolidine • Coccutrine • 1,2-Dehydroapateline • Dihydroerysovine • Isoboldine; (S)-form • Isosinococuline • Isotrilobine ((+)-form) • Isotrilobine N(2)-Oxide • Menisidine • Menisine • Neotrilobine • Normenisarine • Nortrilobine • Sinococuline • Trilobamine • Trilobine 	<ul style="list-style-type: none"> • Trilobine (경련제) • Cocculine (혈압강하제) ▼  • Cocculolidine(살충제)▲ • Isoboldine; (S)-form (Antifeedant, 살충성)  • Isosinococuline(항종양제) ▼  • Sinococuline (항종양활성) ▲ • Trilobamine (혈관확장제, 부종제) 

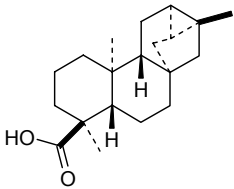
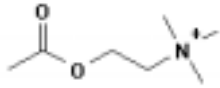
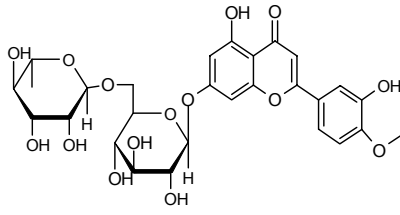
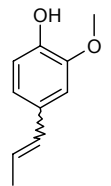
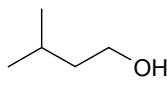
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
함박이 ¹⁵¹⁾ <i>Stephania</i> <i>Japonica</i> Miers (방기과)	줄기, 근경 해열 진경	<ul style="list-style-type: none"> • Epistephamiersine • Epistephanine; (R)-form • Hasubanonine; (-)-form • Homostephanoline • Hypoepistephanine • Insularine • Metaphanine; (-)-form • Miersine • Obamegine • Oxoepistephamiersine • 16-Oxohasubanonine • 16-Oxoprometaphanine • Oxostephabenine • Oxostephamiersine • Oxostephanine • Oxostephasunoline • Prometaphanine • Prostephanaberrine • Protostephanine • Stebisimine • Stephabenine • Stephdiamine • Stephamiersine • Stephanine; (R)-form • Stephasunoline • Stepinonine • Steponine 	<ul style="list-style-type: none"> • Obamegine (항종양제)  <ul style="list-style-type: none"> • Protostephanine (항고혈압제) 
함박꽃나무 ³⁴⁾ <i>Magnolia</i> <i>sieboldii</i> K. Koch (목련과)	잎, 수피	<ul style="list-style-type: none"> • Costunolide • Syringin • Syringenin 4-O-cellobioside • Echinacoside • Magnoporphine • 15-Acetoxy costunolide 	<ul style="list-style-type: none"> • Costunolide(항종양활성) 

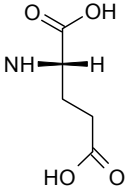
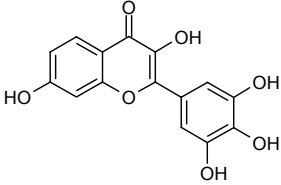
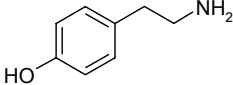
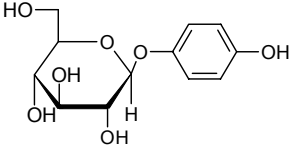
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
남오미자 ¹⁾ <i>Kadsura japonica</i> (Thunberg) Dunal (오미자나무과)	과실 자양강장 진해 거담제	<ul style="list-style-type: none"> • Kadsulignan • Schizandrin 	<ul style="list-style-type: none"> • Schizandrin(간세포독소억제제) 
붓순나무 ¹⁾ <i>Illicium religiosum</i> Sieb.et.Zucc (붓순나무과)	과실 살충제	<ul style="list-style-type: none"> • Safrole • Eugenol • Anethole • Anisatin • co-Anisatin • Pseudoanisatin 	<ul style="list-style-type: none"> • Safrole(마취제) • Eugenol(항진균, 방부제)  <ul style="list-style-type: none"> • Anisatin(경련독) 
생강나무 ¹⁵²⁾ <i>Lindera obtusiloba</i> Blume (녹나무과)	수피, 활혈 소종작용	<ul style="list-style-type: none"> • Camphor • β-Eudesmol • Linderin acid • Tudzuic acid • Capric acid • Myristic acid • Lauric acid 	<ul style="list-style-type: none"> • (+)Camphor(진통, 강장, 소양)  <ul style="list-style-type: none"> • Myristic acid(독성)  <ul style="list-style-type: none"> • Lauric acid(독성) 

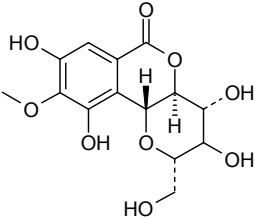
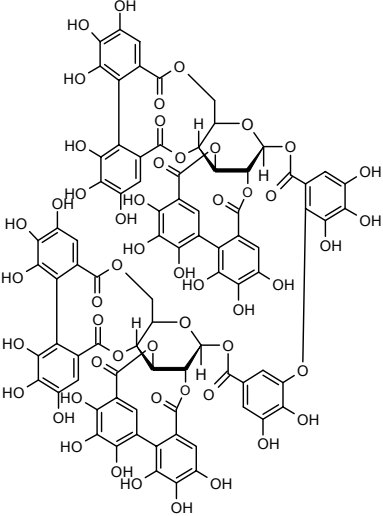
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
녹나무 ¹⁵¹⁾ <i>Cinnamomum camphora</i> Sieb. (녹나무과)	줄기, 목부 신경통 타박상	<ul style="list-style-type: none"> • Alcanfor • α-Bisabolol • α-Pinene(+,-) • β-Bisabolol • (+)-β-Pinene • β-Sitosterol • (+)-Borneol • (+)-Cadinenol • Campherenol • Campherenone • (+)-Camphor • Carvacrol • 1,8-Cineole • Cinnamylalcohol • Cubenol • Daucosterol • 3,7-Dimethylocta-1,7-dien-3,6-diol • Dipentane • Dotriacontan-1-ol • 10-Epi-α-cadinol • epi-Cubenol • Eugenol • Gentisic acid • 4-Hydroxy-4-methyl-5-dodecanyl • Isoboldine; (S)-form • (+)-Isborneol • (-)-Junenol • Kusunokinin • Kusunol • Linalool • Matairesinol dimethyl ether • 2,3-Methylenedioxy-naphthalene • Nerolidol • Piperitol; (-)-form • Proanthocyanidin A1 • Reticuline • 3(S),7-Dimethyl-octa-1,5-diene-3, • (+)-Sesamin • T-Muurolol • Xanthoxylol 	<ul style="list-style-type: none"> • α-Bisabolol (독성) • α-Pinene(+,-)(딱정벌레울음유발) • (+)-β-Pinene (피부자극독성) • β-Sitosterol (혈중지질저하제) • (+)-Borneol (독성) • (+)-Camphor(진통,강장,소양) • Carvacrol(피부자극독성) • 1,8-Cineole(방부제) • Cinnamyl alcohol(발아억제제) • Daucosterol (항종양성,진립선비대치료제) • Linalool(진경약) • Nerolidol (향수성분) • Eugenol (향진균,방부제) • Isoboldine;(S)-form(Antifeedant,살충성) • 10-Epi-α-cadinol(지사제) <p style="text-align: center;">▼</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <ul style="list-style-type: none"> • Gentisic acid(진통제,항관절염)▲ • (+)-Sesamin (항결핵제) <div style="text-align: center; margin-top: 20px;">  </div>

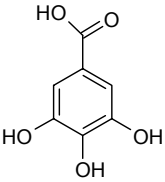
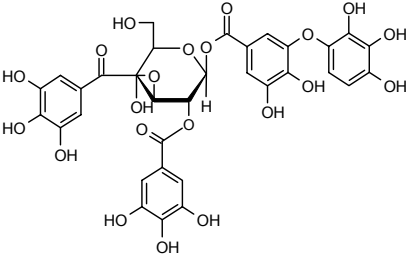
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>후박나무^{35, 151)} <i>Machilus thunbergii</i> S. et Z. (녹나무과)</p>	<p>수피, 이노제 홍복부팽만 복통</p>	<ul style="list-style-type: none"> • Afzelin • Guaiyaverin • Rutin • Quercitin • Trifolin • Quercetrin • Hyperin • Isoquercitrin • (dl)-N-Nor-armepavine • (dl)-Syringaresinol • Guaijaverin • Icarin A • (-)-Licarin B • Lyoniside • Machilin • meso-Dihydroguaiar- etic acid • meso-Nordihydrogua- -iaretic acid • (-)-Nectandrin A • (-)-N-Nor-armepavine • Nudiposide • 2-Octadecylidene-3- -hydroxy-4-methyl- ene-butanolide • Ssioriside 	<ul style="list-style-type: none"> • Isoquercitrin(이노작용) • Quercetin(항산화, 항암활성, anti-HIV활성) • Quercitrin(항바이러스, 진경제) • Hyperin(혈관확장제, 고혈압치료제) • (-)-N-Nor-armepavine(국소마취성) 
<p>좀현호색¹⁵¹⁾ <i>Corydalis decumbens</i> Pers. (현호색과)</p>	<p>괴경, 진통 통경</p>	<ul style="list-style-type: none"> • Berberine • β-Sitosterol • Bicuculline • Bicuculline (dl-form) • Bulbocapnine • Corlumidine {(+)-form, (1S,9R-form)} 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Berberine (항박테리아, 항말라리아, 해열제) 

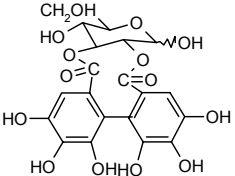
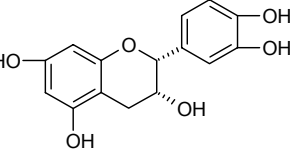
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Corydaline • Corydecumbine • Decumbenine • Decumbenine B • Decumbensine • Epi-α-decumbensine • Hydroxyhydrastine • Jateorrhizine • Protopine • (+)-Tetrahydropalmatine 	<ul style="list-style-type: none"> • Bicuculline(GABAA-receptor antagonist)  <ul style="list-style-type: none"> • Bulbocapnine (항고혈압, 강직, 진경작용) <div style="text-align: center;">▼</div>  <div style="text-align: center;">▲</div> <ul style="list-style-type: none"> • Corlumidine {(+)-form}, (1S,9R-form)} (GABA antagonist. 경련성) <ul style="list-style-type: none"> • Corydaline (진통, 향류마티즘제) • Jateorrhizine (항박테리아활성)  <ul style="list-style-type: none"> • Protopine (약한진경성, 약한항종양활성) <div style="text-align: center;">▼</div>  <div style="text-align: center;">▲</div> <ul style="list-style-type: none"> • (+)-Tetrahydropalmatine(진통, 진정, 최면성)

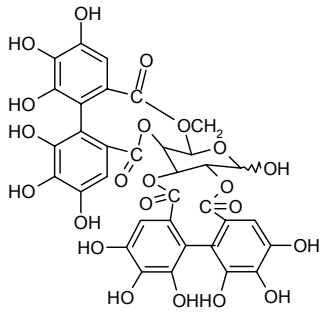
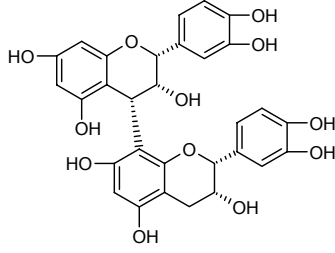
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>말냉이¹⁵¹⁾ <i>Thlaspi arvense</i> L. (십자화과)</p>	<p>종자, 심복통 요통</p>	<ul style="list-style-type: none"> · 7β,13-Dihydroxykaur-16-enolide · ent-Kaur-16-ene · ent-Kaur-16-en-19-ol · Erucic acid · Linolenic acid · Oleic acid · 2-Propenylglucosinolate · Trachylobanic acid 	<ul style="list-style-type: none"> · Oleic acid (유화제) · Trachylobanic acid (애벌레성장저해) 
<p>냉이¹⁵¹⁾ <i>Capsella bursa-pastoris</i> (L.) Medic. (십자화과)</p>	<p>전초, 해열 이뇨 지혈</p>	<ul style="list-style-type: none"> · Acetylcholine · Alanine · Arginine · Aspartic acid · Barosmin · Benzyl alcohol · Choline · Cysteine · Cystine; (R,R)-form · Fumaric acid · Fustin · Garbazol · Glutamic acid · Gossypetin hexamethyl ether · Hesperidin · Isoeugenol · Kaempferol-4'-methyl ether · Leucine · Luteolin-7-O-β-D-rutinoside · Malic acid · m-Cresol 	<ul style="list-style-type: none"> · Methionine(항궤양,해독성) · Malic acid(독성) · Acetylcholine(신경전달물질)  <ul style="list-style-type: none"> · Barosmin (비타민P)  <ul style="list-style-type: none"> · Isoeugenol (항혈소판응집)  <ul style="list-style-type: none"> · 3-Methyl-1-butanol (피부, 눈 자극) 

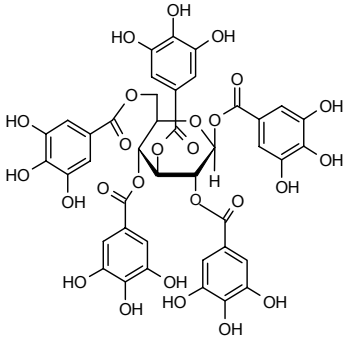
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Methionine • 3-Methyl-1-butanol • 10-(Methylsulfinyl)decyl glucosinolate • 9-(Methylsulfinyl)nonyl glucosinolate • N-Amyl alcohol • Norkanugin • o-Cresol • Oxalic acid • p-Cresol • Phenol • Proline (S-form, L-form) • 2-Propenyl glucosinolate • Pyruvic acid • Quercetin-3-methyl ether • Tartaric acid • Tyramine • Vitamin C 	<ul style="list-style-type: none"> • Glutamic acid (체내 시스템적효과)  <ul style="list-style-type: none"> • Norkanugin(독성)  <ul style="list-style-type: none"> • Tyramine (아드레날린제) 
<p>노루오줌³⁶⁾ <i>Astilbe chinensis</i> var. <i>dauidii</i> Franch (범의귀과)</p>	<p>근경, 두통 관절통 위통 만성기관지염</p>	<ul style="list-style-type: none"> • 2-Hydroxyphenylacetic acid • Gentisic acid • Arbutin • Kaempferol • Quercetin • Myricetin • 2,4,6,3,4-Pentahydroxydihydrochalcone-2'-O-glucoside • 2'-O-Galactoside • β-sitosterol • β-Amyrin • β-Peltoboykinoic acid • Astilbic acid • Acetyl β-peltoboykinoic acid 	<ul style="list-style-type: none"> • Quercetin (항산화, 항암활성, anti-HIV활성) • β-Sitosterol (혈중지질저하제) • Myricetin(항 HIV활성) • Kaempferol(항염, 이노작용) • Gentisic acid(진통제) • Arbutin(항박테리아, 이노작용) 

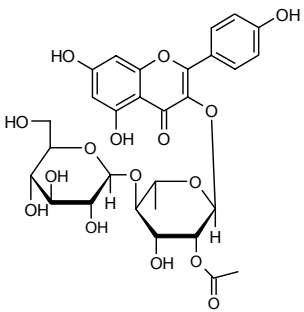
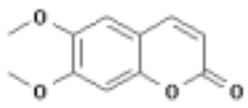
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Caffeic acid • Bergenin • Astilbin • Gallic acid • (+)-Catechin • (+)-Gallocatechin • 11-O-Galloylbergenin 	<ul style="list-style-type: none"> • Bergenin(진해제) 
뱀딸기 ³⁷⁾ <i>Duchesnea</i> <i>chrysantha</i> (Zoll.et.Morr) Miq (장미과)	전초, 항암효과	<ul style="list-style-type: none"> • Lectin 	<ul style="list-style-type: none"> • Lectin (항암활성)
가락지나물 ¹⁵¹⁾ <i>Potentilla</i> <i>kleiniana</i> Wight et Arnott (장미과)	전초, 청열 지혈	<ul style="list-style-type: none"> • Agrimoniin • Pedunculagin • Potentillin 	<ul style="list-style-type: none"> • Agrimoniin (항암활성) 
딱지꽃 ¹⁵¹⁾ <i>Potentilla</i> <i>chinensis</i> Ser. (장미과)	전초, 이질 해열 통경	<ul style="list-style-type: none"> • Agrimoniin • Potentillin • Pedunculagin 	<ul style="list-style-type: none"> • Agrimoniin(항암활성)

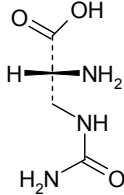
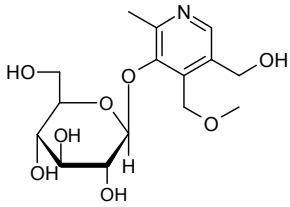
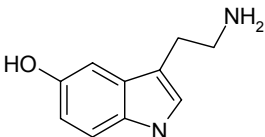
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요 생리활성)
뱀무 ¹⁵¹⁾ <i>Geum japonicum</i> Thunberg (장미과)	지상부, 소염 이뇨 수렴약	<ul style="list-style-type: none"> • 2-α-19-α-Dihydroxy-3-oxo-urs-12-en-28-oic acid • Colosolic acid • 3-Epipomolic acid • Gallic aldehyde • Gein • Gemin • 9-(2-Hydroxy-ethoxy-methyl)-guanidine • 4-O-Acetyl-thymolhydroquinone-1-O-β-D-glucopyranoside • Praecoxin D • Thymolhydroquinone 4-O-β-D-glucopyranoside 	<ul style="list-style-type: none"> • Gallic aldehyde (항바이러스활성)  <ul style="list-style-type: none"> • Geponin(항바이러스활성)  <ul style="list-style-type: none"> • GeminA(C₈₂H₅₆O₅₂) (항암활성)
명석딸기 ^{38, 151)} <i>Rubus parvifolia</i> L. (장미과)	뿌리, 진통 소종 해독	<ul style="list-style-type: none"> • β-Sitosterol • (-)Epicatechin (열매) • Fructose • Glucose • Sucrose • Isocitric acid • Isoquercitrin • Astragalin • Ascorbic acid • Tannin 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • (-)-Epicatechin(항산화작용) • Isoquercitrin (이뇨작용) • Astragalin (면역자극)

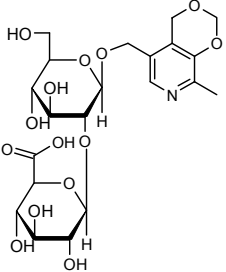
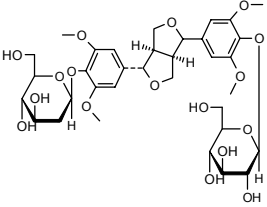
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
복분자딸기 39, 40, 41, 151) <i>Rubus coreanus</i> Miq. (장미과)	과실, 강장 강정 지갈약	<ul style="list-style-type: none"> • 2-α,3-α,19-α,23-Tetrahydroxy-urs-12-ene-24,28-dioic acid • 2-α,3-β,19-α,23-α-Tetrahydroxy-urs-12-en-28-oic acid • Coreanogenoic acid • Coreanoside F1 • Nigaichigoside F1 • Nigaichigoside F2 • 3-O-α-L-Arabinopyranosyl-1-up-20(29)-en-28-oic acid • [28-O-β-D-Glucopyranosyl]-2-α,3-β,19-α,23-tetrahydroxy-urs-12-en-29-oic acid • Suavissimoside R1 • Kaempferol • Quercetin • Quercetin-3-O-β-glucuronide;Na carboxylate • Sanguin H-5 • Ellagic acid • Quercetin-3-O-β-D-glucuronopyranoside • Quercetin-3-O-β-D-glucuronopyranosyl methyl ester • Quercetin-3-O-β-D-xylopyranosyl-(2\rightarrow1)-O-β-D-glucopyranosidw • 2,3-(S)-HHDP-D-glucose • Pedunculagin • (+)-Catechin • (-)-Epicatechin • Procyanidin B-4 	<ul style="list-style-type: none"> • Kaempferol (항염, 이노작용) • Quercetin (항산화, 항암활성) • (+)-Catechin (항설사제, 항퀘양, 항산화성) • Ellagic acid (간장보호, 수렴제) • 2,3-(S)-HHDP-D-glucose (항산화작용) <div style="text-align: center;">  <p>The image shows the chemical structure of 2,3-(S)-HHDP-D-glucose. It consists of a D-glucose molecule with a HHDP (hexahydrodiphenyl) group attached to the 2 and 3 positions of the glucose ring. The HHDP group is a biphenyl system with two hydroxyl groups on each phenyl ring, and the two phenyl rings are connected by a central carbon-carbon bond. The glucose part is shown in a chair conformation with the HHDP group in the endo position.</p> </div> <ul style="list-style-type: none"> • (-)-Epicatechin (항산화작용) <div style="text-align: center;">  <p>The image shows the chemical structure of (-)-Epicatechin. It is a flavan-3-ol consisting of a chromane ring system. The A-ring has a hydroxyl group at position 2 and a hydroxyl group at position 3. The C-ring has a hydroxyl group at position 2 and a hydroxyl group at position 3. The D-ring is a phenyl ring with two hydroxyl groups at positions 2 and 3.</p> </div>

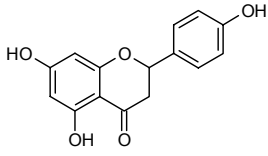
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
			<ul style="list-style-type: none"> • Pedunculagin(항산화작용)  <ul style="list-style-type: none"> • Procyanidin B-4(항산화작용) 
<p>오이풀¹⁵¹⁾ <i>Sanguisorba officinalis</i> L. (장미과)</p>	<p>뿌리, 수렴 지혈 피부염 습진 화상</p>	<ul style="list-style-type: none"> • 1-α-O-Galloylpedunculagin • Benthamic acid • β-D-Glucogallin • (+)-Catechin • Daucosterol • 3,11-Dioxo-19-α-hydroxy-12-ursen-28-oic acid • Gallic acid • Gallicacid3-O-β-D-(6'-O-galloyl)glucopyranoside • Gallotannin • 3-Galloylprocyanidin B3 • Gambiriin A1,B3 • Hamamelitannin • Isostrictinin • 3-O-β-D-Glucopyranosylsitosterol 	<ul style="list-style-type: none"> • (+)-Catechin (항설사활성, 항궤양,항산화성) • Daucosterol (항종양성,전립선비대증치료제) • Gallic acid (항종양제,수렴제) • Gallotannin (수렴제,지혈제) • Protocatechuic acid (영양화학적저해제) • Ursolic acid (이노작용,항종양성)

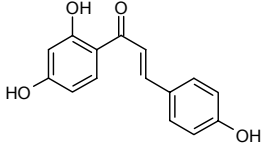
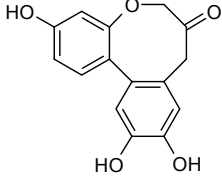
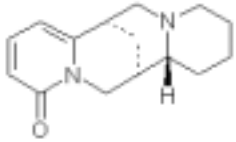
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> · 7-O-Galloyl-(+)-catechin (2R,3S-form) · 6-O-Galloyl-1-O-methyl-β-D-glucose · 3-O-Galloylprocyanidin C2 · 1-O-Methyl-β-D-glucopyranosyl-4,6-di-O-gallate · 1-O-Methyl-β-D-glucopyranosyl-6-O-digallate · 1-O-Methyl-β-D-glucopyranosyl-2,3,4,6-tetra-O-gallate · 1-O-Methyl-β-D-glucopyranosyl-3,4,6-tri-O-gallate · 3-Oxo-19-α-hydroxy-12-ursen-28-oic acid · Pedunculagin · Pentagalloylglucose · Pomolicacid28-O-β-D-glucopyranosyl ester · Procyanidin B3,P-13 · Protocatechuic acid · Sanguin · Sanguisorbin B · 2,3,4,6-Tetragalloyl-D-glucose · 1,2,3,6-Tetra-O-galloyl-β-D-glucopyranose · 3,3',4-Trimethoxyellagic acid · 1,2,6-Tri-O-galloyl-β-D-glucose · 2',3,5-Tri-O-galloyl-D-hamamelose · Ursolic acid · Vitamin C · Ziyuglycoside I,II · Zizyvoside I, 	<ul style="list-style-type: none"> · Pentagalloylglucose (BUN-decreasing activity) 

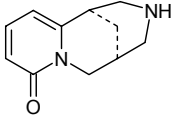
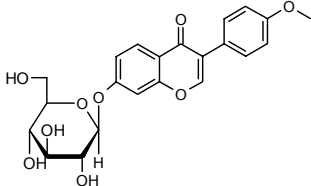
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
켈레꽃 ¹⁵¹⁾ <i>Rosa multiflora</i> Thunb. (장미과)	열매, 완하 부중 각기	<ul style="list-style-type: none"> • Afzelin • Astragalin • β-Sitosterol • Campesterol • Cholesterol • Cyanin • Delphin • Gallic acid • Hyperoside • Isoquercitrin • Methyl gallate • Multiflorin A • Multiflorin B • Multinoside A • Multinoside A acetate • Protocatechuic acid • Quercetin-3-O-β-D-xyl opyranoside • Quercetin-3-O-D-glucop yranosyl-(1->6)-bet • Quercitrin • Rosamultic acid • Rosamultin • Salicylic acid • Scoparone • Stigmastane-3,6-dione (5 α H) • Tomentic acid β-D-glucop -pyranosyl ester • Tormentic acid 	<ul style="list-style-type: none"> • Astragalin (면역자극) • β-Sitosterol (혈중지질저하제.) • Gallic acid (항종양제,수렴제) • Hyperoside (혈관확장제,고혈압치료제) • Isoquercitrin (이노제) • Methyl gallate (Platelet anti-aggregation) • Protocatechuic acid (영양화학적저해제) • Quercitrin(항바이러스,진경제) • Salicylic acid(해열,진통제) • Multiflorin A(하제) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Scoparone(식물조직분비항독성물질) <div style="text-align: center;">  </div>
마가목 ⁴²⁾ <i>Sorbus commixta</i> Hedlund (장미과)	열매, 동면촉진 제	<ul style="list-style-type: none"> • Ascorbic acid • Sorbit • Malic acid • Sorbital • Sorbinoil 	<ul style="list-style-type: none"> • Malic acid (피부,눈자극)

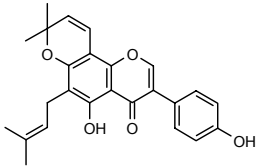
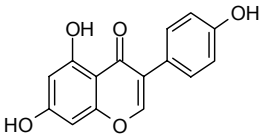
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
자귀나무 ^{43, 151)} <i>Albizia julibrissin</i> Durazz. (콩과)	수피, 강장 진통 진정 구충 이뇨	<ul style="list-style-type: none"> • Acacic acid • Acacic acid lactone • Acacigenin B • Acanthoside B • Acetylcholine • Albizide • Albizziine (L-form, S-form) • Alju A, B • α-Spinasterol • α-Spinasterone • Cornoside • 16-Deoxyacacigenin • 22,23-Dihydrospinasterone • (+)-5,5'-Dimethoxylicaricesinol-4-O-β-D-apiofuranosyl-(1->2)-β-D-glucopyranoside • 5,5'-Dimethoxy-7-oxolaricicesinol-4'-O-β-D-apiofuranosyl-(1->2)-β-D-glucopyranoside • 4,6-Dimethoxyphthalide • 21-{4-(Ethylidene)-2-tetrahydrofuranmethacryloyl}machae-rinic acid • 3-Hydroxy-5-hydroxymethyl-4-methoxymethyl-2-methylpyridine-3-O-β-D-glucopyranoside • 5-Hydroxytryptamine • Hyperoside • Icariside E5 • Julibrine I, II • Julibrogenin A,B • Julibroside • (+)-Lyoniresinol-4,9'-di-O-β-D-glucopyranoside • (+)-Lyoniresinol-4,9'-di-O-β-D-glucopyranoside • (+)-Lyoniresinol-9'-O-β-D-glucopyranosyl(1->4)-β-D-glucopyranoside 	<ul style="list-style-type: none"> • Acetylcholine(신경전달물질) • Hyperoside(혈관확장제) • Albizziine(L-form, S-form) (Glutaminase inhibitor) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • 3-Hydroxy-5-hydroxymethyl-4-methoxymethyl-2-methylpyridine-3-O-β-D-glucopyranoside (신경독성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • 5-Hydroxytryptamine (혈관수축) <div style="text-align: center;">  </div>

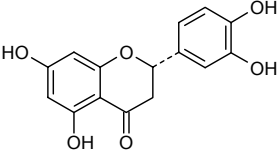
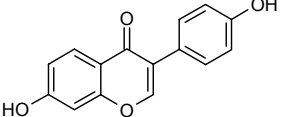
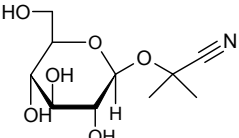
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • Liriodendrin • (+)-Lyoniresiol-9'-O-β-D-glucopyranosyl-(1->4)-β-D-glucopyranoside • Machaerinic acid • Machaerinic acid lactone • Machaerinic acid methyl ester • 4-O-β-D-Apiofuranosyl-(1->2)-β-D-glucopyranosylglaberide I • 1-O-β-D-Apiofuranosyl(1->2)-β-D-glucopyranosyl-3,4,5-trimethoxyphenol • 3-O-β-D-Glucopyranosyl-α-spina-sterol • 4-O-β-D-Glucopyranosylglaberide I • 4-O-β-D-Glycopyranosylsyringaresinol • (+)-Pinitol • Quercitrin • S-(β-Carboxyethyl)-L-cysteine (S-form) • S-(β-Carboxyisopropyl)-L-cysteine • Syringaresinol diglucoside • Syringaresinol 4-O-β-D-apiofuranosyl-(1->2)-β-D-glycopyranoside • Syringaresinol tetraglycoside • Syringaresinol triglycoside • (-)-Syringaresinol-4,4'-bis-O-β-D-apiofuranosyl-(1->2)-β-D-glucopyranoside • (-)-Syringaresinol-4,4'-bis-O-β-D-glucopyranoside • (-)-Syringaresinol-4-O-β-D-apiofuranosyl-(1->2)-β-D-glucopyranoside • (-)-Syringaresinol-4-O-β-D-apiofuranosyl-(1->2)-β-D-glucopyranosyl-4'-O-β-D-glucopyranoside • (-)-Syringaresinol-4-O-β-D-glucopyranoside • Syringic acid methy ester 4-O-β-D-apiofuranosyl-(1->2)-β-D-glucopyranoside • 3',4',7-Trihydroxyflavone • Vomifoliol-3'-O-β-D-apiofuranosyl(1->6)-β-D-glucopyranoside 	<ul style="list-style-type: none"> • Julibrine I (신경독성)  <ul style="list-style-type: none"> • Liriodendrin (adenosine 3',5'-cyclic monophosphate phosphodiesterase 활성저해) 

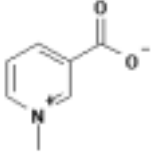
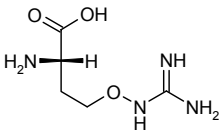
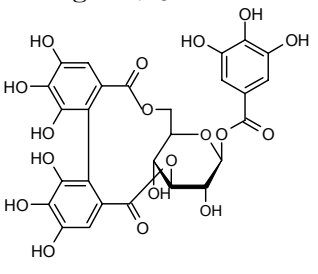
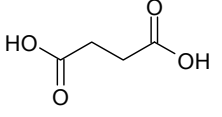
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> · 1-Hexacosanol · α-Spinasterol · 3-O-[6'-O-palmitoyl-β-D-glucosyl]-α-spinasterol · α-Spinasteryl 3-O-β-D-glucoside · Quercetin 3-O-galactoside · Quercetin 3-O-rhamnoside · 3',4',7-Trihydroxyflavone · α-Spinasteryl glucoside 	
<p>주엽나무⁴⁴⁾ <i>Gleditsia japonica</i> var <i>koraiensis</i>(Nak.)Nak (콩과)</p>	<p>과실, 종자 진해 용혈 거담 기관지염 편도선염 종양</p>	<ul style="list-style-type: none"> · Gleditsia saponin B, C, D, D2, E, G, I · Vitexin · Isovitexin · Orientin · Isoorientin · 4-Caffeoyl qunnic acid · 5-Caffeoyl qunnic acid · 3,5-Dicaffeoyl qunnic acid · 4,5-Dicaffeoyl qunnic acid · Caffeic acid · Quercetin · Isoquercitrin · Luteoline-7-O-glucoside 	<ul style="list-style-type: none"> · Caffeic acid (항산화활성) · Quercetin (항산화, 항암활성) · Isoquercitrin (이노제) · Orientin(독성)
<p>실거리나무⁴⁵⁾ <i>Caesalpin-ia japonica</i> S.et Z. (콩과)</p>	<p>줄기, 해열제</p>	<ul style="list-style-type: none"> · Apigenin · Palmitic acid · (+)-Pinitol · Sitosterol · Heptacosane · Nonacosane · β-Carotene · Arachic acid · Heparin 	<ul style="list-style-type: none"> · Apigenin(독성) 

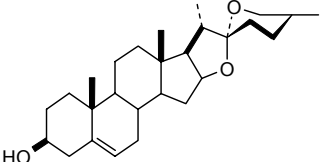
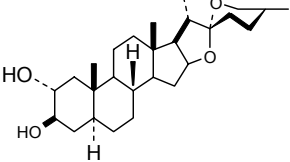
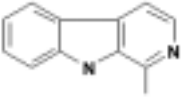
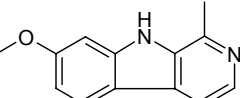
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • O-(p-hydroxybenzoyl)-β-D-glucose • 3'-Deoxy-4-O-methylsappanol • 4-O-Methylsappanol • 4-O-Methylepisappanol • Sappanol • Sappanone A,B • Isoliquiritigenin • 3-Deoxysappanchalcone • Butein • Brazilin • Protosappanin A, B, C • 4',7-Dihydroxyflavone • 3,4',7-Trihydroxyflavone • 3',4',7-Trihydroxyflavone • 3,3,4',5,7-Pentahydroxyflavanone • 2',3,4',5,6,7-Hexahydroxyflavone 	<ul style="list-style-type: none"> • Isoliquiritigenin (Aldosereductase inhibitor)  <ul style="list-style-type: none"> • Protosappanin A (약한진정작용) 
<p>차풀¹⁾ <i>Cassia noname</i>(Sieb) Honda (콩과)</p>	<p>잎, 과실</p> <p>이뇨 신장염 황달</p>	<ul style="list-style-type: none"> • Emodin • Palmitic acid • Myristic acid 	<ul style="list-style-type: none"> • Emodin(항균성, 항종양성) • Palmitic acid(독성) • Myristic acid(독성)
<p>고삼^{46, 47, 48, 151)} <i>Sophora flavescens</i> Ait. (콩과)</p>	<p>뿌리,</p> <p>해열 지사제 피부질환 궤양발생예 방효과 항종유작용 (동물실험)</p>	<ul style="list-style-type: none"> • Allomatrine ((+)-form) • (+)-5-α,9-α-Dihydroxymatrine • (-)-9-α-Hydroxysophoramine • Anagyrine ((-)-form) • Baptifoline • Cytisine ((-)-form) • 7,11-Dehydromatrine ((-)-form) • (-)-delta7-Dehydrosophoramine 	<ul style="list-style-type: none"> • Anagyrine ((-)-form) (이뇨제, 하제) 

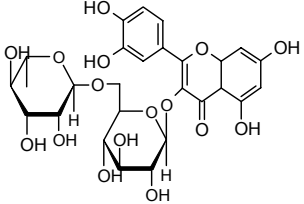
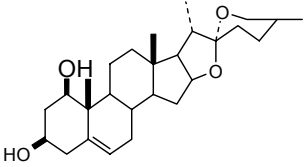
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요 생리활성)
	암세포억제작용(동물실험) 항균 효과	<ul style="list-style-type: none"> · 2,4(5)-Dimethylimidazole · 5-Episophocarpine ((-)-form) · Formononetin · Formononetin-7-O-β-D-glucoside · Isokuraramine · Isokurarinone · Isomatrine ((+)-form) · Isoxanthohumol · Kosamol A · Kuraramine ((+)-form) · Kuraridin · Kuraridinol · Kurarinol · Kurarinone ((S)-form) · Kushenin · Kushenol A · Kushequinone A · Lupanine · (-)-Maackiain · Maackiain · Mamanine ((+)-form) · Matrine ((+)-form) · 4(5)-Methylimidazole · Methylkushenol C · 2-n-Heptadecyl-5,7-dihydroxy-6,8-dimethylchromone · N-Methylcytisine · 2-n-Nonadecyl-5,7-dihydroxy-6,8-dimethylchromone · Noranhydroicaritin · Norkurarinone · 2-n-Pentacosyl-5,7-dihydroxy-6,8-dimethylchromone 	<ul style="list-style-type: none"> · Cytisine ((-)-form) (소염제)  <ul style="list-style-type: none"> · Formononetin-7-O-β-D-glucoside (돌연변이유발성) 

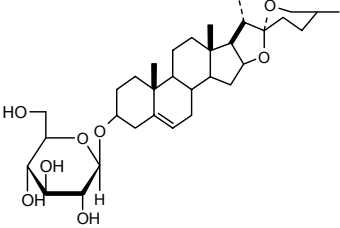
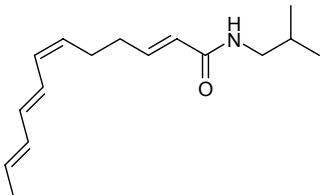
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • 2-n-Pentadecyl-5,7-dihydroxy-6,8-dimethylchromone • 2-n-Tridecyl-5,7-dihydroxy-6,8-dimethylchromone • Oxymatrine ((+)-form) • Pterocarpin • Rhombifoline ((-)-form) • Sophocarpine ((-)-form) • (+)-Sophocarpine N-oxide • Sophoraflavone G • Sophoraflavoside I, II, III, IV • Sophoramine ((-)-form) • Sophoranol ((+)-form) • (+)-Sophoranol N-oxide • Sophoridine ((-)-form) • Soyasaponin I • Trifolirhizin • 7,2',4',-Trihydroxy-5-methoxy-8-(5'-hydroxy-5'-methyl-2'-isopenyl-hexyl) flavanone • Vexibinol 	
<p>솔비나무^{49, 50)}</p> <p><i>Maackia fauriei</i>(lev.) Takeda (콩과)</p>		<ul style="list-style-type: none"> • (-)Maackiain(3-hydroxy-8,9-methylenedioxypterocarpan) • Ononin(4'-methoxyisoflavone-7-O-β-D-glucoside) • Wistin(4',6-dimethoxyisoflavone-7-O-β-D-glucoside) • 2-Methoxy-4'-hydroxyisoflavone-6-O-β-D-glucoside) • Daidzen • Formononetin • Daidzein-7,4'-di-O-β-D-glucoside • 4',5,7-Trihydroxy-6,8-diprenylisoflavone • Osajin • Neorautenanol • 4',7-Dihydroxyflavone • Genistein • Retusin • Afromosin • Dihydroferreirin • 3'-Methoxydaidzein 	<ul style="list-style-type: none"> • Osajin(항산화활성)  <ul style="list-style-type: none"> • Genistein(항진균제) 

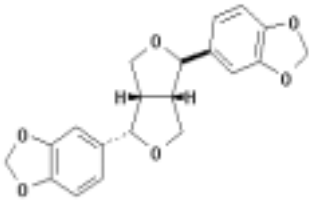
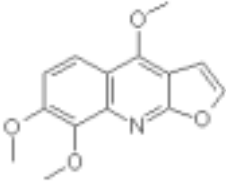
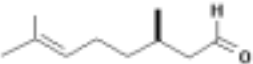

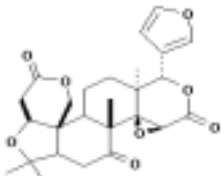
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
싸리 ¹⁵¹⁾ <i>Lespedeza bicolor</i> Turez (콩과)	지상부 백일해 임질	<ul style="list-style-type: none"> • Eriodictyol • Creatinine • Dimethyltriptamine 	<ul style="list-style-type: none"> • Eriodictyol(거담제) 
쑥 ^{1, 51)} <i>Pueraria thunbergiana</i> Benth. (콩과)	뿌리, 해열 자양 강장 숙취	<ul style="list-style-type: none"> • Kudzusapogenol B methyl ester • Kudzusapogenol C • Puerarin-7-O-xyloside • Daidzin • Daidzein • Puerarin • 6,4'-Dihydroxy-7-methoxyisoflavone • 5,7,4'-Trihydroxy-8-methoxyisoflavone-7-O-glucoside • 6,4'-Dihydroxy-7-methoxyisoflavone-6-O-glucoside 	<ul style="list-style-type: none"> • Daidzein(산화방지제) 
돌콩 ⁵²⁾ <i>Glycine soja</i> Sieb.et Zucc (콩과)		<ul style="list-style-type: none"> • (-)Epicatechin 	<ul style="list-style-type: none"> • (-)Epicatechin (항산화작용)
낭아초 ⁵³⁾ <i>Indigofera pseudotinctoria</i> Matsumura (콩과)	지하부, 진통 해독 소증	<ul style="list-style-type: none"> • Stizolamine • Rutin • Caffeic acid • Kaempferol-3-O-rutinoside • Myricetin-3-O-rutinoside 	<ul style="list-style-type: none"> • Caffeic acid (항종양, 항HIV, 항산화활성)
벌노랑이 ¹⁾ <i>Lotus corniculatus</i> L. var. japonicus (콩과)	뿌리, 혈압강하 청열 지혈	<ul style="list-style-type: none"> • Linamarin • Lespedin 	<ul style="list-style-type: none"> • Linamarin(기형발생물질) 

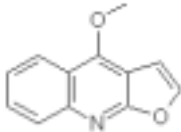
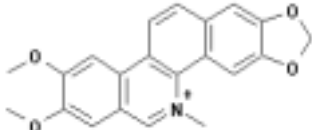
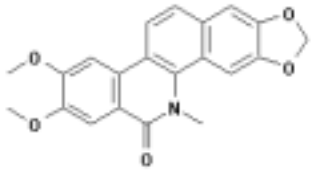
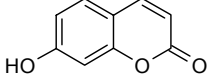
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
자운영 ¹⁾ <i>Astragalus sinicus</i> L. (콩과)	전초, 하리 해열 지혈	<ul style="list-style-type: none"> • Trigonelline • Canavanine 	<ul style="list-style-type: none"> • Trigonelline(항고혈당제)  <ul style="list-style-type: none"> • Canavanine 
쥐손이풀 ^{54, 151)} <i>Geranium sibiricum</i> L. (쥐손이풀과)	전초, 지사제 대하증 피부병	<ul style="list-style-type: none"> • Geraniin • Corilagin • Ellagic acid • Gallic acid • Kaempferitrin • Kaempferol-7-rhamnoside • Stigmasterol • β-Sitosterol • 6-Methyl-octahydro-7,8,9-trihydroxycyclopenta-[c][2]-benzopyran-3,5-dione • Ethylbrevifolin carboxylate • Kaempferol • Protocatechuic acid • Quercetin • Xanthoxylin 	<ul style="list-style-type: none"> • Geraniin (Inhibitor of protein kinase C.) • Ellagic acid (간장보호,수렴제,항진균제) • Gallic acid (항종양제,수렴제) • β-Sitosterol (혈중지질저하제) • Quercetin(항산화,항암활성) • Corilagin(독성) 
팽이밥 ¹⁾ <i>Oxalis corniculata</i> L. (팽이밥과)	전초, 해독 지사 이뇨	<ul style="list-style-type: none"> • Citric acid • Succinic acid • Oxalic acid 	<ul style="list-style-type: none"> • Citric acid (독성) • Tartaric acid (독성) • succinic acid(눈자극) 

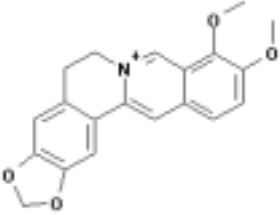
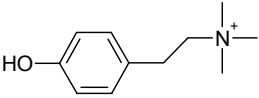
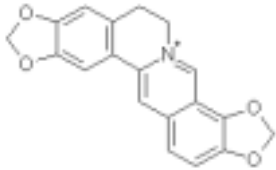
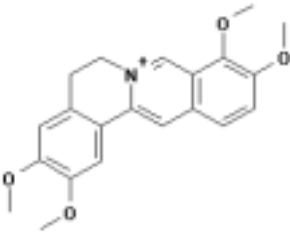
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
남가새 ¹⁵¹⁾ <i>Tribulus terrestris</i> L. (남가새과)	종자, 혈압강하 이뇨작용	<ul style="list-style-type: none"> • Artecenin • Aspartic acid • Astragalin • Astragaloside • β-Sitosterol • Campesterol • Daucosterol • 3,26-Dihydroxyfurost-20(22)-en-12-one; (3β,24xi)-form, 3-O-[β-D-Xylopyranosyl-(1->3)-[β-D-galactopyranosyl-(1->2)]-β-D-glucopyranosyl-(1->4)-β-D-glucopyranoside], 26-O-β-D-glucopyranoside • Dioscin • Diosgenin • 3-Gentiobiosyl-7-glucopyranosylkaempferol • Gitogenin • Glutamic acid • Gracillin (25R) • Harman • Harmine • Harmol • Hecogenin • Isofucosterol • Isorhamnetin-3,7-di-O-β-D-glucopyranoside • Isorhamnetin-3-gentiobioside-7-glucopyranoside • Isorhamnetin-3-gentiotrioxide • Isorhamnetin-3-gentiotrioxide-7-glucopyranoside • Isorhamnetin-3-p-coumaroyl-glucopyranoside 	<ul style="list-style-type: none"> • Astragalin (면역자극) • β-Sitosterol (혈중지질저하제) • Daucosterol (항종양성, 전립선비대치료제) • Isoquercitrin (이뇨작용) • Kaempferol(항염, 이뇨작용) • Quercetin(항산화, 항암활성) • Diosgenin (소염, 발정촉진성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Gitogenin(소염제) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Harman(식물생장및효소저해) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Harmine (항파킨슨씨병) <div style="text-align: center;">  </div>

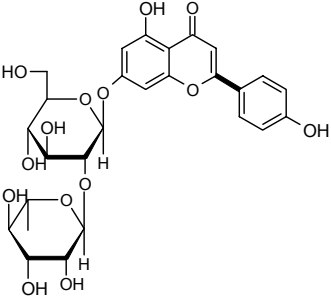

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성 성분(주요 생리활성)
		<ul style="list-style-type: none"> • Isoquercitrin • Kaempferol • Kaempferol-3-O-β-D-rutinoside • Kaempferol-3-O-gentiobioside • Kaempferol-3-p-coumaroylglycopyranoside • Kikuba saponin • Neogitogenin • Neotigogenin (25S) • 3-O-β-D-Glucopyranosylisorhamnetin • 3-O-β-D-Glucopyranosylneohcogenin • Protogracillin • Quercetin • Quercetin-3-gentiobiosyl-7-glucopyranoside • Quercetin-3-gentiotrioside • Quercetin-3-O-β-D-rutinoside • Quercetin-3-O-gentiobioside • Quercetin-3-O-rutinoside-7-O-β-D-glucopyranoside • Quercetin-3-rhamnogentiobioside • Ruscogenin (25R) • Spicatoside A • Spirosta-3,5-diene (25R),(25S) • Spirostane-3,6,12-trione • Spirost-4-ene-3,6,12-trione; (25R)-form • Terrestriamide • Terrestroside F,C,D,E,J,K • Tetrahydroharmine(R-form) • Tribuloside • Tribulosin 	<ul style="list-style-type: none"> • Quercetin-3-O-β-D-rutinoside (소염, 항부종, 항HIV활성)  <ul style="list-style-type: none"> • Ruscogenin (25R)(소염제) 

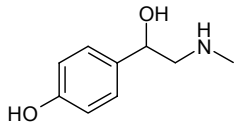
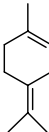
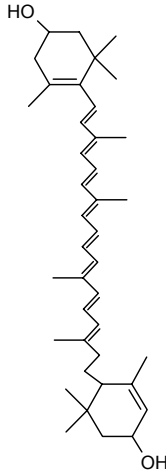
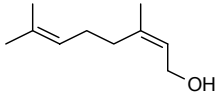
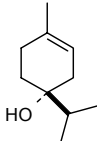
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Tribulus polysaccharide H • Tribulusterrestris diosgenin glycoside • Tribulus terrestrisdiosgenin rhmnoglucoside • Tribulusterrestris neohecogenin glucoside • Tribulus terrestris saponin C D-N • Tribulus terrestris saponin D-N • Tricin-7-diglucoopyranoside • Trillarin • Trillin 	<ul style="list-style-type: none"> • Trillin(혈소판응집저해) 
<p>왕초피나무⁵⁵⁾ <i>Zanthoxylum coreanum</i> Nakai (운향과)</p>	<p>과피, 건위약 향신료</p>	<ul style="list-style-type: none"> • β-Sitosterol • Campesterol • Skimmianine(β-fagarine,7,8-dimethoxy dictamine) • Myristic acid 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Myristic acid(독성)
<p>초피나무¹⁵¹⁾ <i>Zanthoxylum piperitum</i> (L.)DC (운향과)</p>	<p>과피, 발한 살충</p>	<ul style="list-style-type: none"> • Afzelin • α-Sanshool • (+)-Asarinin • (-)-Asarinin • Citronellal; (R)-form • Citronellol; (R)-form • γ-Fagarine • γ-Dimethyl-allyl piperityl ether • γ-Dimethyl-allyl xanthoxy-lyl ether • γ-Sanshool • Hesperidin • Hydroxy-α-sanshool • Hydroxy-γ-sanshool • Hyperoside 	<ul style="list-style-type: none"> • Hyperoside(혈관확장제) • Linalool (진경제) • Magnoflorine (약한독성, 혈압강하제) • Scoparone (식물조직분비항독성물질) • (+)-Sesamin (항결핵제) • (-)-Sesamin (항결핵제) • α-Sanshool(살충성) 

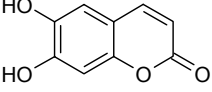
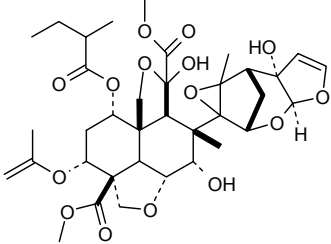
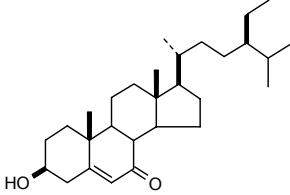
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요 생리활성)
		<ul style="list-style-type: none"> • Laurifoline • Limonene oxide(1-β, 2-β, 4-α) • Limonin • Linalool • Magnoflorine • Menisperine • Methyl2,4-dimethoxy-5-hydroxycinnamate • Piperitol; (-)-form • Quercetin • Quercitrin • Scoparone • (+)-Sesamin • (-)-Sesamin • Skimmianine • Xanthoxylin • Xanthoxylol 	<ul style="list-style-type: none"> • Quercetin(항산화, 항암활성) • Quercitrin (항바이러스, 진경제) • (+)-Asarinin(항결핵제) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Skimmianine (유사아페드린약리특성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Citronellal; (R)-form (벌레퇴치방향제) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Limoneneoxide(1-β,2-β, 4-α) (돌연변이유발독성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Limonin(수면시간단축) <div style="text-align: center;">  </div>

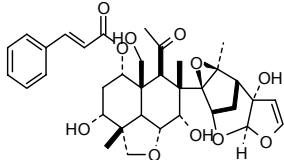
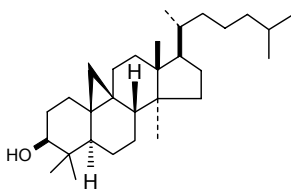
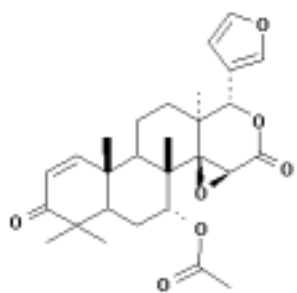
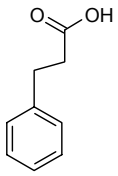
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
머귀나무 ¹⁵¹⁾ <i>Zanthoxylum</i> <i>ailanthoid-</i> <i>es</i> Sieb.et Zucc. (운향과)	잎, 치통 대하 살충	<ul style="list-style-type: none"> • Acetylchelerythrine • Ailanthoidine • Ailanthoidol • Arnottianamide • (-)-Asarinin • Auraptene • β-Amyrin • β-Sitosterol • De-N-methylchelerythrine • Dictamnine • (-)-Epipinoresinol • γ-Sanshool • Herniarin • Hydroxy-γ-sanshool • Isopimpinellin • Laurifoline • Luvangetin • 4-Methoxy-1-methyl-2-quinolone • Nitidine • 9-O-Feruloyl-5,5'-dimethoxy-lariciresinol • Oxynitidine • Pinoresinol • Pluviatilol3,3-Dimethylallylether • (-)-Secoisolariciresinol • Skimmianine • (-)-Syringaresinol • 2-trans-4-trans-N-Isobutyltetradeca-2,4-dienamide • Umbelliferone • Xanthyletin 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • β-Amyrin(항생제) • Dictamnine (강한근육수축활성)  <ul style="list-style-type: none"> • Nitidine (독성포함한 항종양성)  <ul style="list-style-type: none"> • Oxynitidine(항종양성)  <ul style="list-style-type: none"> • Umbelliferone (혈소판응집활성, 항진균성) 

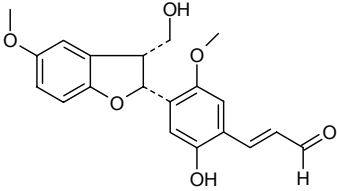
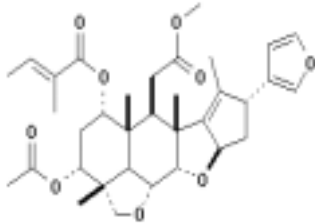
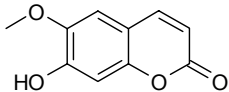
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
황벽나무 ¹⁵¹⁾ <i>Phellodendron</i> <i>amurense</i> Rupr. (운향과)	수피 황달 유정 소갈	<ul style="list-style-type: none"> • Berberine • Bourjotinolone A • Candicine • Coptisine • Dihydroniloticin • 5,5'-Dimethylfurfural Ether • Hesperidin • Higenamine; N-Me, 7-O-β-D-N-Me, 7-O-β-D-glucopyranoside • Hispidone • Jateorrhizine • Kihadalactone A, B • Kihadanin A, B • Limonin • Magnoflorine • Methylnonanone • Niloticin • Niloticin acetate • Noricaraside • Obacunone • 3-O-Caffeoylquinic acid; 3'-Me ether, Me ester • Palmatine • Phellamurin • Phellatin • Phellavin • Phellodendrine • Phellodendroside • Phelloside • Piscidinol A • Sinapaldehyde; O-β-D-Glucopyranoside • Syringin • Tirucall-7-ene-3,23,24,25- tetrol; (3-β,23S,24R)-form • Tortoside B • Umbelliferone 	<ul style="list-style-type: none"> • Jateorrhizine(항박테리아활성) • Berberine (항박테리아, 항말라리아, 해열제)  <ul style="list-style-type: none"> • Candicine (신경절차단, 혈관수축)  <ul style="list-style-type: none"> • Coptisine(소염제)  <ul style="list-style-type: none"> • Palmatine(자궁수축, 살균성)  <ul style="list-style-type: none"> • Umbelliferone (혈소판응집활성, 항진균성)

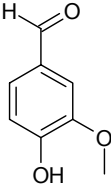
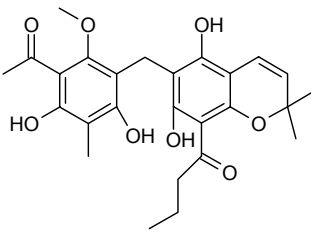
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
병굴 ⁵⁶⁾ <i>Citrus platymamma</i> Hort.ex Tanaka (운향과)	열매	<ul style="list-style-type: none"> • 1,4-Benzenedicarboxylic acid dimethyl ester • Hesperidin • Naringin 	<ul style="list-style-type: none"> • Naringin(소염제) 
유자나무 ¹⁵¹⁾ <i>Citrus junos</i> Tanaka (운향과)	열매, 술해독	<ul style="list-style-type: none"> • α-Ocimene • α-Pinene(+,-) • α-Terpinene • α-Terpineol • 17-β-D-Glucopyranosyl-deacetyl-nomilin • 17-β-D-Glucopyranosyl-limonin • (+)-β-Pinene • Bicyclogermacrene • (-)-cis-3,5,7-Trihydroxy-3'-methoxy-7-(2-O-α-rhamnosyl-β-glucopyranoside)-flavanone • Citronellal; (R)-form • Citronellol; (R)-form • Cubabene • 6,7-Dihydrotagetanol • 3,7-Dimethyl-2,6-octadien-1-ol; (E)-form, acetate • 1,3,11-Elementriene • γ-Terpinene • Geraniol • Germacrene B • Globulol 	<ul style="list-style-type: none"> • α-Pinene(+,-) (딱정벌레울음유발) • α-Terpineol(향수성분) • (+)-β-Pinene (독성, 피부자극) • Citronellal; (R)-form (벌레퇴치방향제) • γ-Terpinene (독성) • Geraniol(피부자극) • Linalool (진경제) • Naringin(소염제) • p-Cymene (독성) • α-Terpinene (향미제) 

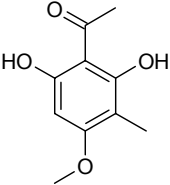
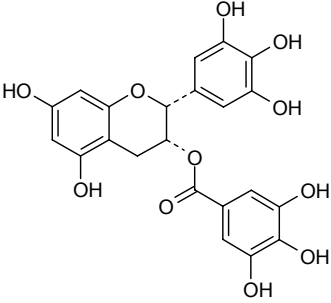
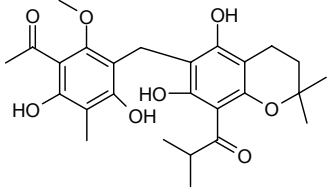
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> · Hesperidin · Hydroxy-α-carotene · Ichangensin-17-β-D-glucopyranoside · Jumosmarin · Junosidine · Junosmarin · Linalool · Lutein · Muurulene · Myrecene · Naringin · Narirutin · Neohesperidin · Neoxanthin (all E-form) · Neral · Nerol · 7-O-[α-L-Rhamnopyranosyl-(1->2)-α-L-rhamnopyranosyl-(1->6)-β-D-glucopyranosyl]naringenin · p-Cymene · Spathulenol · Synephrine · Tagetonol · Terpinen-4-ol · Terpeneol formate · Terpinolene · trans-Citral · Violaxanthin (all-E form) · (-)-Ylangene 	<ul style="list-style-type: none"> · Synephrine(교감신경흥분제)  <ul style="list-style-type: none"> · Terpinolene (환개미페로몬 경보)  <ul style="list-style-type: none"> · Lutein(항산화제)  <ul style="list-style-type: none"> · Nerol (피부자극독성)  <ul style="list-style-type: none"> · Terpinen-4-ol (진해, 거담, 진통제) 

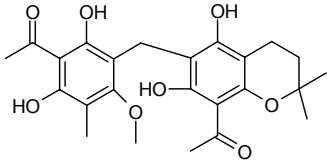
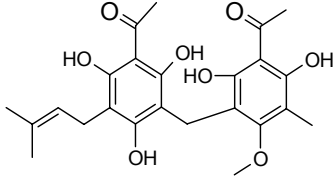
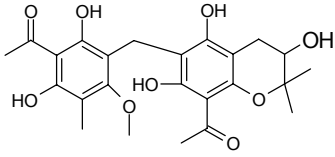
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>멀구슬나무 151)</p> <p><i>Melia azedarach</i> L. (<i>M.japonica</i> G.Don) (멀구슬나무 과)</p>	<p>뿌리, 수 피, 열매</p> <p>진통약 조충구제약 피부습진약</p>	<ul style="list-style-type: none"> • 6-Acetoxy-7-α-hydroxy-3-oxo-14-β,15-β-epoxymeliac-1,5-diene • 6-Acetoxy-14β,15β-epoxy-11α-hydroxy-7-oxo-meliacin-1,5-diene-3-O-α-L-rhamnopyranoside • 6-Acetoxy-3-β-hydroxy-7-oxo-14-β,15-β-epoxymeliac-1,5-diene-3-O-glucuronopyranoside • Aesculetin • 7-α-Acetoxy-14β,15β-epoxy-gedunan-1-ene-3-O-β-D-glucoside • α-Elemene • Apigenin-5-O-β-D-galactopyranoside • Azadirachtin • Azecin 3, 4, 1 • Azedarachin A, C • Azedaralide • 17-β-Hydroxy-azadiradione • 3-β-Hydroxystigmast-5-en-7-one • β-Sitosterol • Campest-5-en-7-one-3-β-ol • Campesterol • Catechin • Cinnamic acid • 1-Cinnamoylmelianolone • Cycloartanol • Cycloartanone; 24-methyl 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Catechin (항궤양성, 간장치료) • Cinnamic acid (마취성) • Aesculetin (항진균성)  <ul style="list-style-type: none"> • Azadirachtin (곤충성장저해)  <ul style="list-style-type: none"> • 3-β-Hydroxystigmast-5-en-7-one (섬유소용해성물질) 

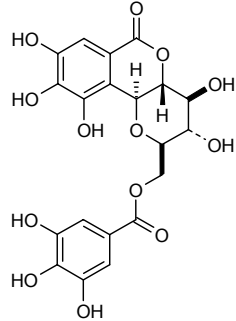
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Cycloartenone • Cycloeucalenol • Cycloeucalenone • Daucosterol • 7-Deacetoxy-7-oxogedunin • 1-Deacetylhimbolinin B • 6,11-Diacetoxy-7-oxo-14β,15β-epoxy-meliacin-1,5-diene-3-O-β-D-glucopyranoside • 21,23,24,25-Diepoxy-tirucall-7-en-21-ol • 4',5-Dihydroxyflavone-7-O-[α-L-rhamnopyranosyl-(1->4)-β-D-glucopyranoside] • 1,5-Dihydroxy-8-methoxy-2-methylanthraquinone-3-O-α-L-rhamnopyranoside • 1,8-Dihydroxy-2-methylanthraquinone-3-O-β-D-galactopyranoside • Epi-melianol • Ergostenone(24R) • Fraxinellone • Gedunin • Iso-chuanliansu • Isofraxidin • Isoscopoletin • Kaempferol-3-O-β-D-rutinoside • Kulactone • Kulinone • Kulolactone • Meldenin • Melia azedarach meliacin • Meliacin 	<ul style="list-style-type: none"> • Daucosterol (항종양성,진립선비대치료제) • Meliacine(항바이러스활성) • 1-Cinnamoylmelianolone (살충성)  <ul style="list-style-type: none"> • Cycloartanol(소염제)  <ul style="list-style-type: none"> • Gedunin(종양(생성)제)  <ul style="list-style-type: none"> • trans-Cinnamic acid (마취성, 구충제) 


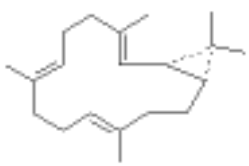
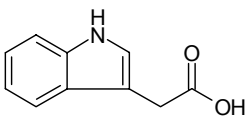
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Meliacine • Melianin A , B • Melianodiol • Melianol • Melianolide • Melianone • Melianoninol • Melianotriol • 5-(3'-Methoxycarbonylbutyr- -oyl)aminomethyl-trans-qui- nolizidine N-oxide • Methyl kulonate • 24-Methylene-cycloartanol • Nimbolidin A ,B • Nimbolin A ,B • Nimbolinin B • 12-O-Acetylazarachin A • Ohchinolal • Ohchinolide A ,B • Quercitrin • Salannin • Scoparone • Scopoletin • Stigmasterol • trans-Cinnamic acid • Triacontan-1-ol • Trichilin H • Tricosan-7-ol • Vanillic acid • Vanillin 	<ul style="list-style-type: none"> • Meliacine (항바이러스활성) • Quercitrin (항바이러스,진경제) • Scoparone (식물조직분비항독성물질) • Triacontan-1-ol (식물생장자극) • Melianoninol (곤충영양저해)  <ul style="list-style-type: none"> • Salannin(곤충영양저해)  <ul style="list-style-type: none"> • Scopoletin(진경제) 

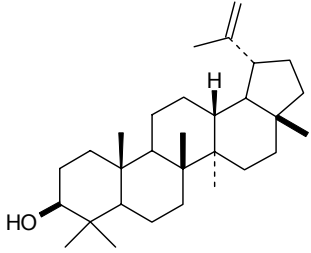
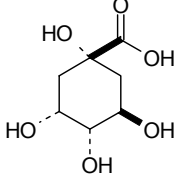
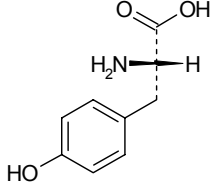
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
			<ul style="list-style-type: none"> • Vanillin(향산화성) 
애기풀 ^{57, 58)} <i>Polygala japonica</i> Houtt. (원지과)	전초 천식 월경불순 강장 진정제	<ul style="list-style-type: none"> • Kaempferol • Astragalin (kaempferol3-O-β-D-glucopyranoside) • Kaempferol 3-O-(6''-O-acetyl)-β-D-glucopyranoside • Kaempferol 3,7-di-O-β-D-glucopyranoside • Kaempferol 3-O-[6''-O-(3-hydroxy-3-methylglutaroyl)-glucoside] 	<ul style="list-style-type: none"> • Kaempferol (항염작용, 이뇨작용) • Astragalin (면역자극)
꿀거리나무 ¹⁾ <i>Daphniphyllum macropodum</i> Miquel (대극과)	잎, 수피 하제 이뇨 구충약	<ul style="list-style-type: none"> • Daphniphylline • Yuzurimine • Secodaphniphylline • Rutin 	
예덕나무 ^{59, 151)} <i>Mallotus japonicus</i> (Thunberg) Muell. - Arg. (대극과)	잎, 수피 위장질환 담석증 치질 간독성치료	<ul style="list-style-type: none"> • 1-[3-[(3-Acetyl-2,4-dihydroxy-6-methoxy-5-methylphenyl)methyl]-2,4,6-trihydroxy-5-(3-methyl-2-butenyl)phenyl]-1-butanone • β-D-Glucogallin • Butyrylmallotochromene • Butyrylmallotolerin 	<ul style="list-style-type: none"> • Bergenin(진해제) • Butyrylmallotochromene (세포파괴물질) 

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • 1,6-Digalloylglucose; β-D-Pyranose-form • 2',6'-Dihydroxy-4'-methoxy-3',5'-dimethylacetophenone • 2',6'-Dihydroxy-4'-methoxy-3'-methylacetophenone • 2,6-Dimethoxy-4-hydroxy-phenyl 6-galloylglucoside • 3,4-Di-O-galloylbergenin • 4,11-Di-O-galloylbergenin • 1,2-Di-O-galloyl-3,6-(R)-hexahydroxydiphenoyl-β-D-glucopyranose • (-)-Epigallocatechin-3-O-gallate • Furosin • Geraniin • Isobutyrylmallotochromene • Isomallotochromanol • Isomallotochromene • Isomallotolerin • Mallojaponin • Mallonin • Mallotannin A ,B • Mallotinic acid • Mallotochroman • Mallotochromanol • Mallotochromene • Mallotojaponin • Mallotojaponol • Mallotolerin • Mallotophenone • Mallotusinic acid • Mallotusinin 	<ul style="list-style-type: none"> • Geraniin (Inhibitor of protein kinase C) • Mallotochromene(세포파괴) • 2',6'-Dihydroxy-4'-methoxy-3'-methylacetophenone (세포파괴물질)  <ul style="list-style-type: none"> • (-)-Epigallocatechin-3-O-gallate (항HIV활성, 암세포성장저해)  <ul style="list-style-type: none"> • Isobutyrylmallotochromene (세포파괴) 

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • 3-Methoxy-4-hydroxyphenyl 1-O-2,6-di-O-galloyl-β-D-glucopyranoside • 2-Methoxy-4-hydroxyphenyl 1-O-(6-O-galloyl-β-D-glucopyranoside) • 3-Methoxy-4-hydroxyphenyl 1-O-(6-O-galloyl-β-D-glucopyranoside) • 3-Methoxy-4-hydroxyphenyl 1-O-(2,3,6-tri-O-galloyl-β-D-glucopyranoside) • Norbergenin • 1-O-Digalloyl-3,6-(R)-hexahydroxydiphenoyl-β-D-glucopyranose • 4-O-Galloylbergenin • 11-O-Galloylbergenin • 6-O-Galloylglucose • 1-O-Galloyllycerol • 4-O-Galloylnorbergenin • 11-O-Galloylnorbergenin • Procyanidin B4-3'-O-gallate • Pterocaryanin B ,C • Terchebin • 3,4,5-Trimethoxyphenyl 2,6-di-galloylglucoside • 3,4,11-Tri-O-galloylbergenin 	<ul style="list-style-type: none"> • Mallotochroman(세포파괴)  <ul style="list-style-type: none"> • Mallotojaponin(세포파괴)  <ul style="list-style-type: none"> • Mallotochromanol(세포파괴) 

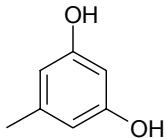
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
광대싸리 ⁶⁰⁾ <i>Securinega suffruticosa</i> (Pallas) Rehder (대극과)	잎, 뿌리 강장 요통 사지마비	<ul style="list-style-type: none"> Gallic acid Corilagin Helioscopinin B Geraniin Bergenin Norbergenin 11-O-galloylnorbergenin Gallocatechin Rutin Tercatain 4-O-Galloylnorbergenin (+)-Catechin Isoquercitrin 	<ul style="list-style-type: none"> Gallic acid(항종양제,수렴제) Bergenin(진해제,위궤양치료) Geraniin (Inhibitor of protein kinase C.) (+)-Catechin (Antidiarrheal activity, 항궤양성분) Isoquercitrin(항균작용) 11-O-galloylnorbergenin (진통효과(동물실험)) 
여우구슬 ¹⁾ <i>Phyllanthus urinaria</i> L. (대극과)	전초, 해독제 이뇨제	<ul style="list-style-type: none"> 다량의 tannin 및 alkaloid 	
개풀 ⁶¹⁾ <i>Acalypha australis</i> L. (대극과)	전초, 해열 이뇨 변비 장염 피부염	<ul style="list-style-type: none"> Gallic acid Protocatechuic acid Caffeic acid Rutin Isoquercitrin Corilagin Furosin Geraniin 	<ul style="list-style-type: none"> Gallic acid(항종양제,수렴제) Protocatechuic acid (영양화학적저해제) Caffeic acid (항종양,항HIV,항산화활성) Isoquercitrin(항균작용) Geraniin (Inhibitor of protein kinase C.)

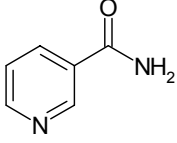
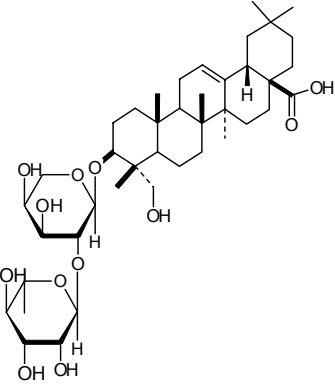

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
피마자 ¹⁵¹⁾ <i>Ricinus communis</i> L. (대극과)		<ul style="list-style-type: none"> • Alanine • Arginine • Aspartic acid • Astragalin • β-Amyrin • β-Carotene (all-trans) • 3-β-Hydroxy-30-nor-lupan-20-one • β-Sitosterol • Brassicasterol • Campesterol • Casbene • Casbene synthetase • Chlorogenic acid • Chlorophyll A ,B • 6,8-Dihydroxy-3,4-dimethoxycoumarin • 6,7-Dihydroxy-8-methoxycoumarin • Enolase • Gallic acid • Glutamic acid • Hemagglutinin • Hyperoside • Indole-3-acetic acid • Isoquercitrin 	<ul style="list-style-type: none"> • Astragalin (면역자극) • Gallic acid (항종양제,수렴제) • Glutamic acid (Human systemic effects) • Isoquercitrin(항균작용) • Methionine (항궤양제,해독제) • Quercetin-3-O-β-D-rutin oside (소염, 항부종, 항HIV활성) • Ricinus communis lectin A-1 (항종양성) • Ricinus communis lectin v (항종양성) • β-Carotene (all-trans) (비타민A활성저해) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Casbene (항진균성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Indole-3-acetic acid (식물생장호르몬) <div style="text-align: center;">  </div>

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Kaempferol-3-O-β-D-rutin- oside • Kaempferol-3-O-β-D-xylo- pyranoside • Leucine • Lupeol • Methionine • N-Demethylricinine • Neochlorogenic acid • Proline (S-form, L-form) • Protocatechuic acid • Quercetin • Quercetin-3-O-β-D-rutinoside • Quinic acid • Ricin • Ricin γ • Ricinine • Ricinitin • Ricinus agglutinin • Ricinus agglutinin RCL-1 • Ricinus agglutinin RCL-2 • Ricinuscommunis α-lectin • Ricinuscommunis glycoprotein CB-1-A • Ricinus communis lectin • Ricinuscommunis phytoagglutinin • Tryptophan • (-)-Tyrosine (S-form) • Valine • Vitamin B6 • Vitamin B1 	<ul style="list-style-type: none"> • Lupeol(항종양제)  <ul style="list-style-type: none"> • Quinic acid (Trysin inhibitor)  <ul style="list-style-type: none"> • (-)-Tyrosine (S-form) (기형발생효과) 

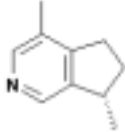
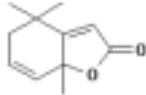
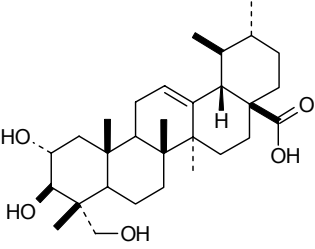
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
등대풀 ¹⁵¹⁾ <i>Euphorbia helioscopia</i> L. (대극과)	전초, 하제 이뇨제 진통약 해독약 수렴약	<ul style="list-style-type: none"> • Astragalin • β-Dihydrofucosterol • β-Eudesmol • Carpinusin • Corilagin • Cyanidin 7-O-glycoside • Delphinidin 7-glycoside • 20-Deoxy-3-O-benzoylingenol • 20-Deoxy-5-O-benzoylingenol • 12-Deoxyphorbol • 12-Deoxyphorbol 13-O-tiglate • 12-Deoxyphorbol13-O-tiglate-20-acetate • 12-Deoxyphorbol13-phenyl-acetate-20-acetate • 12-Deoxyphorbol-13-dodeca-dienoate-20-acetate • 12-Deoxyphorbol-13-(2-methyl-but-cis-2-enoate)-20-acetate • 3,5-Dihydroxyphenylglycine • 10,10-Dimethylhexacosan-7-one • 1,6-Di-O-galloyl-β-D-glucopyranoside • Elaeocarpusin • Epieuphoscopin • Euphohelin • Euphohelionone • Euphohelioscopin • Euphorbia factor • Euphorhelin • Euphornin • Euphornin • Euphorscopin • Euphoscopin • Furosin 	<ul style="list-style-type: none"> • Astragalin(면역자극) • IsoquercitrinIsoquercitrin (이뇨작용) • Kaempferol (항염작용, 이뇨작용) • Quercetin (항산화, 항암활성, anti-HIV활성) • Quercitrin (항바이러스, 진경제) • Succinic acid(눈자극) • Corilagin (독성)

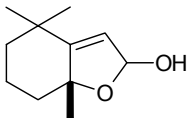
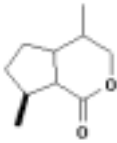
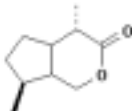
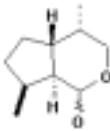
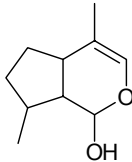
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Gallic acid • Geraniin • Helioscopin A ,B • Helioscopinin A ,B • Helioscopinolide A, B, C • Helioscopiol • Heliosin • Hyperoside • Isoquercitrin • Kaempferol • Mallotusin • 13-(2-Methyl-but-cis-2-enoate)-12-deoxyphorbol • m-Hydroxyphenylglycine • 3-O-Angeloylingenol • 3-O-Deca-2,4,6-trienoylingenol • 3-O-Dodeca-2,4,6,8-tetraenoylingenol • Punicafolin • Quercetin • Quercetin-3-O-β-D-galactoside-2'-gallate • Quercitrin • Rubber • Succinic acid • Terchebin • 1,2,3,6-Tetra-O-galloyl-β-D-glucopyranose • 1,3,4,6-Tetra-O-galloyl-β-D-glucose • Tithymalin • 1,2,6-Tri-O-galloyl-β-D-glucose 	

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
붉나무 ^{62, 151)} <i>Rhus chinensis</i> Mill. (욱나무과)	잎, 수피 수렴제 동상 화상	<ul style="list-style-type: none"> • Demethoxykanugin • Ovalitenone • Ellagic acid • Gallic acid • Shikimic acid • Quercitrin • Myricitrin • Gallotannin • Methyl gallate • 1,2,3,4,6-Penta-O-galloyl-β-D-glucose • Orcinol • Orcinol-β-D-glucoside • Scopoletin • Scopolin 	<ul style="list-style-type: none"> • Gallic acid (항종양제, 수렴제) • Ellagic acid (간장보호, 수렴제, 항산화, 항종양활성) • Quercitrin (항바이러스, 진경제) • Gallotannin (수렴제, 지혈제) • Scopoletin(진경제) • Orcinol(독성) 
감탕나무 ¹⁾ <i>Ilex integra</i> Thunberg (감탕나무과)	수피, 치질 혈압강하제	<ul style="list-style-type: none"> • α-Amyrin • β-Amyrin • Lupeol • Palmitic acid 	<ul style="list-style-type: none"> • β-Amyrin(항생제) • Lupeol(항종양제) • Palmitic acid(독성)
사철나무 ^{63, 64)} <i>Euonymus japonicus</i> Thunberg (노박덩굴과)	수피, 월경통 살충작용 혈압강하 (가토)	<ul style="list-style-type: none"> • Ebenifoline W- I • Eujaponine N 	

일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
화살나무 ^{65, 66, 151)} <i>Euonymus alatus</i> (Thunb.) Sieb. (노박덩굴과)	줄기, 소화기궤양 항종양 관절염 당뇨병	<ul style="list-style-type: none"> • β-Sitosterol • β-Sitosterone • Dulcitol • Friedelin • Nicotinamide • Stigmast-4-en-3,6-dione • 24-ethyl-cholest-5-en-3β-ol • 4,24-dimethyl-cholestan-3β-ol 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Nicotinamide(조효소) 
무환자나무 ¹⁵¹⁾ <i>Sapindus mukorossi</i> Gaertn. (무환자나무과)	과피, 지혈 거담 하열	<ul style="list-style-type: none"> • Arachidic acid • β-Amyrin • 3-β,17-β-Dihydroxy-28-nor-12-oleanene • 11-Eicosenoic acid (Z) • 3,23-Ethylidenehederagenin • Lauric acid • Linolenic acid • Mukrozisaponin Z-1 • Mukrozisaponin Z-2 • Mukurozioside • Mukurozisaponin • Oleic acid • Palmitic acid • Sapindoside A, B, C • Sapindus mukorossi sesquiterpene diglycoside 2-B • Spindus mukurossi saponin • Stearic acid 	<ul style="list-style-type: none"> • β-Amyrin(항생제) • Lauric acid(독성) • Oleic acid(유화제) • Palmitic acid(독성) • Stearic acid(피부독성) • Spindus mukurossi saponin A (항생제) • Sapindoside A(항균활성)  <ul style="list-style-type: none"> • Sapindus mukorossi sesquiterpene diglycoside 2-B(항생제활성) 

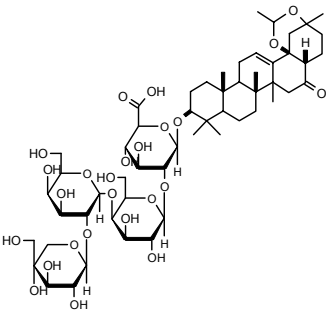
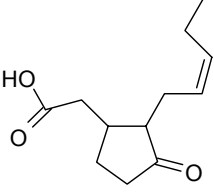
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
물봉선 ^{67, 68)} <i>Impatiens textorii</i> Miquel (봉선화과)	전초, 사독 타박상	<ul style="list-style-type: none"> • luteoline (5,7,3',4',-tetrahydroxyflavone) • Apigenin (5,7,4'-trihydroxyflavone) • Chrysoeriol(5,7,4'-trihydroxy-3'-methoxyflavone) • Chrysoeriol 7-glucoside(5,4'-dihydroxy-3'-methoxyflavone-7-O-β-D-glucopyranoside) • Apigenin 7-O-glucoside (5,7,4-trihydroxyflavone-7-O-β-D-glucopyranoside) • Luteoline 7-O-glucoside (5,7,3',4'-tetrahydroxyflavone-7-O-β-D-glucopyranoside) 	<ul style="list-style-type: none"> • Luteolin(소염제) • Apigenin(독성)
담쟁이덩굴 ^{1, 69)} <i>Pathenocissus tricuspidata</i> (Sieb.et Zucc) Planch (포도과)	잎, 지혈 진통 관절염 황달	<ul style="list-style-type: none"> • Miquelianin (Quercetin-3-O-β-D-glucuronide) • Isoquercitrin • Parthenosin • Delpinidin • Quercetin-3-O-β-D-glucuronopyranoside) • Quercetin-3-O-β-D-glucopyranoside) • Quercetin-3-O-(6"-n-butyl)-β-D-glucuronopyranoside) 	<ul style="list-style-type: none"> • Isoquercitrin (이뇨작용)
거지덩굴 ¹⁾ <i>Cayratia japonica</i> (Thunberg) Gagnepain (포도과)	뿌리, 전초 이뇨 소염 해독 황달 설사약	<ul style="list-style-type: none"> • Cayratinin • Delpinidin 	

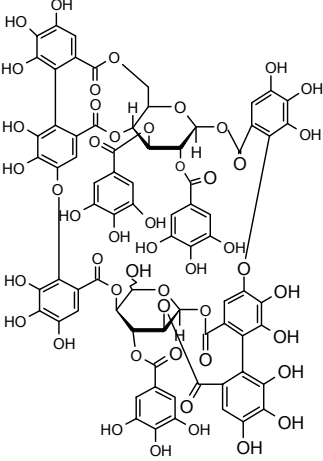
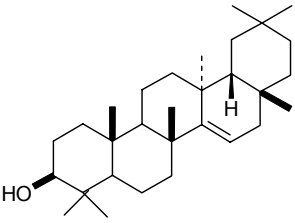
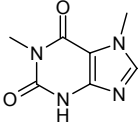
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>아욱¹⁵¹⁾ <i>Malva verticillata</i> L. (아욱과)</p>	<p>종자, 이뇨 완하 최유 점활약</p>	<ul style="list-style-type: none"> · Malva acidic polysaccharide MVS-III-A · Malva acidic polysaccharide MVS-IV-A · Malva polysaccharide MVS-1 · Malva polysaccharide MVS-V · Malva polysaccharide MVS-VI · Polysaccharide MVS-IIA · Polysaccharide MVS-IIG 	<ul style="list-style-type: none"> · Malvaacidicpolysaccharide MVS-III-A(식세포활성) · Malva acidic polysaccharide MVS-IV-A (식세포활성) · Malva polysaccharide MVS-1(면역학적활성) · Malva polysaccharide MVS-VI (식세포활성)
<p>개다래¹⁵¹⁾ <i>Actinidia polygama</i> (Sieb.et Zucc.) Maxim. (다래나무과)</p>	<p>과실, 진통 해열</p>	<ul style="list-style-type: none"> · Acetylursolic acid · Actinidialactone · Actinidine (S-form) · Actinidiolide · Actinidol · 2α,3α-Dihydroxyurs-12-en-24-al-28-oic acid · 2-α,3-α,23,24-Tetrahydroxyurs-12-en-28-oic acid · 2-α,3-α,23-Trihydroxyursa-12,20(30)-dien-28-oic acid · 2-α,3-α,24-Trihydroxyurs-12-en-23,28-dioic acid · 2-α,3-α,23-Trihydroxyurs-12-en-28-oic acid · 2-α,3-α,24-Trihydroxyurs-12-en-28-oic acid · 2-α,3-β,24-Trihydroxyurs-12-en-28-oic acid · 2α,23-Dihydroxy-3β-(trans-p-coumarolyoxy)-urs-12-ene-28-oic acid · Asiatic acid · Corosolic acid · Dehydroiridodial · Dehydroiridodiol · Dehydroiridomyrmecin 	<ul style="list-style-type: none"> · Actinidine (S-form) (felidae 유인제)  <ul style="list-style-type: none"> · Actinidiolide (고양이의 생리활성물질)  <ul style="list-style-type: none"> · Asiatic acid(상처약) 

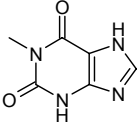
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Dihydroactinidiolide(R-form) • Dihydroepinepetalactone • Dihydroisonepetalactone • Dihydronepetalactone • Iridomyrmecin • Isoactinidialactone • Isodehydroiridomyrmecin • Isodihydroepinepetalactone • Isoepiiridomyrmecin • Isoiridomyrmecin • Isonematatabiol • (+)-Isononepetalactone • Kaempferol-3-O-[α-rhamnopyranosyl-(1->4)-α-rhamnopyranosyl-(1->6)-β-galactopyranoside] • Loliolide • Matatabiether • Neomatatabiol • Neonepetalactone • Nepetalactone • Quercetin-3-O-[α-rhamnopyranosyl-(1->4)-α-rhamnopyranosyl-(1->6)-β-galactopyranoside] • 2,3,13,24-Tetrahydroxy-11-ursen-28-oic acid 28-13 Lactone • 2,3,23,24-Tetrahydroxy-12-ursen-28-oicacid;23-Carboxylic acid • Ursolic acid 	<ul style="list-style-type: none"> • Ursolic acid(이노제) • Dihydroactinidiolide(R-form) (불개미의 여왕벌인식페로몬 성분)  • Dihydronepetalactone (고양이 유인물질)  • Iridomyrmecin (살충성개미분비물)  • Neomatatabiol (수컷칠성무당벌레유인물질)  • Nepetalactone(벌레퇴치제) 

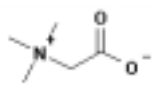
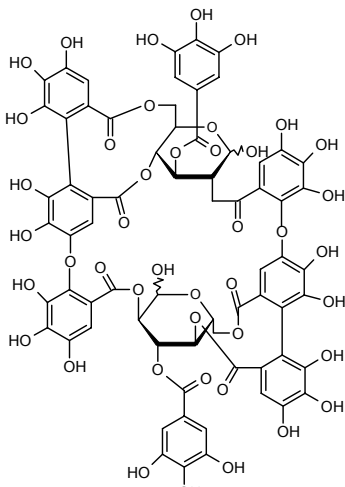
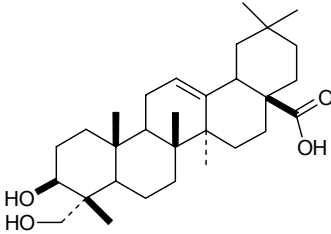
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>다래¹⁵¹⁾ <i>Actinidia arguta</i> (Sieb.et Zucc.) Planch.ex Miq. (다래나무과)</p>	<p>과실 지갈 이뇨제</p>	<ul style="list-style-type: none"> • Kaempferol-3-O-[α-L-rhamnopyranosyl(1->4)-α-L-rhamnopyranosyl(1->6)-β-D-galactopyranoside] • Kaempferol-3-O-[α-L-rhamnopyranosyl-(1->4)-α-L-rhamnopyranosyl-(1->6)-β-D-glucopyranoside] • Kaempferol-3-O-(α-rhamnopyranosyl(1->4)-α-rhamnopyranosyl(1->6)-β-glucopyranoside) • Kaempferol-3-O-(α-rhamnopyranosyl(1->4)-3''-O-acetyl-α-rhamnopyranosyl(1->6)-β-galactopyranoside) • Kaempferol-3-O-(α-rhamnopyranosyl-(1->4)-3''-O-acetyl-α-rhamnopyranosyl-(1->6)-β-galactopyranoside) • Oleanolic acid • 3,3',4',5,7-Pentahydroxyflavone-3-O-[β-D-Xylopyranosyl-(1->2)-β-D-glucopyranoside] • Quercetin-3-β-D-(2-O-β-D-xylopyranosyl-6-O-α-L-rhamnopyranosyl)glucopyranoside • Quercetin-3',4'-di-methyl ether • Quercetin-3-O-[α-rhamnopyranosyl(1->4)-α-L-rhamnopyranosyl(1->6)-β-D-galactopyranoside] • Succinic acid • Ursolic acid 	<ul style="list-style-type: none"> • Oleanolic acid (항궤양성) • Succinic acid(눈자극) • Ursolic acid (이뇨작용, 항종양성)

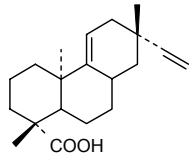
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
후피향나무 70) <i>Ternstroem</i> <i>-ia japonica</i> Thunberg (차나무과)	열매, 심통(心痛) 풍비(風痺)	<ul style="list-style-type: none"> · 16-O-Tigloyl-camelliagenin A · 22-O-Tigloyl-A₁-barrigenol · Primulagenin A · Camelliagenin A · 28-O-Tigloyl-A₁-barrigenol · A₁-barrigenol · 3β,15α,16α,28-Tetrahydroxy-olean-12-ene · 3-O-[β-D-Glucopyranosyl(1→2)][α-L-rhamnopyranosyl(1→2)-β-D-galactopyranosyl(1→3)]-β-D-glucuronopyranosyl primulagenin A · 3-O-[β-D-Glucopyranosyl(1→2)][α-L-rhamnopyranosyl(1→2)-β-D-galactopyranosyl(1→3)]-β-D-glucuronopyranosyl A₁-barrigenol · 3-O-[β-D-Glucopyranosyl(1→2)][α-L-rhamnopyranosyl(1→2)-β-D-galactopyranosyl(1→3)]-β-D-glucuronopyranosyl camelliagenin A · 3-O-[β-D-Glucopyranosyl(1→2)][α-L-rhamnopyranosyl(1→2)-β-D-galactopyranosyl(1→3)]-β-D-glucuronopyranosyl 16-O-acetyl camelliagenin A · 3-O-[β-D-Glucopyranosyl(1→2)][α-L-rhamnopyranosyl(1→2)-β-D-galactopyranosyl(1→3)]-β-D-glucuronopyranosyl 3β,15α,16α,28-tetrahydroxy-olean-12-ene · 3-O-[β-D-Glucopyranosyl(1→2)][α-L-rhamnopyranosyl(1→2)-β-D-galactopyranosyl(1→3)]-β-D-glucuronopyranosyl 28-O-β-D-glucopyranosyl 3β,15α,16α,28-tetrahydroxy-olean-12-ene · 3-O-[β-D-Glucopyranosyl(1→2)][α-L-rhamnopyranosyl(1→2)-β-D-galactopyranosyl(1→3)]-β-D-glucuronopyranosyl 28-O-β-D-glucopyranosyl 16-O-acetyl primulagenin A 	

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
동백나무 ¹⁵¹⁾ <i>Camellia japonica</i> L. (차나무과)	종자유, 꽃 연고제 이뇨제 수렴제 지혈제 정장제	<ul style="list-style-type: none"> • α-Amyrin • α-Spinasterol • β-Amyrin • Camelledionol • Camellenodiol • Camelliasaponin A₁, A₂, B₁, B₂, C₁, C₂ • Camelliatannin A, B, C, D, E, F, G, H, • Camellidin I, II, III • Camelliin B • Casuariin • (+)-Catechin • Dammaradienol • 7-Dehydrositosterol • (-)-Epicatechin • Eugeniin • Eugenol • Euphol • Formic acid • Gallic acid • Gemin D • Germanicol • Jasmonic acid • Jasmonic acid methyl ester • Kaempferol • Lupeol • Malic acid • Maragenin I, II • 24-Methylenedammarenol • Monogynol A • Myricadiol • 28-Nor-3-β-acetoxy-olean-17-en-16-on-12,13-epoxide • Pedunculagin 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • β-Amyrin(항생제) • (+)-Catechin (Antidiarrheal activity, 항궤양성분) • (-)-Epicatechin (항산화작용) • Eugenol(항진균, 방부제) • Gallic acid (항종양제, 수렴제) • Kaempferol (항염작용, 이뇨작용) • Lupeol(항종양제) • Malic acid (피부, 눈자극) • Pedunculagin(항산화작용) • p-Hydroxybenzoic acid (성장저해, 트립신저해작용) • Eugeniin(항바이러스성) • Camellidin I(항진균제) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Jasmonic acid(Phytotoxin) <div style="text-align: center;">  </div>


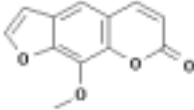
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Phenylacetaldehyde • p-Hydroxybenzoic acid • Procyanidin B3, B4,, B5, C1 • Protocatechuic acid • Pseudotaraxasterol • Quercetin • Quinic acid • Sasanquin • Sexangularetin • 2,3-(S)-Hexahydroxydiphenoyl-D-glucopyranoside • Stigmasterol-3-O-β-D-glucopyranoside • Succinic acid • Taraxasterol • 14-Taraxeren-3-ol(3β-form) • Tellimagrandin I • Theanine (L-form) • Tirucalla-7,24-diene-3-β-ol • Tirucalla-7,24-dienol • Tirucalol • 3,3',4'-Trimethoxyellagic acid 	<ul style="list-style-type: none"> • Protocatechuic acid (영양화학적저해제) • Quercetin (항산화,항암활성,anti-HIV활성) • Quinic acid (Trysin inhibitor) • Succinic acid(눈자극) • Camelliin B(항종양활성)  <ul style="list-style-type: none"> • 14-Taraxeren-3-ol (3β-form) (항궤양성) 
<p>차나무¹⁵¹⁾ <i>Thea sinensis</i> L. (차나무과)</p>	<p>잎, 강심 이뇨제 수렴제</p>	<ul style="list-style-type: none"> • Caffeine • Theophylline • Xanthine • (-)epigallocatechin gallate • Myricetin-3-O-β-D-galactopyranoside 	<ul style="list-style-type: none"> • Caffeine (Adenosine receptor antagonist) 

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Syringaresinol 	<ul style="list-style-type: none"> • Theophylline (근육이완, 이뇨, 심장자극) 
우묵사스레피 ⁷¹⁾ <i>Eurya emarginata</i> (Thunb.) Makino (차나무과)	잎, 종양억제	<ul style="list-style-type: none"> • Quercitrin 	<ul style="list-style-type: none"> • Quercitrin (항바이러스, 진경제)
물레나물 ⁷²⁾ <i>Hypericum ascyron</i> L. (물레나물과)	전초, 지혈 상처치료	<ul style="list-style-type: none"> • β-Sitosterol • Campesterol • Stigmasterol • 위 세sterol의3-O-glucoside • Kaempferol • Quercetin • Isoquercitrin • 6'-O-Acyl sterol glucoside (지방산조성:palmitic acid, stearic acid, oleic acid, linoleic acid) 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Kaempferol (항염작용, 이뇨작용) • Quercetin (항산화, 항암활성, anti-HIV활성) • Isoquercitrin(이뇨작용)
고추나물 ⁷³⁾ <i>Hypericum erectum</i> Thunberg (물레나물과)	전초, 창상 타박상	<ul style="list-style-type: none"> • Quercitrin • Isoquercitrin • Hyperoside • Orientin 	<ul style="list-style-type: none"> • Quercitrin (항산화, 항암활성, anti-HIV활성) • Isoquercitrin(이뇨작용) • Hyperoside (혈관확장제, 고혈압치료제) • Orientin(항산화활성)
제비꽃 ¹⁾ <i>Viola mandshurica</i> W.Becker (제비꽃과)	지상부, 소염 배농약	<ul style="list-style-type: none"> • Orientin • Isoorientin 	<ul style="list-style-type: none"> • Orientin(항산화활성)

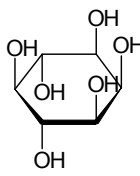
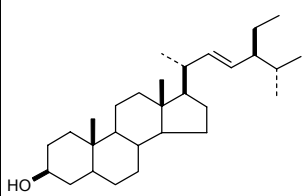
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요 생리활성)
선인장 ^{74, 75)} <i>Opuntia</i> <i>ficus-indica</i> var.saboten (선인장과)	뿌리, 줄기, 열매 화상 부종 위장장애 늑막염 항염작용	<ul style="list-style-type: none"> • Anhalinin • Indicaxanthine • Isobetain • Betain • Saponin • (+)-Trans-dihydrokaempferol • (+)-Trans-dihydroQuercetin 	<ul style="list-style-type: none"> • Betaine (세포의 삼투압조절에 작용) 
부처꽃 ¹⁵¹⁾ <i>Lythrum</i> <i>anceps</i> (Koehne) Makino (부처꽃과)	전초, 수렴제 지사제	<ul style="list-style-type: none"> • Castalagin • Salicarin • Lythramine • Choline • Lythrancepine I, II, III • Lythrancine I, II, III, IV • Lythranidine • Lythranine • Oenothain B 	<ul style="list-style-type: none"> • Oenothain B 
여뀌바늘 ⁷⁶⁾ <i>Ludwigia</i> <i>prostrata</i> Roxburgh (바늘꽃과)	전초, 해열 이뇨 소종	<ul style="list-style-type: none"> • Orientin (luteolin-8-C-glucoside) 	<ul style="list-style-type: none"> • Orientin(독성)
송악 ^{1, 77)} <i>Hedera</i> <i>rhombea</i> Bean. (두릅나무 과)	잎, 과실 진정 작용 항진균성 간염 타박상 류머티스 성관절염	<ul style="list-style-type: none"> • Hederagenin • 3-Caffeoyl quinic acid • 4,5-di-O-caffeoyl quinic acid • 3,4-di-O-caffeoyl quinic acid • Methyl 3,5-di-O-caffeoyl quinic acid • Methyl 3,4-di-O-caffeoyl quinic acid • Hederin • Kizutasaponin 	<ul style="list-style-type: none"> • Hederagenin (Epicarcinogen inhibitor) 

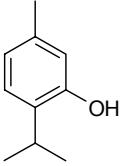
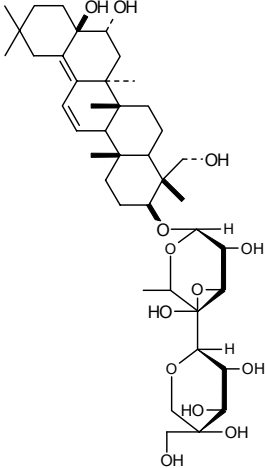
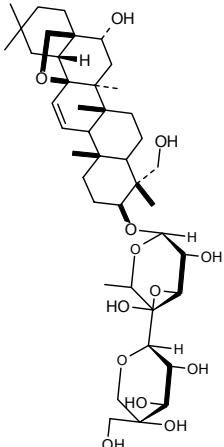
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>음나무 78, 79, 151)</p> <p><i>Kalopanax pictus</i> Nakai (두릅나무과)</p>	<p>수피, 요통 제습(除濕) 활혈(活血)</p>	<ul style="list-style-type: none"> • Chlorogenic acid • Clematissaponin CP-1 • Clematissaponin CP-3-B • Coniferin • Glucosyringic acid • Hederasaponin B • Kalopanaxin A ,B, C, D • Kalopanaxsaponin G • Kalopanaxsaponin JLa, JLb • Kizutasaponin K11 • Liriodendrin • Pericarpsaponin Pk • Protocatechuic acid • (-)-Syringaresinol-4,4'-bis-O-β-D-glucopyranoside • Syringin • Oxalic acid • Neochlorogenic acid • Scopoletin • Rutin • Kaempferoglycoside • Quercitrin • Hyperin 	<ul style="list-style-type: none"> • Chlorogenic acid (serum triglyceride저해) • Liriodendrin (adenosine 3',5'-cyclic monophosphate phosphodiesterase 활성저해) • Protocatechuic acid (영양화학적저해제) • Scopoletin(진경제) • Quercitrin (항바이러스,진경제) • Hyperin (혈관확장제,고혈압치료제)
<p>섬오갈피 80, 81, 82)</p> <p><i>Acanthopanax koreanum</i> Nakai (두릅나무과)</p>	<p>근피, 수피 중풍 신경통 고혈압</p>	<ul style="list-style-type: none"> • Oxalic acid • Neochlorogenic acid • Scopoletin • Rutin • Kaempferoglycoside • Chlorogenic acid • (-)Syringaresinol diglucoside • Acanthoic acid • Acanthoside D • Syringoside • Ariensin 	<ul style="list-style-type: none"> • Scopoletin(진경제) • Acanthoic acid (진통,소염작용) <div style="text-align: center;">  <p>COOH</p> </div>

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Falcarinol • Isopimara-9(11),15-diene-19-ol • Elutheroside E, B • Falcarindol • Methyl n-hexacosanoate • Methyl linolate • Coniferin • Pimaradiene diterpene • Sumogaside • Acanthodiol triglycoside • (-)Kau-16-en-oic acid • Methyl hexacosanate • Methyl linolate • Coniferin • (-)Pimara-9(11),15-diene-19-ol • (-)Pimara-9(11),15-duene-19-oic acid • (-)Pimara-9(11),15-diene-19-ol acetate • (-)Pimara-9(11),15-diene • Ent16β-17-dihydroxy-(-)kauran-19-oic acid • 19-β-D-Glucopyranosyl ester of 15,16-dihydroxy, (-)pimar-9(11)-enoic acid 	
<p>독활¹⁵¹⁾ <i>Aralia cordata</i> Thunberg (두릅나무과)</p>	<p>뿌리, 해열 진통 강장</p>	<ul style="list-style-type: none"> • Alanine • (-)-α-Copaene • α-Ocimene • α-Pinene(+,-) • Angelol B • Asparagine (S-form, L-form) • Aspartic acid • Bergapten • (+)-β-Pinene 	<ul style="list-style-type: none"> • Oleanolic acid(항궤양성) • α-Pinene(+,-) (딱정벌레 울음유발)) • Chlorogenic acid (serum triglyceride저해) • Glutamic acid (체내 시스템적효과)

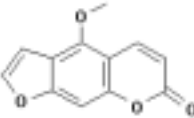
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> · 3-Carene · Chlorogenic acid · Columbianadin · Columbianetin · Columbianetin acetate · Dihydrojatamansin · dl-5-[(2E)-5-Hydroxy-3,7-dimethyl-2,6-octadienyloxy]psoralen · 5-[(2E,5E)-3,7-Dimethyl-2,5,7-octatrienyloxy]psoralen · 5-[(2E,5E)-7-Hydroxy-3,7-dimethyl-2,5-octadienyloxy]psoralen · ent-16-β,17-Dihydroxy-19-kauranoic acid · ent-Primara-8(14),15-dien-19-oic acid · Ferulin · Glutamic acid · Isoimperatorin · Jatamansin · Kaurenoic acid · Leucine · Nerolidol · 3-O-β-D-Glucuronopyranosyloleanolic acid · O-Isovalerylcolumnbianetin · Oleanolic acid · Ostheno · Osthonol · p-Cymene · Peonidin 3-lathyroside · Phellopterin · Terpinen-4-ol · trans-Sabinene hydrate (1R,4R,5R) · (-)-Tyrosine (S-form) · Udosaponin A methyl ester · Xanthotoxin 	<ul style="list-style-type: none"> · Nerolidol (향수성분) · Oleanolic acid (항궤양성) · p-Cymene (독성) · (+)-β-Pinene (피부자극독성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Xanthotoxin (소염제, 진경약) <div style="text-align: center;">  </div>

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
두릅나무 ^{83, 151)} <i>Aralia elata</i> (Miq.) Seemann (두릅나무과)	수피, 근피 신경통 당뇨병 신장병 정장제 항위염 항궤양성	<ul style="list-style-type: none"> • β-Sitosterol • Caraganoside A • Daucosterol • Elatoside B ,D, G, H • Hederagenin-3-O-[α-L-rhamnopyranosyl-(1->2)-α-L-arabinopyranosyl]-28-O-β-D-xylopyranosyl-(1->6)-β-D-glucopyranosyl ester • Hederagenin-3-O-β-D-glucopyranosyl(1->3)-α-L-rhamnopyranosyl(1->2)-α-L-arabinopyranosyl-28-O-β-D-glucopyranosyl(1->6)-β-D-glucopyranosylester • 1-Hexacosene • 3-O-α-L-Rhamnopyranosyl(1->2)-α-L-arabinopyranosyl-oleanolic acid-28-O-β-D-xylopyranosyl(1->6)-β-D-glucopyranosyl ester • 3-O-β-D-Glucopyranosyl(1->3)-α-L-rhamnopyranosyl(1->2)-α-L-arabinopyranosylhederagenin • 28-O-β-D-Glucopyranosyloleanolic acid • Oleanolic acid • Panax saponin C • Quercitrin • Stigmasterol • Tarasaponin II ,III, IV 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Daucosterol (항종양성, 전립선비대치료제) • Oleanolic acid (항궤양성) • Quercitrin (항바이러스, 진경제)



일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
병풀 ¹⁵¹⁾ <i>Centella asiatica</i> (L.) Urbain (산형과)	지상부, 황달 토혈 외상출혈	<ul style="list-style-type: none"> • Asiaticoside • Asiaticoside B • Brahmic acid • Centoic acid (struct. unknown) • Isothankunic acid • Kaempferol • Madasiatic acid • Mesoinositol • Quercetin • Rhamnose 	<ul style="list-style-type: none"> • Kaempferol (항염작용, 이노작용) • Quercetin (항산화, 항암활성, anti-HIV 활성) • Mesoinositol (동물, 미생물생장인자) 
시호 ¹⁵¹⁾ <i>Bupleurum falcatum</i> L. (산형과)	뿌리, 해열 해독 진통 진정	<ul style="list-style-type: none"> • Adonitol • α-Spinasterol • α-Spinasterol acetate • Anomalin • β-Sitosterol • Bupleuran BR-2 ,BR-3, BR-4, BR-5 • Bupleuran 2-IIIb , 2-IIc • Bupleurum pectic polysaccharide • Campesterol-7-en-3-β-ol • Chikusaikoside I • Chikusaikoside II • C-3''-O-Acetylsaikosaponin D • 5-Hydroxy-2-hydroxymethyl-7-methoxy-4(H)-1-benzopyran-4-one • 3-(4-Hydroxyphenyl)-2-propen-1-ol; 4'-Me ether, 1-O-[2-(angeloyloxymethyl)-2Z-butenoyl] • Hydroxysaikosaponin C • Longispinogenin • Malonylsaikosaponin A, D 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Bupleuran BR-2 (항궤양성) • Stigmast-22-en-3-β-ol (Chemotatic agent) 


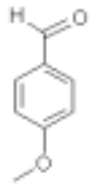
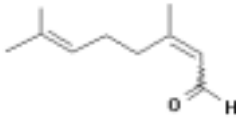
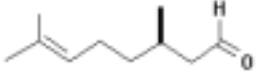
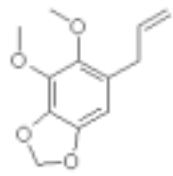
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • 3-Methyl-2-buten-1-ol; O-[β-D-Apiofuranosyl-(1->6)-β-D-glucopyranoside] • 3-Methyl-2-buten-1-ol; O-[β-D-Apiofuranosyl-(1->6)-β-D-glucopyranoside] • 24-Methylcholesta-7,22-diene-3,5,6-triol; (3-β,5-α,6-β,22E)-form • Nonacosan-10-one • Nortrachelogenin • 23-O-Acetylsaikosaponin A • 6''-O-Acetylsaikosaponin A ,B4 • 6'-O-Acetylsaikosaponin B4 • 6'-O-Acetylsaikosaponin D • 3'-O-Acetylsaikosaponin D • 6''-O-Acetylsaikosaponin D • 3-O-β-D-Glucopyranosyl-α-spinasterol • Parkeol • Pentadeca-cis-2-cis-9-diene-4,6-diyn-1-ol • Pentadeca-2,9-diene-4,6-diyn-1-ol-acetate • Saikochromone A • Saikodiyne A ,B, C • Saikogenin A,B,C,D,E,F,G • Saikosaponin A,B2,B1,B4,B3,C,D,E,F,H • Stigmast-22-en-3-β-ol • Stigmast-7-en-3-β-ol; (3-β,5-α,24R)-form • Stigmasterol • Thymol 	<ul style="list-style-type: none"> • Thymol (항박테리아성 방부제)  <ul style="list-style-type: none"> • Saikosaponin B2 (콜레스테롤저하,이뇨,해열)  <ul style="list-style-type: none"> • Saikosaponin D (소염제,혈소관응집작용) 

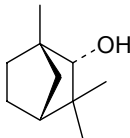
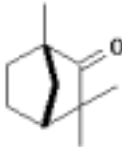

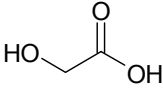
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
<p>사상자 84, 85, 151)</p> <p><i>Torilis japonica</i> (Houtt.) DC. (산형과)</p>	<p>열매, 수렴제 항염제</p>	<ul style="list-style-type: none"> • Chrysoeriol-7-O-β-D-glucopyranoside • 8,11-Dihydroxy-4-guaien-3-one; (1α,8α,10β)-form,8-O-β-D-Glucopyranoside, 11-Ac • 8,11-Dihydroxy-4-guaien-3-one; (1β,8α,10β)-form,8-O-β-D-Glucopyranoside • 8,11-Dihydroxy-4-guaien-3-one; (1β,8α,10β)-form,8-O-β-D-Glucopyranoside, 11-Ac • 8,11-Dihydroxy-4-guaien-3-one; (1β,8β,10β)-form, 8-Ketone, 11-O-β-D-glucopyranoside • 8,11-Dihydroxy-4-guaien-3-one; (1β,8β,10β)-form,11-O-β-D-Glucopyranoside • 10,11-Epoxy-2,7-guaianediol; (1α,2α,4α,5β,10β)-form, 2-O-β-D-Glucopyranoside • 10,11-Epoxy-2,7,8-guaianetriol; (1α,2α,4α,5β,8β,10β)-form, 2-O-β-D-Glucopyranoside • 10,11-Epoxy-2,7,12-guaianetriol; (1α,2α,4α,5β,10β,11R)-form, 2-O-β-D-Glucopyranoside • 1,8-Epoxy-p-menthan-2-ol; (1S,2S,4R)-form,O-[β-D-Apiofuranosyl-(1->6)-β-D-glucopyranoside] • Germacra-4(15),trans-5,10(14)-trien-1-β-ol (-) • (-)-Germacrene D 	<ul style="list-style-type: none"> • Torilin (진통,소염작용)

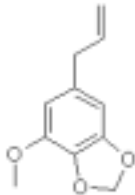

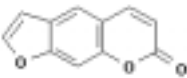
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • 10,11,15-Guaianetriol;(1α,4α,5β,10β)-form,11-O-β-D-Glucopyranoside • 2-Hydroxymethyl-1,2,3,4-butanetetrol;(R)-form • Luteolin-7-O-β-D-rutinoside • Oppositane A ,B, C, D, E • Oxytorilolide • Torilolide 	
미나리 ^{86, 151)} <i>Oenanthe javanica</i> DC. (산형과)	전초, 황달 고혈압 소변불리 간기능회복 소염	<ul style="list-style-type: none"> • p-Hydroxyphenethyl trans-ferulate • β-Sitosterol glucoside • Stigmasteryl glucoside • Isorhamnetin • Hyperin 	<ul style="list-style-type: none"> • Hyperin (혈관확장제, 고혈압 치료제)
갯방풍 ^{87, 151)} <i>Glehnia littoralis</i> Fr.Schmidt (산형과)	뿌리, 발한 해열 진통	<ul style="list-style-type: none"> • β-Sitosterol • Bergapten • 2,9-Bornanediol; 2-O-[β-D-Apiofuranosyl-(1->6)-β-D-glucopyranoside] • 2,5-Bornanediol; (1S,2R,5S)-form, 2-O-[β-D-Apiofuranosyl-(1->6)-β-D-glucopyranoside] • Cyanidin-3-O-[6-O-trans-feruloyl-β-D-glucopyranosyl-2-O-β-D-xylopyranosyl-β-D-glucopyranoside] • 2,3-Dihydro-2-(1-hydroxy-1-methylethyl)-7H-furo[3,2-g][1]benzopyran-7-one; (S)-form, O-[β-D-Apiofuranosyl-(1->6)-β-D-glucopyranoside] • 8-(3,7-Dimethyl-6-oxo-2-octenyloxy)psoralen 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Bergapten (소염제, 항히스타민제) <div style="text-align: center;">  </div>

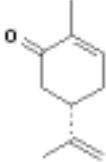

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • DNA • Falcalindiol • 8-Geranyloxyproralen • Heptadeca-1-cis-9-diene-4,6-diyne-3,8,11-triol • Heptadeca-1-trans-10-diene-4,6-diyne-3,8,9-triol • Imperatorin; 4'-β-D-Glucopyranosyloxy(E-) • Imperatorin; 4'-β-D-Glucopyranosyloxy(Z-) • 2-Methyl-3-buten-2-ol; O-[β-D-Apiofuranosyl-(1->6)-β-D-glucopyranoside] • 7-O-(3,3-Dimethyl-allyl)-scopoletin • Osthénol-7-O-β-gentiabioside • Peucedanol; (S)-form, 7-Me ether, 3'-O-[β-D-apiofuranosyl-(1->6)-β-D-glucopyranoside] • Peucedanol; (S)-form, 7-Me ether, 3'-O-β-D-glucopyranoside • Peucedanol; (S)-form, 3'-O-[β-D-Apiofuranosyl-(1->6)-β-D-glucopyranoside] • Peucedanol; (S)-form, 3'-O-β-D-Glucopyranoside • Peucedanol; (S)-form, 7-O-β-D-Glucopyranoside • p-Menth-1-ene-7,8-diol; (R)-form, 8-O-[β-D-Apiofuranosyl-(1->6)-β-D-glucopyranoside] • p-Menth-1-ene-7,8-diol; (S)-form, 8-O-[β-D-Apiofuranosyl-(1->6)-β-D-glucopyranoside] 	

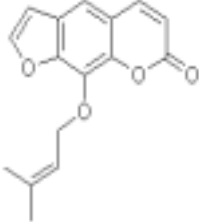
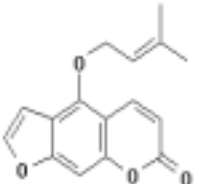
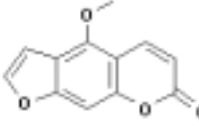

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
회향 ¹⁵¹⁾ <i>Foeniculum vulgare</i> Mill (산형과)	열매, 방향성건위 구풍 거담약	<ul style="list-style-type: none"> • Abscisic acid (S-form) • Acetylcholine • (+)-α-Fenchol acetate • (+)-α-Phellandrene (S) • α-Pinene(+,-) • (+)-α-Pinene • (+)-α-Pinene(1R) • α-Terpinene • Amyrolin • Anethole • Anisaldehyde • Anisic acid • Anisketone • Anisoxide • Anol • Bergapten • (+)-β-Fenchol acetate • (+)-β-Pinene • β-Sitosterol • 2,3-Butanediol; O-β-D-Glucopyranoside • Caffeic acid • Carvone • Chlorogenic acid • Choline • 1,8-Cineole • cis- Anethole • Citral • Citronellal; (R)-form • Citronellol; (R)-form • Columbianetin • 8,10-Dihydroxyfenchone; 10-O-β-D-Glucopyranoside • 9,10-Dihydroxyfenchone; 10-O-β-D-Glucopyranoside 	<ul style="list-style-type: none"> • Acetylcholine (신경 전달물질) • α-Pinene(+,-) (딱정벌레 울음유발) • α-Terpinene (향미제) • (+)-β-Pinene (피부자극독성) • β-Sitosterol (혈중지질저하제) • Caffeic acid (항종양, 항HIV, 항산화활성) • Chlorogenic acid (serum triglyceride저해) • 1,8-Cineole(방부제) • (+)-α-Phellandrene (S) <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> • (+)-α-Pinene (피부, 눈, 호흡기 자극) <div style="text-align: center; margin: 10px 0;">  </div>

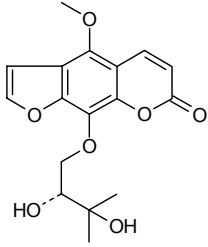

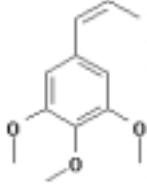
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • 6,9-Dihydroxyfenchone; (1R,3S,4S,6R)-form, 6-O-β-D-Glucopyranoside • Dillapiol • 3,7-Dimethyl-1-octene-3,8-diol; 8-O-β-D-Glucopyranoside • Dipentene • 1,8-Epoxy-p-menthane-2,6-diol; (1R,2R,4S,6S)-form, 6-O-β-D-Glucopyranoside • 1,8-Epoxy-p-menthane-2,5-diol; (1S,2R,4S,5R)-form • 1,8-Epoxy-p-menthane-2,5-diol; (1S,2S,4S,5R)-form • 1,8-Epoxy-p-menthane-2,5-diol; (1S,2S,4S,5R)-form, 2-O-β-D-Glucopyranoside • 1,8-Epoxy-p-menthan-4-ol; O-β-D-Glucopyranoside • 1,8-Epoxy-p-menthan-2-ol; (1R,2R,4S)-form, O-β-D-Glucopyranoside • 1,8-Epoxy-p-menthan-2-ol; (1R,2S,4S)-form, O-β-D-Glucopyranoside • 1,8-Epoxy-p-menthan-2-ol; (1S,2R,4R)-form, O-β-D-Glucopyranoside • Estragole • Eugenol • 2,6-Fenchenediol; (1R,2R,4S,6R)-form, 2-O-β-D-Glucopyranoside 	<ul style="list-style-type: none"> • Eugenol(항진균,방부제) • Bergapten (소염제,항히스타민제) • Anethole(구풍제,살충성) ▼ <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <ul style="list-style-type: none"> ▲ • Anisaldehyde(살충성) • Citral(피부자극독성) <div style="display: flex; justify-content: center; align-items: center;">  </div> <ul style="list-style-type: none"> • Citronellal; (R)-form (벌레퇴치,방향제) <div style="display: flex; justify-content: center; align-items: center;">  </div> <ul style="list-style-type: none"> • Dillapiol(살충성) <div style="display: flex; justify-content: center; align-items: center;">  </div>

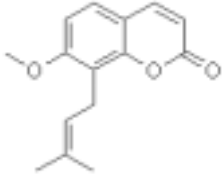
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • 2,5-Fenchenediol;(1R,2S,4R,5S)-form, 2-O-β-D-Glucopyranoside • 2,5,7-Fenchanetriol;(1S,2S,4R,5S,7S)-form, 2-O-β-D-Glucopyranoside • Fenchol • Fenchol acetate • (+)-Fenchone • Fenchone • Feniculin • Foeniculose I, II, III, IV, V, VI, VII, VII, VIII • γ-Terpinene • Geraniol • Guiajaverin • Hydroxyacetic acid • 5-Hydroxyfenchone; (1R,4R,5S)-form, O-β-D-Glucopyranoside • 6-Hydroxyfenchone; (1R,4S,6R)-form, O-β-D-Glucopyranoside • 10-Hydroxyfenchone; (1S,4R)-form, O-β-D-Glucopyranoside • 10-Hydroxylinalyl oxide; (3R*,6R*)-form, 7-O-β-D-Glucopyranoside • 10-Hydroxylinalyl oxide; (3R*,6S*)-form, 7-O-β-D-Glucopyranoside • Isoquercitrin • Isosyringinoside • Jasmonic acid • Kaempferol 	<ul style="list-style-type: none"> • Geraniol(피부자극독성) • Isoquercitrin (이노작용) • Kaempferol (항염작용, 이노작용) • Jasmonic acid (Phytotoxin) • Fenchol(향료)  • (+)-Fenchone(피부자극)  • γ-Terpinene (피부자극독성)  • Hydroxyacetic acid (이노제) 

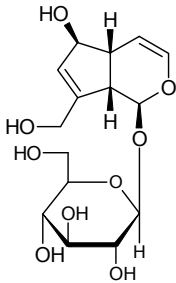
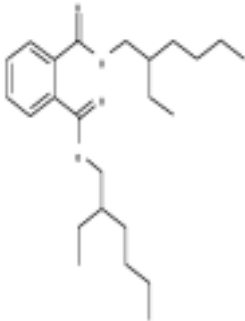
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> · Kaempferol-3-O-α-L-arabino-pyranoside · Kaempferol-3-O-β-D-glucuronide · Linalool · 7-Methyl-3-methylene-1,2,6,7-octanetetrol; (2R,6xi)-form, 2-O-β-D-Glucopyranoside · 7-Methyl-3-methylene-1,2,6,7-octanetetrol; (2xi,6xi)-form · Miyabenol C; (Z)-form · Myristicin · Octan-1-al · Osthénol · p-Cymene · p-Menthane-7,8-diol; (1RS,4RS)-form, 7-O-β-D-Glucopyranoside · p-Menthane-7,8-diol; (1RS,4RS)-form, 8-O-β-D-Glucopyranoside · Psoralen · Quercetin · Quercetin-3-O-β-D-glucuronide · (S)-(+)-Carvone · Scoparone · Stigmasterol · Terpinen-4-ol · trans-Anethole · 1,2,10-Trihydroxydihydro-trans-linalyloxide;7-O-β-D-glucopyranoside · Umbelliferone · Vanillin · Vitamin C · Xanthotoxin 	<ul style="list-style-type: none"> · Linalool(진경약) · p-Cymene (독성) · Quercetin (항산화,항암활성,anti-HIV활성) · Scoparone (식물조직분비항독성물질) · Umbelliferone (혈소판응집활성,항진균성) · Vanillin(항산화성) · Terpinen-4-ol (진해,거담,진통,진정제) · Myristicin (이뇨제,환각유발) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Octan-1-al (피부,눈자극독성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Psoralen(Photocarcinogen) <div style="text-align: center;">  </div>

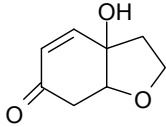
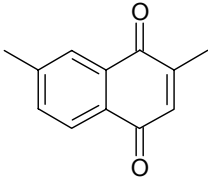
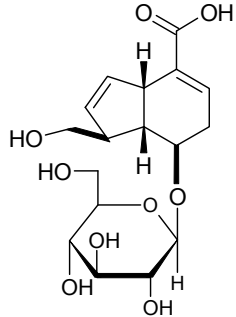
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
			<ul style="list-style-type: none"> · (S)-(+)-Carvone (CNS자극제, 구풍제)  <ul style="list-style-type: none"> · trans-Anethole (구풍, 거담, 살충성) 
<p>바디나물^{89, 90, 151)} <i>Angelica decursiva</i> (Miq.) Franch. et Savat (산형과)</p>	<p>뿌리, 진통 해열 두통 진경제</p>	<ul style="list-style-type: none"> · 4'-Acetoxy-3'-angeloyloxy-3', 4'-dihydroxanthyletin · 3'-Acetoxy-4'-isovaleryloxy-xanthoxyletin · Andelin · Decuroside I, II, III, V · 4'-Hydroxy-3'-seneciolyoxy-3', 4'-dihydro-xanthyletin · 3'(S)-Acetoxy-3',4'-dihydro-4'(R)-isovaleryloxy-xanthyletin · 3'(S)-Acetoxy-3',4'-dihydro-4'(R)-seneciolyoxy-xanthyletin · 3'(s)-Acetoxy-4'(R)-angeloyloxy-3',4'-dihydro-xanthyletin · 3'(S)-Angeloyloxy-4'(R)-acetoxy-3',4'-dihydro-xanthyletin · 3'(S)-Angeloyloxy-4'(R)-isovaleryloxy-3',4'-dihydro-xanthyletin 	<ul style="list-style-type: none"> · Umbelliferone (혈소판응집활성, 항진균성) · β-Sitosterol (혈중지질저하제) · α-Pinene(+,-) (딱정벌레 울음유발) · p-Cymene (독성) · Terpinolene (흰개미페로몬 경보)

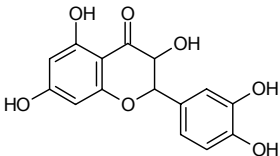
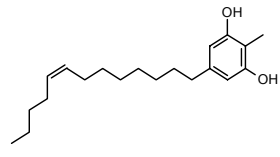
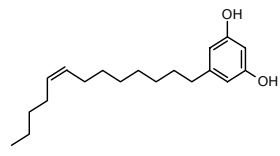
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> · 3'(S)-Hydroxy-4'(R)-seneciyoxy -3',4'-dihydro-xanthyletin · Nodakenin · Decursin · Decursinol · Decursidin · Nodakenetin · Umbelliferone · β-Sitosterol · Iso-imperatorin · Imperatorin · Bergapten · α-Pinnen · Camphene · β-Pinene · Myrcene · α-Phellandrene · Δ⁰-Carene · p-Cymene · γ-Terpinene · Terpinolene · Allo-ocimene · N-Nonane · N-Undecane · C₁₅-Undecylaldehyde · C₉-Nonylaldehyde · Cyclodecanone · Isobornylacetate · 4-Vinylguaniacol · N-Tridecane · γ-Elemene · Thujjopsene · β-Selinene · Aromadendrene · Torreyol 	<ul style="list-style-type: none"> · Imperatorin (진경, 소염제)  <ul style="list-style-type: none"> · Isoimperatorin (진경성, 항종양성)  <ul style="list-style-type: none"> · Bergapten (소염, 항히스타민제)  <ul style="list-style-type: none"> · Myrcene(피부, 눈자극) 

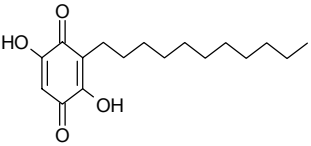
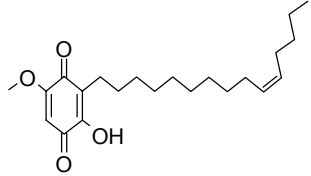
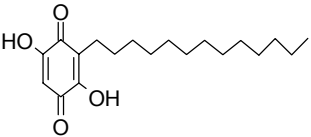
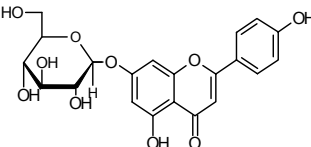
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
구릿대 91, 92, 151) <i>Angelica dahurica</i> Benth.et Hook. F. (산형과)	뿌리, 진통 진정 지혈 치통 두통 대하 항균활성 세포분열저 해	<ul style="list-style-type: none"> • Adenosine • Anhydrobyakangelicin • Aviprin • β-Sitosterol • Byakangelicin • Byakangelicol • 3-Carene • Cedrelopsin • Demethylsuberosin • γ-Amylbutyrolactone; (R)-form • γ-Decalactone • Heraclenol • 3-Hydroxymarmesinin • 5-(2-Hydroxy-3-methoxy-3-methylbutoxy)psoralen • Imperatorin • Isoelemicin • Isoimperatorin • Knidilin • Marmesin • Neobyakangelicol • Nodakenin • Oscine • Osthol • Oxypeucedanin methanolate • Oxypeucedanin(R-form) • p-Cymene • p-Vinylguaiacol • Sec-O-acetylbyakangelicin • sec-O-β-D-Glucopyranosylbyakangelicin • tert-O-β-D-Glucopyranosylbyakangelicin • tert-O-Methylbyakangelicin • Xanthotoxin 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Imperatorin (진경,소염,항균활성) • Isoimperatorin (진경성,항종양,항균활성) • p-Cymene (독성) • Xanthotoxin (소염,진경성) • Scopoletin (진경제) • Ferulic acid (항산화,항종양성) • Byakangelicin (태반성선자극호르몬저해) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • 3-Carene(피부자극) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Isoelemicin(최면성) <div style="text-align: center;">  </div>

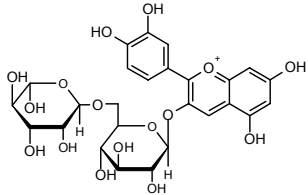
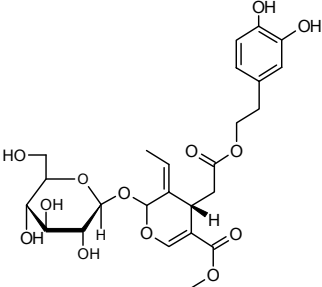
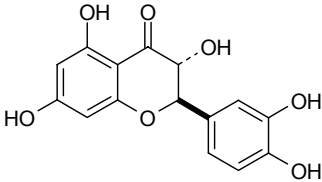
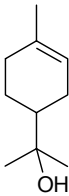
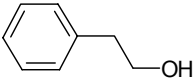
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • Alloimperatorin • Alloisoimperatorin • Isooxypeucedanin • Xanthotoxol • Phellopterin • Pangelin • Scopoletin • Scopolin • Angelol H • Angelol E • 6-[(1S),2(S)-1,2,3-Trihydroxy-3-methylbutyl]-7-methoxycoumarin • 6-[(1S),2(R)-2,3-Dihydroxy-1-methoxy-3-methylbutyl]-7-methoxycoumarin • Ferulic acid • Skimmin • 8-O-β-D-Glucopyranosylxantho-toxol • Umbelliferone • 5,8-di-(2,3-dihydroxy-3-methylb-othoxy) Psoralen • 3''-α-D-Glucopyranosyl(1→2)-β-D-fructofuranosyl-oxypenceda nin hydrate • 3''-α-D-Glucopyranosyl(1→4)-β-D-glucopyranosyl-oxypenced-anin hydrate 	<ul style="list-style-type: none"> • Osthol <p>(혈소판 thromboxane 형성저해)</p> 
<p>식나무¹⁾ <i>Aucuba japonica</i> Thunb (층층나무과)</p>	<p>줄기, 잎 화상 창상 이뇨제</p>	<ul style="list-style-type: none"> • Aucubin • Aucubigenin • Bis-(2-ethyl-hexyl)phthalate • Phytone 	

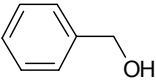
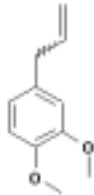
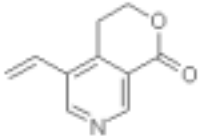
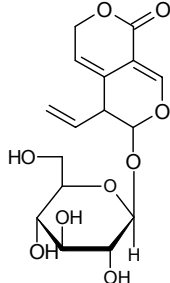
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
			<ul style="list-style-type: none"> · Aucubin(항균활성)  <ul style="list-style-type: none"> · Bis-(2-ethyl-hexyl)phtalate (기형유발, 암유발) 
<p>층층나무^{93, 94)} <i>Cornus controversa</i> Hemsley (층층나무과)</p>	<p>과실, 가지 자양 강장 수렴</p>	<ul style="list-style-type: none"> · Gallic acid · 1-O-galloyl-β-D-glucose · 1,6-Di-O-galloyl-β-D-glucose · 1,2,3-Tri-O-galloyl-β-D-glucose · 1,2,6-Tri-O-galloyl-β-D-glucose · 3,4,6-Tri-O-galloyl-β-D-glucose · Eugeniiin · Gemin D · Quercetin · Quercitrin · Hyperoside · Rutin · Isoquercitrin · O-coumaric acid' 	<ul style="list-style-type: none"> · Gallic acid (항종양제, 수렴제) · Eugeniiin(항바이러스성) · Quercetin (항산화, 항암활성, anti-HIV활성) · Quercitrin (항바이러스, 진경제) · Hyperoside (혈관확장제, 고혈압치료제) · Isoquercitrin (이뇨작용) · Scopoletin(진경제)

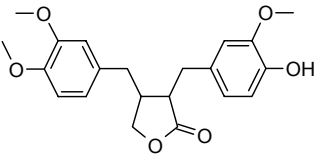
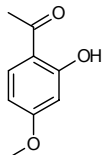
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Halleridone • Scopoletin • Arjunglucoside II 	<ul style="list-style-type: none"> • Halleridone(세포과괴제) 
<p>노루발^{95, 151)} <i>Pyrola japonica</i> Klenze ex Alefeld (노루발과)</p>	<p>전초 지혈 조경</p>	<ul style="list-style-type: none"> • Chimaphilin • Homoarbutin • Isohomoarbutin • Monotropein • Oleanolic acid • Pyrolatin • Quercetin • Ursolic acid 	<ul style="list-style-type: none"> • Oleanolic acid (항궤양성) • Quercetin(항산화, 항암활성, anti-HIV활성) • Ursolic acid (이노작용, 항종양성) • Chimaphilin (세포독성, 항균성)  <ul style="list-style-type: none"> • Monotropein(하제) 

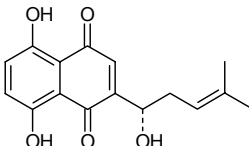
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
진달래 ^{1, 96, 97)} <i>Rhododendron mucronulatum</i> Turcz.var. <i>mucronulatum</i> (진달래과)	꽃, 잎 이뇨제 류마티스 통풍	<ul style="list-style-type: none"> • Myrcetin • Quercetin • Kaempferol • Ampeloptin • Taxifolin • Malvidin • α-Pinene • β-Caryophyllene • Linalool • Afzelin • Ampelopsin • Catechin • Quercitrin 	<ul style="list-style-type: none"> • Myricetin (항 HIV활성) • Kaempferol (항염작용, 이뇨작용) • Quercetin (항산화, 항암활성, anti-HIV활성) • α-Pinene(+,-) (딱정벌레울음유발) • Linalool(진경약) • catechin(항케양성) • Quercitrin (항바이러스,진경제) • taxifolin (소염제,항종양성) 
자금우 ¹⁵¹⁾ <i>Ardisia japonica</i> (Thunberg) Blume (자금우과)	뿌리, 해독 이뇨 진해 거담제	<ul style="list-style-type: none"> • Ardisianone A, B • Ardisinol I , II • Bergenin • 3-β-O-[α-L-rhamnopyranosyl(1->4)-β-D-glucopyranosyl(1->2)-[β-D-glucopyranosyl(1->4)]-α-L-arabinopyranoside]-16-α-hydroxy-13,28-epoxy-olean-29-oic acid • CyclamiretinA; 3-β-O-α-L-rhamnopyranosyl(1->4)-β-D-glucopyranosyl(1->2)-[β-D-glucopyranosyl(1->4)]-α-L-arabinopyranoside 	<ul style="list-style-type: none"> • Bergenin(진해제) • Ardisinol I(항결핵활성) • Ardisinol II(항결핵활성)  

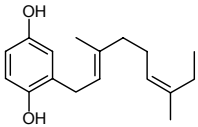
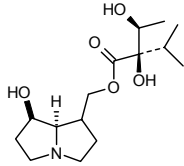
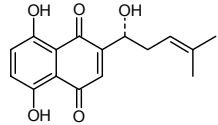
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> · Cyclamiretin A; 3-β-O-α-L-rhamnopyranosyl(1->4)-β-D-glucopyranosyl(1->2)-[β-D-xylopyranosyl(1->4)-β-D-glucopyranosyl(1->4)]-α-L-arabinopyranoside · Embelin · 2-Hydroxy-5-methoxy-3-pentadecenyl-1,4-benzoquinone · Maesanin · 5-Methoxy-3-(cis-10-pentadecenyl)-1,4-benzoquinone · 2-Methylcardol · Norbergenin · Rapanone · Tri-O-methylnorbergenin 	<ul style="list-style-type: none"> · Embelin (구충제,경구피임제)  <ul style="list-style-type: none"> · Maesanin(항균,항천식성)  <ul style="list-style-type: none"> · Rapanone (구충제) 
<p>때죽나무¹⁾ <i>Styrax japonica</i> Sieb. et Zucc. (때죽나무과)</p>	<p>과피, 거담제</p>	<ul style="list-style-type: none"> · Egosaponin 	
<p>제주광나무¹⁵¹⁾ <i>Ligustrum lucidum</i> Aiton (물푸레나무과)</p>	<p>열매, 자양 강장제</p>	<ul style="list-style-type: none"> · Acetylursolic acid · Apigetrin · Cyanidin-3-O-β-D-rutinoside · Cyanin · 3,4-Dihydroxyphenethyl alcohol · 3,4-Dihydroxyphenethyl-β-D-glucopyranoside · 10-Hydroxyligustroside · 10-Hydroxyoleuropein · Isorhoifolin · Ligustrin · Ligustroside 	<ul style="list-style-type: none"> · Oleanolic acid (항궤양성) · Quercetin(항산화,항암활성,anti-HIV활성) · Taxifolin(소염제,항종양성) · Ursolic acid (이뇨작용, 항종양성) · Apigetrin(Anti-HIV agent) 

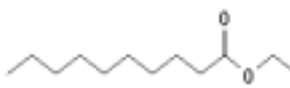
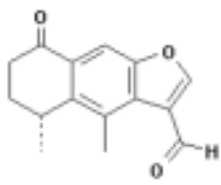
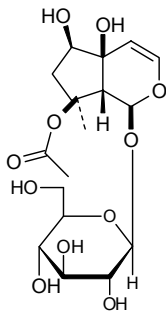
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Luteolin-7-O-β-D-rutinoside • Malvidin-3-O-β-D-rutinosyl-5-O-β-D-glucopyranoside • Nuezhengalaside • Nuezhenide • Oleanolic acid • Oleuropeic acid • Oleuropein • Phenethyl-p-hydroxy-β-D-glucoside • p-Hydroxyphenethyl alcohol • Quercetin • Specnuezhenide • Taxifolin • (+)-Taxifolin (2R,3R-form) • Ursolic acid • α-Mannitol 	<ul style="list-style-type: none"> • Cyanidin-3-O-β-D-rutinoside (야맹증치료효과)  <ul style="list-style-type: none"> • Oleuropein(고혈압치료제)  <ul style="list-style-type: none"> • (+)-Taxifolin(2R,3R-form) (소염제, 항종양성) 
쥐똥나무 ⁹⁸⁾ <i>Ligustrum obtusifolium</i> Sieb. et Zucc (물푸레나무과)	열매, 꽃 종자 강장 지혈 폐결핵의 조열,부종	<열매> <ul style="list-style-type: none"> • 1-α-Terpineol • Phenol 2,6-bis(1,1-methyl)-4-methyl • α-Copaene • β-Cubebene • 3-Isopropyl-2,2,3,4-tetramethylpentane <꽃> <ul style="list-style-type: none"> • Benzeneethanol • Benzenemethanol 	<ul style="list-style-type: none"> • 1-α-Terpineol(향료성분)   <ul style="list-style-type: none"> • Benzeneethanol(향균성)

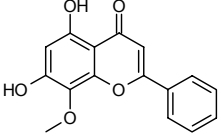
일반명,학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> · Methyleneugenol · 1,4-Hexadiene 3,3,5-trimethyl · 2,6-Octadiene-1-ol 3,7-dimethyl · 9-Octadecynoic acid methyl ester · Eicosane 7-hexyl · 1-Tricosanol · Eicosane · Cyclohexane 1-(1,5-dimethylhexyl)-4-(4methylpentyl) <p><종자></p> <ul style="list-style-type: none"> · Oleanolic acid · Ursolic acid · Cerotic acid · Stearic acid · Palmitic acid · β-Sitosterol 	<ul style="list-style-type: none"> · Benzenemethanol(향균제)  <ul style="list-style-type: none"> · Methyleneugenol(향진균성) 
<p>용담¹⁵¹⁾ <i>Gentiana scabra</i> Bunge var (용담과)</p>	<p>뿌리, 요도염 소염제 간질환 간보호 고미견위약</p>	<ul style="list-style-type: none"> · Amaroswerin · Gentianine · Gentioflavine · Gentiopicroside · Gentiopicroside tetraacetate · Loganic acid · Rindoside · Scabroside · Sweroside · Swertiamarin · Trifloroside 	<ul style="list-style-type: none"> · Gentianine (CNS자극제, 항고혈압, 소염, 근육이완제)  <ul style="list-style-type: none"> · Gentiopicroside(향말라리아, 살충성) 

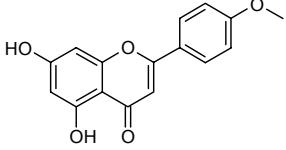
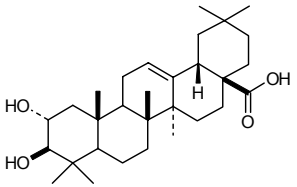
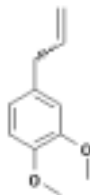
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
마삭줄 ¹⁾ <i>Trachelosper- mum asiaticum</i> (Sieb.& Zucc.) Nakai (협죽도과)	줄기, 하열 지혈 진통약	<ul style="list-style-type: none"> • Arctigenin • Arctiin • Matairesinol • Matairesinoside 	<ul style="list-style-type: none"> • Arctigenin (항HIV, 항백혈병활성) 
박주가리 ¹⁵¹⁾ <i>Metaplexis japonica</i> (Thunberg) Makino (박주가리과)	과실, 강장 강정 종양제거 지혈약	<ul style="list-style-type: none"> • 8-α-Acetoxystaurin • 7-α-Hydroxy-12-O-benzo- yldeacetylmataplexigenin • Benzoylramanone • 7β-Methoxysarcostin • 12,20-Dibenzoyl-gagaimol • Digipurpurogenin II • Gagaimol • Gagaminin • 7-Methyl ether gagaimol • N-Dotriacontane • 3,8,12,14,17-Pentahydroxypregn- -5-en-20-one; 3-O-[α-L- Cymaropyranosyl-(1->4)-β- -D-cymaropyranosyl-(1->4)- -α-L-cymaropyranosyl-(1-> >4)-β-D-cymaropyranosyl- (1->4)-β- D-cymaropyranoside] • Pergularin • Sarcostin • Utendin 	
산해박 ¹⁵¹⁾ <i>Cynanchum paniculatum</i> Kitagawa (박주가리과)	뿌리, 진통 소종 해열	<ul style="list-style-type: none"> • Neocynaponoside A • Paeonol • Sarcostin 	<ul style="list-style-type: none"> • Paeonol (소염제) 

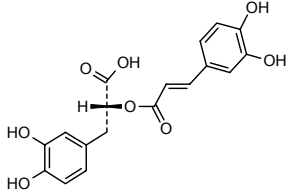
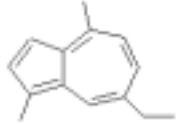
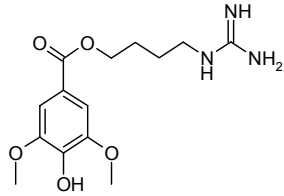
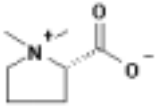
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
메꽃 ¹⁵¹⁾ <i>Calystegia japonica</i> Choisy (메꽃과)	전초, 이노 강장 강정제	<ul style="list-style-type: none"> • Afzelin • Astragalin • β-Amyrin • β-Sitosterol • Calystegine A3 ,B1, B2 • 3-Hydroxy-4',5,7-trimethoxyflavone • Kaempferol-3-O-β-D-[glucopyranosyl(1->2)glucopyranosyl]-7-O-β-D-glucopyranoside • Kaempferol-3-O-β-D-rutinoside • Trifolin 	<ul style="list-style-type: none"> • Astragalin (면역자극) • β-Amyrin(항생제) • β-Sitosterol (혈중지질저하제)
새삼 ¹⁵¹⁾ <i>Cuscuta japonica</i> Choisy (메꽃과)	종자, 강정 강장 음위	<ul style="list-style-type: none"> • Agroclavine • Bergenin • Taraxanthin 	<ul style="list-style-type: none"> • Bergenin(진해제)
지치 ¹⁵¹⁾ <i>Lithospermum erythrorhizon</i> Sieb.et Zucc. (지치과)	뿌리, 화상 동상 종양 습진 수포	<ul style="list-style-type: none"> • Acetylshikonin • Alkannin • α-Methyl-n-butyrylshikonin • β,β-Dimethylacrylshikonin • β-Hydroxyisovalerylshikonin • Caffeic acid docosanoate • Caffeic acid eicosanoate • Caffeic acid stearate • Caffeic acid tetracosanoate • Deoxyshikonin • Deoxyshikonofuran • Dihydroechinofuran 	<ul style="list-style-type: none"> • Lithosperman A, B (저혈당활성) • Alkannin (독성) 

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Dihydroshikonofuran • Echinofuran • Echinofuran B , C • Geranylhydroquinone • Hydroxymyoscorpine • Intermedine • Isobutylshikonin • Isovalerylshikonin • Lithosperman A , B, C • Lithospermidin A , B • Lithospermum erythrorhizon pigment I • Lithospermum erythrorhizon benzoquinoid pigment I • m-Geranyl-p-hydroxybenzoic acid • Myoscorpine • Shikonin • Shikonofuran A ,B, C, D, E 	<ul style="list-style-type: none"> • Geranylhydroquinone (방사선보호제)  <ul style="list-style-type: none"> • Intermedine (피부 멜라닌입자 분산야기)  <ul style="list-style-type: none"> • Shikonin(항균제) 
<p>누리장나무¹⁾ 99, 100)</p> <p><i>Clerodendron trichotomum</i> Thunberg (마편초과)</p>	<p>잎,가지</p> <p>동통</p> <p>고혈압</p> <p>편두통</p> <p>말라리아</p> <p>하리</p> <p>치질</p>	<ul style="list-style-type: none"> • Acacetin • Clerodendron A • Trichotomine • Luteolin-7-O-glucuronide • Apigenin-7-O-glucuronide • Campesterol • Stigmasterol • β-Sitosterol • Acteoside(verbascoside) • Isoacteoside • Decaffeoylacteoside • Luteolin-7-O-β-D-glucuronopyranoside • Apigenin-7-O-β-D-glucuronopyranoside 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Verbascoside (protein Kinase C 저해, 항산화활성)

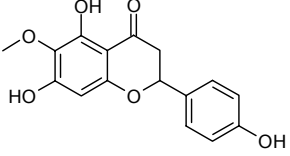
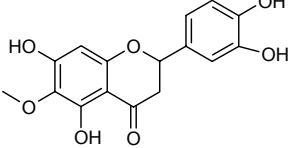

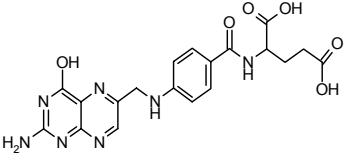
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
순비기나무 ¹⁵¹⁾ <i>Vitex</i> <i>rotundifolia</i> L. (마편초과)	과실, 두통 감기 관절염	<ul style="list-style-type: none"> • Agnuside • Artemetin • Casticin • Decanoic acid ethyl ester • Eurostoside • Luteolin • 4'-O-β-D-Glucopyranosyl-4-(3',4'-dihydroxyphenyl)butan-2-one • 10-O-Vanilloylaucubin • 1-Oxoeucommiol • p-Hydroxybenzoic acid • Prerotundifuran • Previtexilactone • Rotundifuran • Vanillic acid • Viteoid II • Viteolide I • Viteoside A • (-)-Vitalone (R-form) • Vitexilactone 	<ul style="list-style-type: none"> • p-Hydroxybenzoic acid (성장저해, 트립신저해작용) • Luteolin(소염제) • Vanillic acid (성장저해, 트립신저해작용) • Decanoic acid ethyl ester (피부자극독성)  <ul style="list-style-type: none"> • (-)-Vitalone(R-form) (항관절염 활성) 
조개나물 ^{101, 102, 152)} <i>Ajuga</i> <i>multiflora</i> Bunge (꿀풀과)	전초, 두통 고혈압 청열 이뇨 소종 항암활성	<ul style="list-style-type: none"> • Ecdysteroid • Apigenin • Di-2-ethylhexylphthalate • Ursolic acid • β-Sitosterol-3-glucoside • Makisteron A • 8-O-Acetylharpagide • Harpagide • Apigenin 7-O-glucuronide 	<ul style="list-style-type: none"> • Apigenin(독성) • Ursolic acid (이뇨작용, 항종양성) • 8-O-acetylharpagide (ecdysteroid 작용물질) 

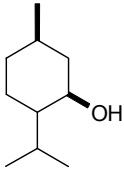
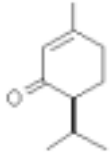
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
골무꽃 ^{103, 151)} <i>Scutellaria indica</i> L. (꿀풀과)	전초, 간암 유암 맹장염 객혈 토혈증	<ul style="list-style-type: none"> • Alpinetin • Apigenin • Apigenin-7-O-β-D-glucopyranoside • Chrysin-7-O-β-D-glucuronopyranoside • 5,7-Dihydroxy-2',8-dimethoxyflavone • 5,7-Dihydroxy-2',8-dimethoxyflavone-7-O-β-D-glucuronopyranoside • 2',3',4',5,5',6,7-Heptamethoxyflavanone • 2,2',3,4,5,6'-Hexamethoxy-4',5'-methylenedioxychalcone • 2'-Hydroxy-2,3,4,4',5,5',6'-heptamethoxychalcone • 2'-Hydroxy-2,3,4,5,6'-pentamethoxy-4',5'-methylenedioxychalcone • 4'-Hydroxywogonin • Isoscutellarein • Isoscutellarein-8-O-glucuronopyranoside • Luteolin • 2,2',3,4,4',5,5',6'-Octamethoxychalcone • Rivularin • (RS)-2',5-Dihydroxy-6,6',7-trimethoxyflavanone • Scutellarein • Scutellarin • 2(S)-2',5-Dihydroxy-6',7,8-trihydroxyflavanone-2'-O-β-D-glucopyranoside • 2(S)-2',5-Dihydroxy-6',7,8-trimethoxyflavanone • 2(S)-2',5,5'-Trihydroxy-7,8-dimethoxyflavanone • 2(S)-2',5,7-Trihydroxyflavanone • 2(S)-2',5,7-Trihydroxy-8-methoxyflavanone • 2',5,6'-Trihydroxy-7,8-dimethoxyflavone • Wogonin 	<ul style="list-style-type: none"> • Apigenin(독성) • Luteolin(소염제) • Wogonin (항균성, 이뇨제) <div style="text-align: center;">  </div>

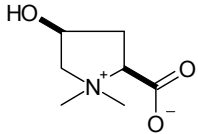
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
배초향 ^{104, 105, 151)} <i>Agastache rugosa</i> (Fisch.et Meyer) O.Kuntze (꿀풀과)	지상부, 열사병 구토 지사 발한 해열	<ul style="list-style-type: none"> · 19(4-3)Abeo-12,14,15-trihydroxy-11-methoxyabiet-4(18),8,11,13-Tetraen-7-one · Acacetin · Acetyl oleanolic aldehyde · Agastachin · Agastachoside · Agastanol · Agastaquinone · 5-Allyl-2,3-dimethoxyphenol · α-Pinene(+,-) · Anethole · Anisaldehyde · Apigetrin · β-Farnesene · (+)-β-Pinene · β-Sitosterol · (-)-Calamenene · Daucosterol · Dehydroagastanol · δ-Cadinene · Diosmetin-7-O-β-D-glucopyranoside · 1,3,11-Elematriene · Erythrodiol-3-acetate · Estragole · (+)-ν-Cadinene · Isoagastachoside · Linalool · Maslinic acid · Methyleugenol · Oleanolic acid · p-Cymene · p-Methoxycinnamaldehyde · Rosmarinic acid · Tilianin 	<ul style="list-style-type: none"> · α-Pinene(+,-) (딱정벌레 울음유발) · Anethole(구풍제,살충성) · Anisaldehyde(살충성) · Apigetrin(Anti-HIV agent) · Daucosterol (항종양성,진립선비대치료제) · (+)-β-Pinene (피부자극독성) · Linalool(진경약) · p-Cymene (독성) · Oleanolic acid (항궤양성) · Acacetin (소염제, 모세혈관보호, 진경제) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Maslinic acid (항염증, 회장접촉으로인한 히스타민 저해) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Methyleugenol(항진균성) <div style="text-align: center;">  </div>

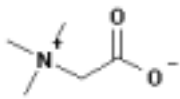
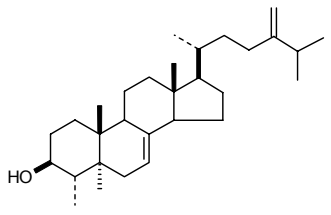
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<지하부> • Erythrodiol-3-acetate • 3-O-Acetyl oleanolic acid • 3-O-Acetyl oleanolic aldehyde	• Rosmarinic acid (anti-HIV 활성) 
익모초 ^{106, 151)} <i>Leonurus sibiricus</i> L. (꿀풀과)	전초, 과실 산후출혈 월경불순 항고혈압	• Chamazulene • Cycloleonurinin • 12,13-Epoxyoleic acid • Eugenol • Isokobusone • Isoleosibirin • Leonurine • (+)-Leosibiricin • Leosibirin • Linoleic acid • L-Stachydrine • p-Menthan-3-ol; (1R,3R,4R)-form • Violaxanthin (all-E form) • Zeaxanthin (all E-form)	• Eugenol(항진균, 방부제) • Linoleic acid (위장보호) • Chamazulene(독성)  • Leonurine(자궁수축자극)  • L-Stachydrine (심장수축억제) 
꿀풀 ¹⁵¹⁾ <i>Prunella vulgaris</i> var. <i>lilacina</i> Nakai (꿀풀과)	꽃봉오리 소염 이뇨제	• 2- α ,3- α -Dihydroxy-ursa-12,20(30)-dien-28-oic acid • 2- α ,3- α -Dihydroxy-urs-12-en-28-oic acid • 2- α ,3- α ,24-Trihydroxy-oleana-11,13(18)-dien-28-oic acid	• Betulinic acid (항종양활성, 세포소멸유발) • Maslinic acid (항염증, 회장점막으로 인한 히스타민 저해)

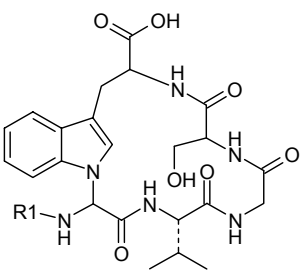
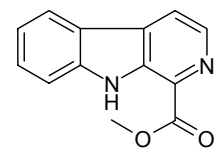
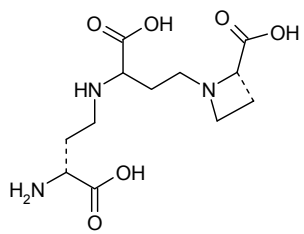
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • 2-α,3-α,24-Trihydroxyoleana-12-en-28-oic acid • 2-α,3-α,24-Trihydroxy-olean-12-en-28-oic acid • 2-α,3-α,24-Trihydroxy-ursa-12,20(30)-dien-28-oic acid • α-Spinasterol • Arjunolic acid • Betulinic acid • Corosolic acid • 3-Epimaslinic acid • Maslinic acid • Methyl 2-α,3-α,24-trihydroxy-12(R),13(S)-cyclotaraxer-14-en-28-oate • Methyl 2-α,3-α,24-trihydroxy-13(S),14(R)-cycloolean-11-en-28-oate • 3-O-β-D-Glucopyranosyl-α-spinasterol • Oleanolic acid • Rosmarinic acid • (13S,14R)-2-α,3-α,24-Trihydroxy-13,14-cyclo-olean-11-en-28-oic acid • Tetrapanax papyriferum saponin R-3 • Ursolic acid 	<ul style="list-style-type: none"> • Oleanolic acid (항궤양성) • Rosmarinic acid (anti-HIV 활성) • Ursolic acid (이뇨작용, 항궤양성)
배암차즈기 ¹⁰⁷⁾ <i>Salvia plebeia</i> R. Brown (꿀풀과)	전초, 청열 해독 노혈 항암활성 항균효과	<전초> <ul style="list-style-type: none"> • Homoplantagin • Hispidulin • Eupafolin • Eupafolin-7-glucoside • Hispidulin-7-glucoside • Nepetin-7-glucoside 	<ul style="list-style-type: none"> • Protocatechuic acid (영양화학적저해제) • Caffeic acid (항궤양, 항HIV, 항산화활성)

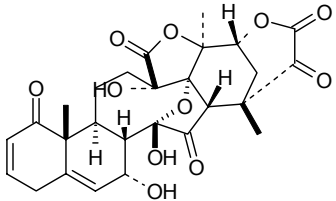
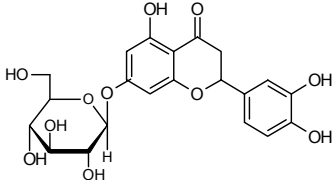
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Homoplantagenin • Nepetrin • Nepetin <종자> • 4-Hydroxyphenyl lactic acid • Protocatechuic acid • Caffeic acid 	<ul style="list-style-type: none"> • Hispidulin(항종양성)  <ul style="list-style-type: none"> • Nepetin(항산화성) 
들깨 ^{108, 109, 151)} <i>Perilla</i> <i>frutescens</i> var. <i>japonica</i> Britt. (꿀풀과)	잎, 종자 고혈압예방 변비약 고지혈증 개선효과	<ul style="list-style-type: none"> • Perillaldehyde • Caffeoyl quinic acid • Chlorogenic acid • Caffeic acid • Folic acid <아미노산> • Asparatic acid • Asparagine • Alanine • Phenylalanine • Tryptophane • Leucine • Glutamic acid • Proline • Threonine • Histidine • Cystine • Glycine 	<ul style="list-style-type: none"> • Chlorogenic acid (serum triglyceride저해) • Caffeic acid (항종양, 항HIV, 항산화활성) • Perillaldehyde (피부자극독성)  <ul style="list-style-type: none"> • Folic acid(Vitamin M) 
박하 ^{110, 151)} <i>Mentha</i> <i>arvensis</i> var. <i>piperascens</i> Malinv. (꿀풀과)	전초, 발열 두통 인통 항알레르 기활성	<ul style="list-style-type: none"> • α-Pinene(+,-) • Anisaldehyde • β-Car-3-ene • (+)-β-Pinene • 3-Carene 	<ul style="list-style-type: none"> • 1,8-Cineole(방부제) • α-Pinene(+,-) (딱정벌레울음유발)


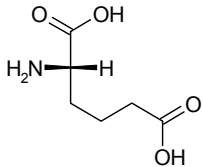
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
	충혈	<ul style="list-style-type: none"> • Chlorophyll A • Chlorophyll B • 1,8-Cineole • Daucosterol • Ethylene • Eugenol • Isomenthol • Linalool • (-)-Menthol • Menthol-β-D-glucopyranoside • Menthol-6'-O-acetyl-β-D-glucopyranoside • (-)-Menthol-O-β-D-glucoside • Menthone • (+)-Neomenthol • Piperitone oxide • Piperitone; (S)-form • p - M e n t h a n - 3 - o l ; (1R,3R,4R)-form • Pulegone • Pulegone (S-form) • Rosmarinic acid 	<ul style="list-style-type: none"> • Anisaldehyde(살충성) • 3-Carene(피부자극) • Daucosterol (항종양성, 전립선비대치료제) • Eugenol(항진균, 방부제) • Linalool(진경약) • Rosmarinic acid (anti-HIV 활성) • (-)-Menthol (마취성, 진통성, 항소양성)  • Piperitone; (S)-form (향천식제) 
<p>향유^{111, 151)} <i>Elsholtzia ciliata</i> (Thunb.) Hylander (꿀풀과)</p>	<p>전초, 발한 해열 이뇨약</p>	<ul style="list-style-type: none"> • Apigenin • Apigenin-4'-rutinopyranoside • Apigetrin • Baicalein-7-methyl ether • β-Sitosterol • Citronellol; (R)-form • Corosolic acid • Daucosterol • 3,7-Dimethyl-2,6-octadien-1-ol; (E)-form, acetate • Elsholtzia ketone 	<ul style="list-style-type: none"> • Apigenin(독성) • β-Sitosterol (혈중지질저하제) • Citronellal; (R)-form (벌레퇴치방향제) • Daucosterol (항종양성, 전립선비대치료제) • Geraniol(피부자극) • Luteolin(소염제) • Ursolic acid (이뇨작용, 항종양성)

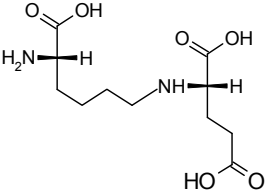
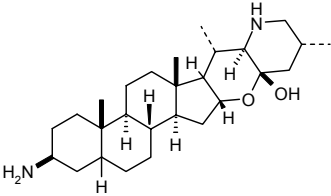
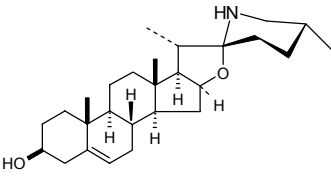
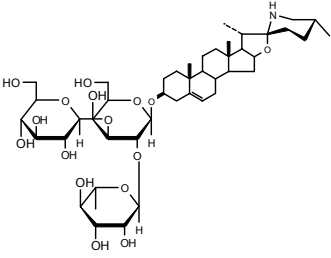
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Geraniol • Luteolin • Naginata ketone • Tormentic acid • Ursolic acid • Isobutyl isovalerate • α, β-Naginatene • 3-Octanol • 1-Octane-3-ol • n-Caproic acid • β-Caryophyllene • Geranyl acetate 	
꽃향유 ¹⁵¹⁾ <i>Elsholtzia splendens</i> Nakai et Maekawa (꿀풀과)	전초, 두통 수종 구취 구토	<ul style="list-style-type: none"> • α-Pinene(+,-) • α-Terpineol • β-Bisabolene • (+)-β-Pinene • Carvacrol • ν-Terpinene • p-Cymene • Terpinen-4-ol • Thymol • trans-α-Bergamotene 	<ul style="list-style-type: none"> • α-Pinene(+,-) (딱정벌레을음유발) • α-Terpineol(향수성분) • (+)-β-Pinene (피부자극독성) • Carvacrol(피부자극독성) • ν-Terpinene(독성) • p-Cymene(독성) • Thymol(방부제)
속단 ^{112, 113, 151)} <i>Phlomis umbrosa</i> Turcz. (꿀풀과)	근경, 강정 진통 소염약	<ul style="list-style-type: none"> • Betonicine • Shanzhiside methyl ester • Succinic acid • Umbroside (8-O-acetylshanzhiside methylester) • Dipsacus saponin A, B, C • Shanzhiside methylester • Sesamoside 	<ul style="list-style-type: none"> • Succinic acid(눈자극) • Betonicine(항염활성) <div style="text-align: center;">  </div>

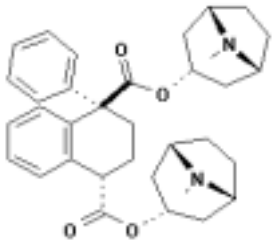
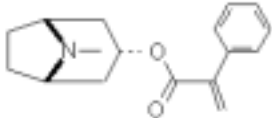
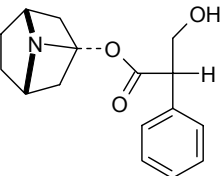
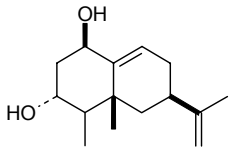
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
구기자나무 ^{114, 151)} <i>Lycium chinense</i> Mill. (가지과)	열매, 혈당강하	<ul style="list-style-type: none"> • 4-α,14-α,24-Trimethylcholesta-8,24-dien-3-ol • 4-α,24-Dimethylcholesta-7,24-dien-3-ol • 4-α-Methylcholest-8-en-3-ol • 24-α-Methylphenol • Aurantiamide acetate • β-Amyrin • Betaine • β-Sitosterol • Campesterol • Cholest-7-en-ol • Cholesterol • Choline • Cycloartanol • Cycloartenol • Cycloeucalenone • Dehydro-α-cyperone • 17-Deoxywithanone • Diosgenin • Eburicol • 24-Ethylidenelophenol • 24-Ethylphenol • Gramisterol • 3-Hydroxy-7,8-dehydro-β-ionone • 20-Hydroxy-17-deoxywithanone • Isofucosterol • Kukoamine A, B • Lanost-8-en-3-β-ol • Lanosterol • Lophenol • Lupeol • Lyciumamide 	<ul style="list-style-type: none"> • β-Amyrin(항생제) • β-Sitosterol (혈중지질저하제) • Lupeol(항종양제) • Scopoletin(진경제) • Vanillic acid(성장저해, 트립신저해작용) • Cycloartanol(항염증제) • Diosgenin (항염증성,발정촉진성) • Betaine (세포내 삼투압조절작용) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Gramisterol (Antialgal sterol) <div style="text-align: center;">  </div>

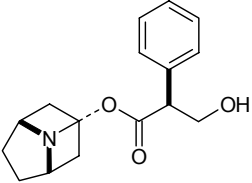
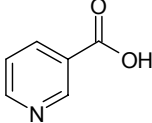
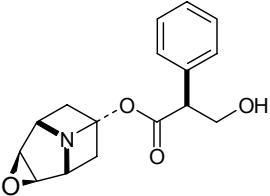
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Lyciumin A, B, C, D • Lyciumoside I, II, IV, IX, V, VI, VII • 1-Methoxycarbonyl-β-carboline • 24-Methylene-cycloartanol • 24-Methyl-31-norlanost-9(11)-en-3-ol • N-9-Formylharman • Nicotianamine • 31-Nor-9-β-19-cyclo-ano-24-en-3-β-ol • 29-Norcycloartanol • 31-Norlanost-8-en-3-ol • 31-Norlanost-9(11)-enol • 31-Norlanosterol • Obtusifolin • Obtusifoliol • Perlolryrine • Scopoletin • Solavetivone • Stigmastane-3,6-dione (5α H) • Stigmasterol • Sugiol • Vanillic acid • Withanolide A, B 	<ul style="list-style-type: none"> • Lyciumin A(Anti-ACE & anti-renin activity) • Lyciumin B(Anti-ACE & anti-renin activity)  <ul style="list-style-type: none"> • 1-Methoxycarbonyl-β-carboline(향진균성)  <ul style="list-style-type: none"> • Nicotianamine (철수송 및 클로로필대사 관련) 
<p>파리^{1, 151)} <i>Physalis alkekengi</i> <i>var. franchetii</i> (Masters) Hort. (가지과)</p>	<p>진초, 진해 해열 이뇨</p>	<ul style="list-style-type: none"> • 4-α,14-α,24-Trimethylcholesta-8,24-dien-3-ol • 4-α,24-Dimethylcholesta-7,24-dien-3-ol • 4-α-Methyl-24-ethylcholesta-7,24-dien-3-ol • 24-α-Methyllophenol • Calystegin A5, B3 	<ul style="list-style-type: none"> • Cycloartanol(항염증제) • Luteolin(소염제) • (-)-Tyrosine (S-form) (기형발생효과)

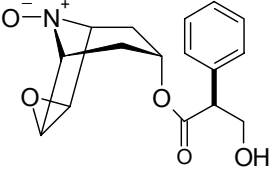
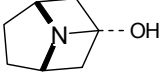
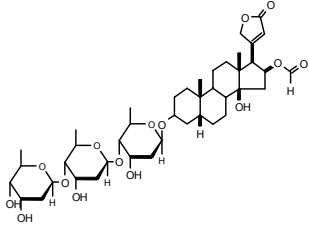
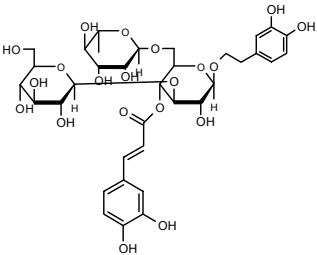
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Cycloartanol • Cycloartenol • Cycloeucalenol • 24-Ethylidenelophenol • 24-Ethyllophenol • Gramisterol • Lanost-8-en-3-β-ol • Lanosterol • Lophenol • Luteolin • 24-Methylene-cycloartanol • 24-Methyl-31-norlanost-9(11)-en-3-ol • 29-Norcycloartanol • 31-Norlanost-9(11)-enol • 31-Norlanost-8-en-3-ol • 31-Norlanosterol • Obtusifoliol • Physalin A, B, C, E, F, L, M • Tigogenin • 3',4',5-Trihydroxyflavone-7-O-β-D-glucoside • (-)-Tyrosine (S-form) 	<ul style="list-style-type: none"> • Physalin A (HeLa세포에 대한 세포독성)  <ul style="list-style-type: none"> • 3',4',5-Trihydroxyflavone-7-O-β-D-glucoside (Exp. antiischaemic effects) 
<p>배 풍 등^{115, 116)} <i>Solanum</i> <i>lyratum</i> Thunb (가지과)</p>	<p>지상부, 해열 진통약 말라리아 황달 수종 임병 류마티스 관절통</p>	<ul style="list-style-type: none"> • 2-Hydroxy-3-methoxybenzoic acid glucose ester • DELTA^{3,5}-deoxytigogenin((25R)-spirosta-3,5-diene • Diosgenin((3p,25R)-spirost-5-en-3-ol) • Hexadecanoic acid methyl ester • 2,6,10,15-Tetramethylheptadecane 	

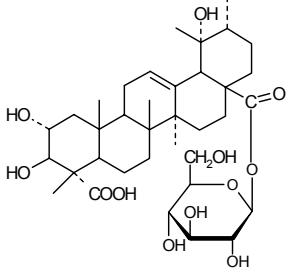
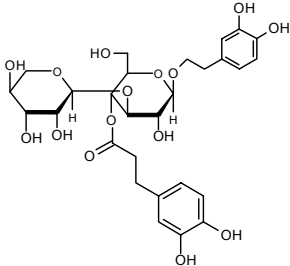
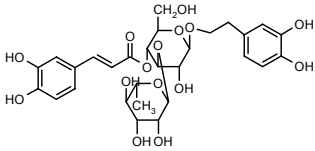
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Tricosane • Tetracosane • Pentacosane • Docosanoic acid methylester • Docosane • Tricosanoic acid methylester • 8-Hexyl pentadecane • Tetracosanoic acid methyl ester • Pentatriacontane • Hexatriacontane • Eicosane • Hexacosane • Hentriacontane • Stigmasta-5,23-dien-3-β-ol • Hexacosanoic acid methyl ester • β-Sitosterol-β-D-glucopyranoside • 3-O-α-L-rhamnopyranosyl-(1→2)-β-D-glucuronopyranosyl diosgenin • 3-O-α-L-rhamnopyranosyl-(1→6)-β-D-glucopyranosyl quercetin 	<ul style="list-style-type: none"> • n-Docosane (kairomone activity)  <ul style="list-style-type: none"> • 3-O-α-L-rhamnopyranosyl-(1→6)-β-D-glucopyranosyl quercetin(항산화활성)
<p>까마중¹⁵¹⁾ <i>Solanum nigrum</i> L. (가지과)</p>	<p>전초, 해열 이뇨제</p>	<ul style="list-style-type: none"> • 2-Amino adipic acid • 12-β-Hydroxysolasodine • Chlorogenic acid • Desgalactotigonin • Isohyperoside • Isoquercitrin • N-Methylsolasodine • 23-O-Acetyl-12-β-hydroxy solasodine 	<ul style="list-style-type: none"> • Isoquercitrin (이뇨작용) • Chlorogenic acid (serum triglyceride저해) • 2-Amino adipic acid (lysine대사 중간물) 

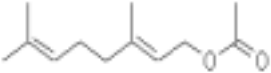
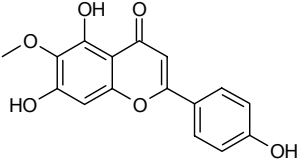
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • 3-O-β-D-Glucopyranosyl-(1->2)-[β-D-xylopyranosyl-(1->3)]-β-D-glucopyranosyl(1->4)-β-D-galactopyranosyl-22-methoxy-25(R and S)-5-α-furost-3-β,26-diol-26-O-β-D-glucopyranoside • PF-P • Quercetin-3-O-α-L-rhamnopyranosyl-(1->2)-β-D-galactopyranoside • Quercetin-3-O-[α-rhamnopyranosyl-(1->2)]-[β-glucopyranosyl-(1->6)]-β-D-galactopyranoside • Quercetin-3-O-β-D-glucopyranoside-(1->6)-β-D-galactopyranoside • Quercetin-3-O-gentiobioside • Saccharopine • Solamargine • Solanocapsine • Solasodine • Solasonine • Tomatidenol • Solanine • α-solanigrine • β-solanigrine • Hyperin • Uttronin • Uttroside 	<ul style="list-style-type: none"> • Hyperin(혈관확장제, 고혈압치료제) • Saccharopine (이스트의 Aminoadipic acid-lysine 경로에서의 lysine 전물질)  <ul style="list-style-type: none"> • Solanocapsine(항균제)  <ul style="list-style-type: none"> • Solasodine(항종양성)  <ul style="list-style-type: none"> • Solasonine(살연체동물체제) 

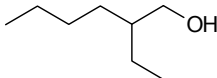
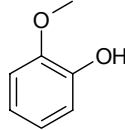
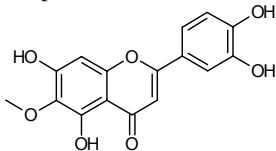
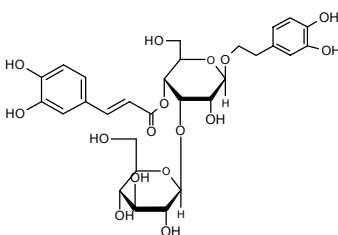
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>독말풀^{1, 151)} <i>Datura stramonium</i> L. (가지과)</p>	<p>잎, 진통 진경 진해 atropine 제조원료</p>	<ul style="list-style-type: none"> • 3-α-Acetoxytropane • α-Belladonnine • 4-α,24-Dimethylcholesta-7,24-dien-3-ol • 4-α-Methylcholest-8-en-3-β-ol • 24-α-Methyllophenol • Apoatropine • Aposcopolamine • Arginase • Atropine • β-Amyrin • Caffeic acid • Campesterol • Capsidiol • Chlorogenic acid • Cholest-7-en-ol • Cholesterol • Cycloartanol • Cycloartenol • Cycloeucalenone • Datugen • Datugenin • Daturalactone 1, 2 , 3 • Daturaturin A • 2,6-Dihydroxytropane • Eburicol • 24-Ethylidenelophenol • Ferulic acid • 1-Feruloyl-β-D-glucose • Fluorodaturatin • Gramisterol • Homofluorodaturatin • Hyoscyamine • Hyoscyamine N-oxide 1 ((-)-form) 	<ul style="list-style-type: none"> • β-Amyrin(항생제) • Caffeic acid (항종양, 항HIV, 항산화활성) • Cycloartanol(항염증제) • Ferulic acid(항산화, 항종양성) • α-Belladonnine (국부마취효과)  <ul style="list-style-type: none"> • Apoatropine(진경제)  <ul style="list-style-type: none"> • Atropine(산동성, 진경성, 안근마비제, 근육이완제)  <ul style="list-style-type: none"> • Capsidiol(항진균제) 

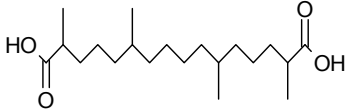
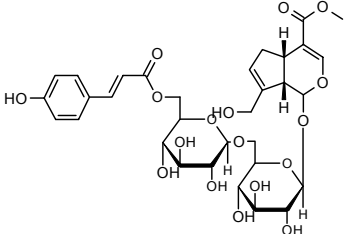
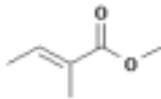
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Hyoscyamine N-oxide 2 ((-)-form) • Isofucosterol • Isoquercitrin; 7-O-β-D-glucopyranoside • Kaempferol-3,7-di-O-β-D-glucopyranoside • Kaempferol-3-O-β-D-[glucopyranosyl(1->2)glucopyranosyl]-7-O-β-D-glucopyranoside • Kaempferol-3-O-β-D-rutinoside • Kaempferol-3-O-rutinoside-7-O-β-D-glucopyranoside • Lanost-8-en-3-β-ol • Lanosterol • Lophenol • Lupeol • Meteloidine • 24-Methylene-cycloartanol • Nicotinic acid • Noratropine • 31-Nor-9-β-19-cycloanost-24-en-3-β-ol • 29-Norcycloartanol • Norhyoscyamine • 31-Norlanost-9(11)-enol • 31-Norlanost-8-en-3-ol • 31-Norlanosterol • Obtusifolin • Obtusifoliol • Oxylubimin • 1-p-Coumaroyl-β-D-glucose • Preskimmianine 	<ul style="list-style-type: none"> • Lupeol(항종양제) • Gramisterol (Antialgal sterol) • Hyoscyamine (항콜린성, 항무스카린성 약)  <ul style="list-style-type: none"> • Nicotinic acid (비타민, 조효소, 혈관확장제)  <ul style="list-style-type: none"> • (-)-Scopolamine (Adverse ocular effects) 

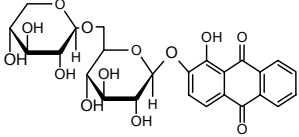

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Quercetin • Quercetin-3-O-rutinoside-7-O-β-D-glucopyranoside • Quercimeritrin • (-)-Scopolamine • Scopolamine N-oxide • Scopoletin • Stramonolide • Tropic acid • Tropine • Ubiquinone 10 • Umbelliferone • Vitastramonolide • Withaferoxolide • Withastramonolide 	<ul style="list-style-type: none"> • Quercetin(항산화, 항암활성, anti-HIV활성) • Scopoletin(진경제) • Umbelliferone (혈소판응집활성, 항진균성) • Scopolamine N-oxide (항콜린성)  • Tropine(독성)  • Ubiquinone 10(심장혈관계) (C₅₉H₉₀O₄)
<p>디기탈리스¹⁵¹⁾ <i>Digitalis purpurea</i> L. (현삼과)</p>	<p>잎, 강심제 이뇨제</p>	<ul style="list-style-type: none"> • 14α,15α-Epoxy-β-anhydro-digitoxin • Calceolarioside A • Digiproside • Gitaloxin • Glucogitaloxin • 4-Hydroxy-digitolutein • 3-Methyl-alizarin • 1-Methyl-quinizarin • Peonidin-3-O-β-D-glucoside • Purpureagitoside • Purpureaglycoside B • Purpureaside B 	<ul style="list-style-type: none"> • Gitaloxin (심장독성)  • Purpureaside B(항균활성) 

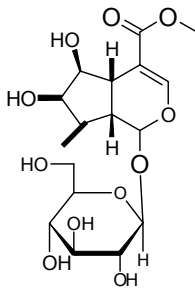
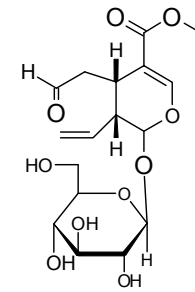
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>송이풀¹¹⁷⁾ <i>Pedicularis respinata</i> L. (현삼과)</p>	<p>전초, 이수 거풍 소염</p>	<ul style="list-style-type: none"> • 2α,3β,19α-trihydroxyurs-12-ene-23,28-dioic acid, 28-O-β-D-glucopyranosyl ester (Suavissmoside R1) 	<ul style="list-style-type: none"> • 2α,3β,19α-trihydroxyurs-12-ene-23,28-dioic acid, 28-O-β-D-glucopyranosyl ester(소염활성) 
<p>능소화^{118, 151)} <i>Campsis grandiflora</i> (Thunb.) Loisel. (능소화과)</p>	<p>꽃, 이뇨 통경약</p>	<ul style="list-style-type: none"> • Apigenin • β-Sitosterol • Boschniakine (R-form) • Cachineside I , III, IV, V • Campenoside • Campneoside I , II • Campsaside • Dihydrokaempferol-3-O-α-L-rhamnopyranoside-5-O-β-D-glucopyranoside • Naringenin-7-O-α-L-rhamnopyranosyl-(1->4)rhamnopyranoside • 7-O-Cinnamoyltecomoside • Pondraneoside • Taxifolin-3'-O-β-D-(6'-O-phenylacetyl)-glucopyranoside • Tecomoside • Verbascoside 	<ul style="list-style-type: none"> • Apigenin(독성) • β-Sitosterol(혈중지질저하제) • Verbascoside (protein Kinase C 저해, 항산화활성) • Verbascoside (protein Kinase C 저해, 항산화활성)  

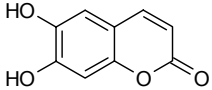
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
질경이 ¹⁵¹⁾ <i>Plantago asiatica</i> L. (질경이과)	전초, 종자 <전초> 소염 이뇨제 <종자> 진해 하리 만성변비	<ul style="list-style-type: none"> • α-Amyrin • (-)-α-Copaene • α-Pinene(+,-) • α-Terpineol • α-Terpineol acetate • Apigenin • Aucubin • Benzyl alcohol • β-Amyrin • (+)-β-Pinene • β-Sitosterol • Calceolarioside B • Campesterol • Carvacrol • Catalpol • Citronellol acetate • Citronellol; (R)-form • Daucosterol • Desrhamnosyl acetoside • Desrhamnosylacteoside • 3,7-Dimethyl-2,6-octadien-1-ol; (E)-form, acetate • Dinatin • 2-Ethylhexanol • Eugenol • Furfuryl alcohol • Geniposidic acid • Geniposidic acid aglycone • Geraniol • Guaiacol • Hellicoside • 6-Hydroxyluteolin • Isoacteoside • Isomartynoside • Leucosceptoside A 	<ul style="list-style-type: none"> • α-Terpineol(향료성분) • α-Pinene(+,-) (Attractive to bark beetles) • Apigenin(독성) • Aucubin(항균활성) • Benzyl alcohol(항균방부제) • β-Amyrin(항생제) • (+)-β-Pinene (피부자극독성) • β-Sitosterol (혈중지질저하제) • Carvacrol(독성, 피부자극) • Citronellal; (R)-form (벌레퇴치방향제) • Daucosterol (항종양성, 전립선비대치료제) • Eugenol(항진균, 방부제) • Furfuryl alcohol (피부, 코, 목구멍자극) • Geraniol(피부자극) • 3,7-Dimethyl-2,6-octadien-1-ol; (E)-form, acetate (향료, 향미성분) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Dinatin(항종양제) <div style="text-align: center;">  </div>

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Linalool • Luteolin • Luteolin-7-O-β-D-glucuronopyranoside • Martynoside • 6-Methoxy-apigenin-7-O-β-D-glucopyranoside • Nepetin • Nepitrin • Nerol • Nerolidol • o-Cresol , m-Cresol, p-Cresol • p-Cymene • 3',4',5,6,7-Pentahydroxyflavone-7-O-β-D-Glucopyranoside • Phenol • 2-Phenylethanol • Plantaginin • Plantaglucide • Plantago mucilage A • Plantagoside • Plantainoside A, B, C, D, E, F • Plantamajoside • Plantasan • p-Menth-1-ene: (R)-form • Scutellarein • Stigmasterol • Terpinen-4-ol • Terpinolene • 4',5,7-Trihydroxy-6-methoxyflavone-7-O-α-L-rhamnopyranoside • Verbascoside 	<ul style="list-style-type: none"> • Linalool(진경약) • Luteolin(소염제) • Nerol (피부자극독성) • Nerolidol(향수성분) • Terpinolene (흰개미페로몬 경보) • p-Cymene (독성) • 2-Phenylethanol (항균성) • Terpinen-4-ol (진해, 거담, 진통제) • Verbascoside (protein Kinase C 저해, 항산화활성) • 2-Ethylhexanol(피부, 눈자극)  <ul style="list-style-type: none"> • Guaiacol(피부, 눈자극)  <ul style="list-style-type: none"> • Nepetin (항산화성)  <ul style="list-style-type: none"> • Plantamajoside(E.coli 항균성) 

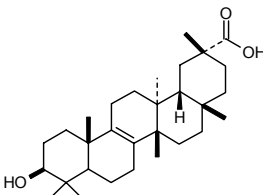
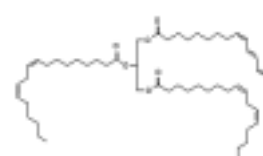
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
<p>치자나무¹⁵¹⁾ <i>Gardenia</i> <i>jasminoides</i> Ellis. (꼭두서니과)</p>	<p>과실, 하열 지혈 항고혈압</p>	<ul style="list-style-type: none"> · Acetyloleanolic acid · β-Sitosterol · Cerbinal · Chlorogenic acid · Crocetin · Crocin · Crocin glucoside · Deacetylasperulodidic acid methyl ester · 3,4-Dicaffeoyl-O-5-(3-hydroxy-3-methyl-glutaroyl)-quinic acid · 3,5-Di-O-caffeoyl-4-O-(3-hydroxy-3-methyl)glutarylquinic acid · D-Mannitol · Feretoside · Gardenamide · Gardendiol · Gardenic acid · Gardenolic acid B · Gardenone · Gardenoside · Genipin · Genipin-1-O-gentiobioside · Geniposide · Geniposidic acid · Geniposidic acid aglycone · Hex-cis-3-en-1-ol tiglolate · Jasminoside B ,C, D · Linalool · 3-O-Caffeoyl-4-O-sinapoylquinic acid · 6''-p-Coumaroyl-genipin-gentiobioside 	<ul style="list-style-type: none"> · β-Sitosterol (혈중지질저하제) · Chlorogenic acid (serum triglyceride저해) · Linalool(진경약) · Quinic acid (Trysin inhibitor) · Crocetin (Singlet oxygen quencher)  <ul style="list-style-type: none"> · 6''-p-Coumaroyl-genipin-gentiobioside (5-lipoxygenase inhibitor)  <ul style="list-style-type: none"> · Tiglic acid methyl ester (피부자극독성) 

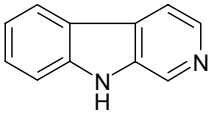
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Quinic acid • Stigmasterol • Tiglic acid methyl ester 	
<p>큰꼭두서니¹⁵¹⁾ <i>Rubia chinensis</i> Reg. et Maack (꼭두서니과)</p>	<p>뿌리, 지혈 통경 거담 황달</p>	<ul style="list-style-type: none"> • 1,6-Dihydroxy-2-methylanthraquinone-3-O-α-L-rhamnopyranosyl-(1->2)-β-D-glucopyranoside • Ruberythric acid 	<ul style="list-style-type: none"> • Ruberythric acid (독성) 
<p>인동^{119, 120, 151)} <i>Lonicera japonica</i> Thunb. (인동과)</p>	<p>꽃봉오리 이뇨 해독약 항천식</p>	<ul style="list-style-type: none"> • Acetylcholine • α-Pinene(+,-) • α-Terpineol • Apigenin • Auroxanthin • Benzyl alcohol • β-Carotene (all-trans) • Caffeic acid methyl ester • Carvacrol • Chlorogenic acid • Choline • cis-2,6,6-Trimethyl-2-vinyl-5-hydroxytetrahydropyran • Epivogeloside • epsilon-Carotene • Eugenol • ν-Carotene • Geraniol • Hederagenin-3-O-[α-L-rhamnopyranosyl-(1->2)-α-L-arabinopyranosyl]-28-O-β-D-xylopyranosyl-(1->6)-β-D-glucopyranosyl ester 	<ul style="list-style-type: none"> • Acetylcholine(신경전달물질) • α-Pinene(+,-) (Attractive to bark beetles) • apigenin(독성) • Benzyl alcohol (향균방부제) • Carvacrol(독성, 피부자극) • Chlorogenic acid (serum triglyceride저해) • Eugenol(항진균, 방부제) • Geraniol(피부자극) • ν-Carotene (비타민A활성) 

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Hederagenin-3-O-[α-L-rhamnopyranosyl(1->2)-α-L-arabinopyranosyl]-28-O-[3-O-acetyl-β-D-glucopyranosyl-(1->6)-β-D-glucopyranoside • Hederagenin-3-O-[α-L-rhamnopyranosyl-(1->2)-α-L-arabinopyranosyl]-28-O-[3-O-acetyl-β-D-xylopyranosyl-(1->6)-β-D-glucopyranoside • Linalool • Loganin • Lonicerin • Loniceroside A , B • Luteolin • Lycopene • 2-Phenylethanol • Phytofluene • Secologanin • Secologanin dimethylacetal • Secoxyloganin • Tauroside G3 • trans-2-Methyl-2-vinyl-5-(α-hydroxyisopropyl)-tetrahydrofuran • trans-2-Methyl-2-vinyl-5-(α-hydroxy-isopropyl)-tetrahydrofuran • Vanillic acid • Venoterpine • Vogeloside • Zeaxanthin (all E-form) • diosmetin 7-O-glucoside 	<ul style="list-style-type: none"> • Linalool(진경약) • Luteolin(소염제) • Loganin (알칼로이드 생합성 관련물질) • Secologanin (indole alkaloid 전물질) <div style="text-align: center;">  </div> <div style="text-align: center;">  </div>

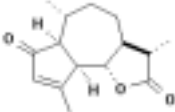
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
마타리 ¹⁵¹⁾ <i>Patrinia</i> <i>scabiosaefolia</i> Fisch. (마타리과)	뿌리, 소염 배농 해독 이뇨약	<ul style="list-style-type: none"> • Aesculetin • Akebia saponin D • Behenic acid • β-Sitosterol • Campesterol • Caproic acid • Eleutheroside K • Isopatrinen • Isorhamnetin • Kanokoside A, B, C, D • Linolenic acid • Myristic acid • 3-O-α-L-Arabinopyranosyl oleanolic acid • 3-O-[β-D-Glucopyranosyl(1->3)-α-L-rhamnopyranosyl(1->2)-α-L-arabinopyranosyl]oleanolic acid • 3-O-[β-D-Glucopyranosyl(1->3)-α-L-rhamnopyranosyl(1->2)-α-L-arabinopyranosyl]oleanolic acid-28-gentiobioside • Oleanolic acid • Oleic acid • 3-O-[(2'-O-Acetyl)-α-L-arabinopyranosyl(1->6)-β-D-glucopyranosyl]hederagenin • 3-O-(2'-O-Acetyl)-α-L-arabinopyranosylhederagenin-28-O-[β-D-glucopyranosyl(1->6)-β-D-glucopyranoside] • Patrinene • Patrinoside • Scopoletin • Sulfapatrinoside 1, II • Tetrapanax papyrifera saponin R-3 • Valerosidate 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Caproic acid (피부, 눈자극) • Eleutheroside K (진통, 소염, 이뇨, 콜레스테롤저하작용) • Myristic acid (피부, 눈독성) • Oleanolic acid(항궤양성) • Oleic acid(유화제) • Scopoletin(진경제) • Aesculetin (항진균성) <div style="text-align: center;">  </div>

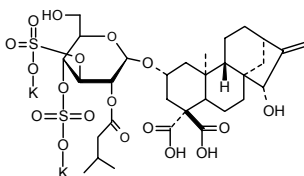
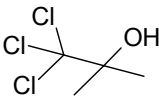
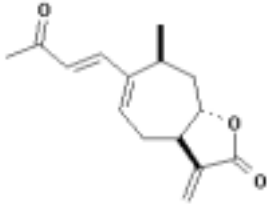
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
쥐오줌풀 ^{1, 151)} <i>Valeriana fauriei</i> Briquet (마타리과)	뿌리, 진정약 (히스테리, 정신불안정)	<ul style="list-style-type: none"> • kessylalcohol • isovalerianic acid • valeric acid • α-Kessol acetate • 8β-Acetoxy-patchouli alcohol • 8β-Hydroxy-patchouli alcohol • Cyclokessol acetate • Cyclokessyl acetate • 1,4-Dimethyl-7-isopropenyl-4,5,6,8,9,10-hexahydro-azulen-1-ol • Faurinone • Fauronyl acetate • 2-Isopropyl-4-methyl-anisole • Kanokonyl acetate • Kessanol • Kessanol acetate • Kessol glycol 8-O-glucoside • Kessyl glycol diacetate • (1R,2R,7R)-2-Acetoxy-β-bisabolol • (1R,2R,7R)-2-Hydroxy-β-bisabolol 	
하늘타리 ^{121, 151)} <i>Trichosanthes kirilowii</i> Maxim. (박과)	뿌리, 종 자 <뿌리> 강장 해열 거담 세포독성	<ul style="list-style-type: none"> • α-Spinasterol • α-Trichosanthin • Apigetrin • Artecenin • 24β-Ethyl-cholesta-7,25-dien-3β-ol • β-Sitosterol • β-Trichosanthin • Bryonolic acid • Bryononic acid • Campesterol • Cholesterol 	<ul style="list-style-type: none"> • Apigenin(독성) • β-Sitosterol (Hypolipidaemic agent)

일반명, 학명 (과)	이용부위, 효능	구성 성분	생리활성성분(주요생리활성)
	<p><종자> 진해 거담 해열 소염약 세포독성</p>	<ul style="list-style-type: none"> • Cucurbitacin B, C • Cyclokirilodiol • D:C-Friedo-olean-9(11)-ene-3-α,29-diol diacetate • D:C-Friedo-olean-7-ene-3-α,29-diol diacetate • 5-Dehydrokarounidiol • 1,2-Dilinoleoyl-3-trichosanoylglycerin • 3-Epi-bryonolol • Epibryonolol • 3-Epi-isomultiflorenol • 24-Ethyl-3-β-hydroxy-cholesta-7,24(25)-diene • 24-Ethylcholesta-7,22,25-trien-3-β-ol • Glycerol tri-9,11,13-octadecatrienoate; (9Z,9'Z,9''Z,11E,11'E,11''E,13Z,13'Z,13''Z)-form • 3-Hydroxycucurbita-5,24-dien-7-one; 3β-form • Isocyclokirilodiol • Isokarounidiol • Karounidiol • 2-Linoleoyl-1-palmitoyl-3-trichosanoylglycerin • Luteolin-3'-O-β-D-glucopyranoside • Luteolin-4'-O-β-D-glucoside • 3-O-β-D-Glucopyranosyl-α-spinasterol • 7-Oxo-D:C-friedo-olean-9(11)-ene-3-α,29-diol diacetate • 7-Oxo-dihydrokarounidiol • Peroxidase isozyme (A-1~A-9) 	<ul style="list-style-type: none"> • Bryonolic acid (항알레르기 활성)  <ul style="list-style-type: none"> • 1,2-Dilinoleoyl-3-trichosanoylglycerin (Antitrombolysis activity) • 2-Linoleoyl-1-palmitoyl-3-trichosanoylglycerin (Antitrombolysis activity) 

일반명, 학명 (과)	이용부위, 효능	구성 성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Peroxidase isozyme (B-1~B-5) • Poriferasta-5,25-diene-3,4-diol • Poriferast-5-ene-3,4-diol • Stigma-7-en-3-β-ol-3-O-glucopyranoside;(3-β,5-α,24R)-form • Stigmast-5-ene-3,4-diol; (3β,4β,24R)-form • Tap-29 • Trichokirin • Trichosanthes kirilowii lectin • Trichosanthes lectin 	
잔대 ¹⁵¹⁾ <i>Adenophora triphylla</i> var. japonica Hara (초롱꽃과)	뿌리, 진해 거담 강장	<ul style="list-style-type: none"> • Adenophoric acid methyl ester • β-Sitosterol • Daucosterol • Lupeone • Triphyllol 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • Daucosterol(항종양성, 전립선비대치료제)
더덕 ^{1, 122)} <i>Codonopsis lanceolata</i> (Sieb.et Zucc) Trautv (초롱꽃과)	뿌리, 거담 강장 해소 친식 기관지염	<ul style="list-style-type: none"> • oleanolic acid • albigenic acid • phyrosterol • N-9-formylharman • 1-carbomethyl-β-carboline • perlolyrine • norharman 	<ul style="list-style-type: none"> • Norharman (식물생장 및 효소저해) 
도라지 ^{123, 151)} <i>Platycodon grandiflorum</i> (Jacq.) A. DC. (초롱꽃과)	뿌리, 가담 진해 배농약 항암활성	<ul style="list-style-type: none"> • Chlorogenic acid • Deapioplatycodin D • Deapioplatycodin D2 • Deapio-platycodin D3 • Methyl-2-O-methylplatyconate A • Methyl-platyconate A • 2'-O-Acetylplatycodin D • 3'-O-Acetylplatycodin D 	<ul style="list-style-type: none"> • Chlorogenic acid (serum triglyceride저해)

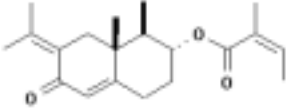
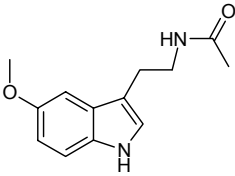
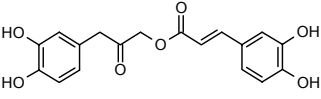
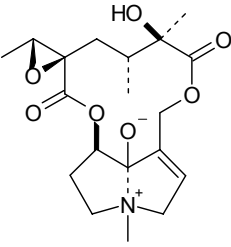
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> · 3''-O-Acetylplatycodin D-2 · 2''-O-Acetylplatycodin D-2 · 3''-O-Acetylpolygalacin D-2 · 2''-O-Acetylpolygalacin D-2 · 2''-O-Acetylpolygalacin D · 3''-O-Acetyl-polygalacin D · 3-O-β-D-Gentiobiosylplatycodigenin methyl ester · 3-O-β-D-Glucopyranosylplatycodigenin methyl ester · 3-O-β-D-Glucopyranosylplatycogenate A · 3-O-[β-D-Glucopyranosyl]-platycogenic acid A Lactone Methyl Ester · 3-O-β-D-Glucopyranosylpolygalacic acid methyl ester · 3-O-β-D-Laminaribiosylpolygalacic acid methyl ester · 3-O-β-Laminaribiosylplatycodigenin methyl ester · 3-O-[D-Glucosyl],2-O-(methyl)-platycogenic acid A · 2-O-Methyl platycogenic acid-A methyl ester · Platycodigenin methyl ester · Platycodigenin-3-O-[β-D-glucopyranoside] · Platycodin A, C, D2, D · Platycodin-D3 · Platycodoside C · Platycogenic acid-A methyl ester: 3-O-D-glucopyranosyl, 24-methyl, 28-O-[β-D-apiofuranosyl-(1-3)-(β-D-xylopyranosyl-(1->4)-α-L-rhamnopyranosyl-(1->2)-α-L-arabinopyranosyl 	


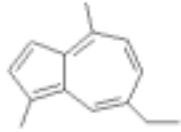
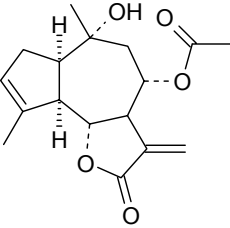
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Platyconic acid A lactone • Platyconin • Polygalacic acid methyl ester • Polygalacin D2, D 	
떡쭈 ^{1, 151)} <i>Gnaphalium affine</i> D.Don (국화과)	전초, 해소 천식 진해 거담 근육통	<ul style="list-style-type: none"> • Apigenin • Apigenin-4'-O-β-D-glucopyranoside • Dehydro-p-asebotin • Luteolin • Quercetin • Spiraoside • 5,7-Dihydroxy-3,6-dimethoxy flavone • Helichrysin 	<ul style="list-style-type: none"> • Apigenin(독성) • Luteolin(소염제) • Quercetin(항산화, 항암활성, anti-HIV활성)
금불초 ¹⁾ <i>Inula japonica</i> Thunb. (국화과)	꽃, 진통 이뇨 하품 제거제	<ul style="list-style-type: none"> • Deacetylulnicin • Inulicin 	
담배풀 ^{1, 151)} <i>Carpesium abrotanoides</i> L. (국화과)	전초, 거담 지혈 해독 이뇨약	<ul style="list-style-type: none"> • Carabrone • Carpesialactone • Carpesiolin • 11(13)-Dihydrotelekin • Granilin • Isoivaxillin • Ivalin • Ivaxillin • Telekin 	<ul style="list-style-type: none"> • Carpesialactone (강한자극독성) 
도꼬마리 ^{1, 151)} <i>Xanthium strumarium</i> L. (국화과)	과실, 말한 두통 해독	<ul style="list-style-type: none"> • Artecenin • Caffeic acid • Campesterol • Carboxyatractyloside • Chlorobutanol 	<ul style="list-style-type: none"> • Caffeic acid (항종양, 항HIV, 항산화활성)

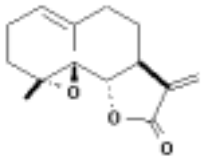
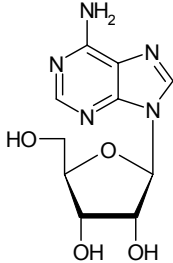
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
	구충약	<ul style="list-style-type: none"> • Choline • Daucosterol • Deacetoxyxanthumin • 1,4:4,5-Diepoxy-11(13)-xanthan-12-oic acid; (1β,4β,5βH,10β)-form • 6,9-Dihydroxyxanthatin: (2E,6β,8β,9β,10β)-form • 1,4-Epidioxy-4,5-epoxy-2,11(13)-xanthadien-12,8-olide; (1α,4α,5αH,8α,10β)-form • Episilon-Sitosterol • Isohexacosane • Isoxanthanol • Nigelllic acid • Oleic acid • 4-Oxo-1(5),2-xanthadien-12,8-olide • Santatin • Stearyl alcohol • Stigmasterol • 5,7,3',4'-Tetrahydroxy-8-(delta-3-isopentenyl)-flavone • Tomentosin • 1,3,5-Tricaffeoylquinic acid • Xanthanol • Xanthatin • Xanthinin • Xanthinosin • Xanthium strumarium hypoglycemic substance • Xanthumanol • Xanthumin 	<ul style="list-style-type: none"> • Daucosterol (항종양성, 전립선비대치료제) • oleic acid(유화제) • Carboxyatractyloside(맹독성)  <ul style="list-style-type: none"> • Chlorobutanol (항균, 진통, 진정, 소양)  <ul style="list-style-type: none"> • Xanthatin(항균제) 

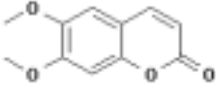
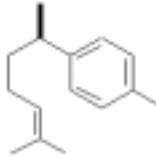
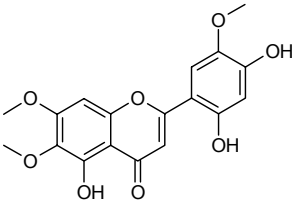
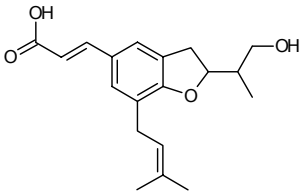
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
미역취 ¹⁾ <i>Solidago virgaurea</i> L. var. asiatica Nakai (국화과)	전초, 건위 이뇨약	<ul style="list-style-type: none"> • Matricarialactone • Polygalacic acid • Virgaureoside A 	
쑥부쟁이 ¹²⁴⁾ <i>Kalimeris yomena</i> Kitam. (국화과)	전초, 천식 기관지염 거담 감기류	<ul style="list-style-type: none"> • α-Terpinene • Cyperene • 9,10-Dehydro-isolongifolene • (+)-β-Guaiene • ν-Selinene • (3S,4R,5S,6R,7S)-Aristol-p-en-3-al 	<ul style="list-style-type: none"> • α-Terpinene (향미제)
개미취 ^{1, 151)} <i>Aster tataricus</i> L. f. (국화과)	뿌리, 근경 진해 거담 이뇨약	<ul style="list-style-type: none"> • 6'-Acetoxy-β-cycloaurapten • Angelica ester • Aster saponin Ha methyl ester • Aster saponin Hc methyl ester • Aster saponin Hd methyl ester • Asterin A, B • Asterinin A, B, C, D, E, F • Astersaponin A, B, C, D, E, F, G • Astin G, I, J • Auraptene • 6',7'-Epoxyauraptene • 3',6'-Epoxycycloaurapten • Foetidissimoside A methyl ester • Friedelin • Hederagenin • 6'-Hydroxy-β-cycloaurapten • Lachnophyllum ester • Quercetin • Shionone • Shionoside A, B, C 	<ul style="list-style-type: none"> • Hederagenin (Epicarcinogen inhibitor) • Quercetin(항산화, 항암활성, anti-HIV활성)

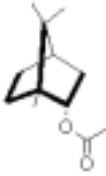
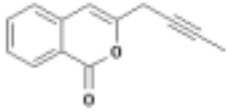
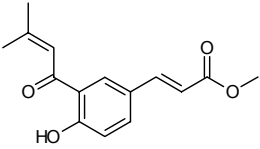
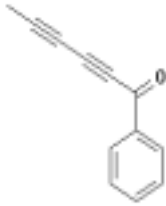
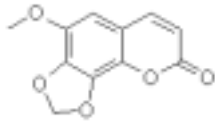
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
<p>머위^{125, 151)} <i>Petasites japonicus</i> F. Schmidt. (국화과)</p>	<p>뿌리, 해독 소염 진해 간독성</p>	<ul style="list-style-type: none"> · 3-β,8-α-Dihydroxy-6-β-tigloyloxyeremophil-7(11)-en-12,8-β-olide · 6-β-Angeloyloxy-3-β,8-α-dihydroxyeremophilen-7(11)-en-12,8-β-olide · 6-β-Angeloyloxy-3-β-hydroxy-eremophil-7(11)-en-12,8-β-olide · 6-β-Angeloyloxy-8-β-hydroxy-3-oxoeremophil-7(11)-en-12,8-α-olide · 3β,6β,8β,9β-Tetrahydroxy-7(11)-eremophilen-12,8α-olide; 6-Angeloyl · 3-β,6-β-Diangeloyloxyeremophil-7(11)-en-12, 8-β-olide · 3-β-Hydroxy-6-β,8-α-dimethoxyeremophil-7(11)-en-12,8-β-olide · 3-β-Hydroxy-6-β-methoxyeremophil-7(11)-en-12,8-β-olide · 3-β-Hydroxy-6-β-tigloyloxyeremophil-7(11)-en-12,8-β-olide · 3-β-Hydroxy-eremophil-7(11)-en-12,8-β-olide · 3,6-Dihydroxy-7(11)-eremophilen-12,8-olide: (3β,6β,8α,10β)-form, 6-Angeloyl · 3,6-Dihydroxy-7(11)-eremophilen-12,8-olide: (3β,6β,8α,10β)-form, 3-Ketone, 6-angeloyl · 3,6-Dihydroxy-7(11)-eremophilen-12,8-olide: (3β,6β,8α,10β)-form, 6-Me ether · 3,6-Dihydroxy-7(11)-eremophilen-12,8-olide: (3β,6β,8β,10β)-form, 6-Angeloyl · 3,6-Dihydroxy-7(11)-eremophilen-12,8-olide: (3β,6β, 8 β , 1 0 β) - f o r m , 6-(3-Chloro-2-hydroxy-2-methylbutanoyl) · 3,6-Dihydroxy-7(11)-eremophilen-12,8-olide: (3β,6β,8β,10β)-form, 3,6-Diangeloyl · 3,6-Dihydroxy-7(11)-eremophilen-12,8-olide: (3β,6β, 8 β , 1 0 β) - f o r m , 6-(2,3-Epoxy-2-methylbutanoyl) · 3,6-Dihydroxy-7(11)-eremophilen-12,8-olide: (3β,6β,8β,10β)-form, 6-Me ether · 3,6-Dihydroxy-7(11)-eremophilen-12,8-olide: (3β,6β,8β,10β)-form, 6-Tigloyl 	

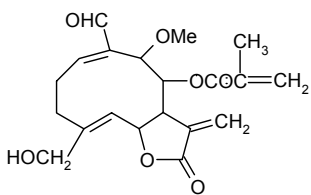
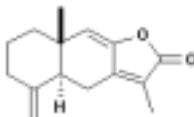

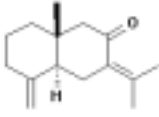
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Epoxyeremopetasinorol • Eremopetasidione • Eremopetasinorol • Eremopetasinorone A, B • Eremopetasitenin A2 , B1, B2 • Eremosulphoxinolide A, B • Fukinanolide • Fukinolide • Furanofukinol • 3-Hydroxy-6,8-dimethoxy-7(11)-eremophilen-12,8-olide • 3-Hydroxy-7(11)-eremophilen-12,8-olide; (3β,8β)-form • 3-Hydroxy-6-methoxy-7(11)-eremophilen-12,8-olide • 8-Hydroxy-3-oxo-7(11)-eremophilen-12,8-olide; (8β OH,10β)-form • Isopetasin • Isopetasoside • Melatonin • Neopetasitenine • Petasin • Petasinine • Petasinoside • Petasiphenol • Petasiphenone • Petasiphenone • Petasitenine • Petasitin • Secoeremopetasitolide A, B • 3,6,8-Trihydroxy-7(11)-eremophilen-12,8-olide; (3β,6β,8α OH)-form, 6-Tigloyl 	<ul style="list-style-type: none"> • Isopetasin (근육이완)  <ul style="list-style-type: none"> • Melatonin (송과선에 의한 트립토판 대사 산물)  <ul style="list-style-type: none"> • Petasiphenol (Bio-antimutagen)  <ul style="list-style-type: none"> • Petasitenine (발암성, 간세포독성) 

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • 3,6,9-Trihydroxy-7(11)-eremophilen-12,8-olide; (3β, 6β, 8β, 9β, 10β)-form, 6-Angeloyl • 3,6,8-Trihydroxy-7(11)-eremophilen-12,8-olide;(3β,6β,8βOH)-form, 3-Ketone, 6-angeloyl • 3,6,8-Trihydroxy-7(11)-eremophilen-12,8-olide; (3β,6β,8βOH)-form, 6-Tigloyl • Undecene 	<ul style="list-style-type: none"> • Undecene (tenebrionid beetles의 방어분비물) 
구절초 ^{126, 127)} <i>Chrysanthemum sibiricum</i> Fischer (국화과)	진초, 부인병 위장병	<ul style="list-style-type: none"> • Linarin • Hydroxycoumarin • Scopoletin • Esculetin • Chamazulene 	<ul style="list-style-type: none"> • Scopoletin(진경제) • Esculetin(항진균성) • Chamazulene(소염작용) 
감국 ^{128, 151)} <i>Chrysanthemum indicum</i> L. (국화과)	꽃, 두통 복통 토사곽란	<ul style="list-style-type: none"> • Acacetin • Acacetin-7-O-β-D-galactopyranoside • Acaciin • 8-Acetoxy-2-(hexa-2,4-dienylidene)-1,6-dioxaspiro-[4.5]-dec-3-ene • Angeloylajadin • Arteglasin A • Artemisia-trans-spiroketalenoether-polyne • Buddleoglucoside • Chamazulene • Chrysanthemol • Chrysanthetriol • Cumambrin A • Daucoesterol 	<ul style="list-style-type: none"> • Chamazulene(소염작용) • Daucoesterol(항종양성, 전립선비대치료제) • Luteolin(소염제) • Apigenin(독성) • Cumambrin A (항균활성) 

일반명, 학명 (과)	이용부위, 효능	구성 성분	생리활성 성분(주요 생리활성)
		<ul style="list-style-type: none"> • Fargesin • Handelin • 2-(Hexa-2,4-diynylidene)-1,6-dioxaspiro-[4.5]-dec-3-ene • Indicumenone • Luteolin • Parthenolide • Penduletin • (+)-Sesamin • Tanacetin • Adenosine • Apigenin • 1-Octen-3-ol 3-O-β-D-xylopyranosyl(1→6)-β-D-glucopyranoside 	<ul style="list-style-type: none"> • Parthenolide (독성, 항종양성)  <ul style="list-style-type: none"> • Adenosine (Antiarrhythmic agent. 심장수축제) 
<p>사철쭉¹⁵¹⁾ <i>Artemisia capillaris</i> Thunb. (국화과)</p>	<p>지상부, 꽃 황달 습진</p>	<ul style="list-style-type: none"> • Abscisic acid (S-form) • Aesculetin dimethyl ether • (-)-α-Copaene • α-Curcumene • α-Pinene(+,-) • α-Terpineol • Apigenin • Arcapillin • Artemisia ketone • Artepillin A, B, C • β-Bisabolene • β-Gurjunene • (+)-β-Pinene • β-Sitosterol • Borneol acetate • Butyric acid • Caffeic acid • Capillanol 	<ul style="list-style-type: none"> • α-Pinene(+,-) (딱정벌레울음유발) • α-Terpineol (향수성분) • Apigenin(독성) • β-Sitosterol (혈중지질저하제) • (+)-β-Pinene (독성, 피부자극) • caffeic acid (항종양, 항HIV, 항산화활성) • 3-Carene(피부자극) • Chlorogenic acid (serum triglyceride저해) • 1,8-Cineole(방부제) • Eugenol(항진균, 방부제)

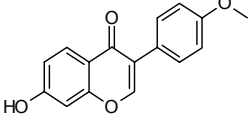
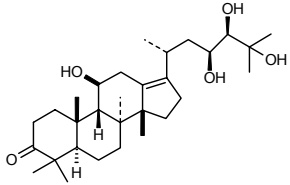
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Capillarin • Capillarisin • Capillarol • Capillartemisin • Capillartemisin A • Capillartemisin-7-methyl ether • Capillen • Capillen • Capillone • 3-Carene • Chlorogenic acid • 1,8-Cineole • Cirsilineol • Coumarin • Dehydrofalcarinol • Dehydrofalcarinone • 6-Demethoxycapillarisin • 6-Demethoxy-4'-methylcapillarisin • 3,5-Dimethoxyallylbenzene • 4,5-Di-O-caffeoylquinic acid • 3,5-Di-O-caffeoylquinic acid • 1,3,11-Elematriene • 4-Ethylphenol • Eugenol • Eupatolitin • Falcarinol • γ-Terpinene • Genkwanin • Gibberellin A3 • Isoarcapillin • (-)-Isoborneol • Isochlorogenic acid B • Isoscopoletin 	<ul style="list-style-type: none"> • γ-Terpinene (독성) • Butyric acid(피부, 눈자극) • p-Cymene (독성) • Quinic acid (Trysin inhibitor) • Scopoletin(진경제) • Terpinolene (흰개미페로몬 경보) • Aesculetin dimethyl ether (진통효과) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • α-Curcumene (항암활성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Arcapillin (항간세포독성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Artepillin A (담즙분비촉진활성) <div style="text-align: center;">  </div>

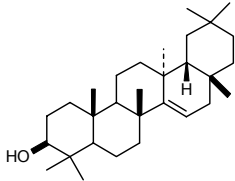
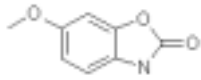
일반명, 학명 (과)	이용부위, 효능	구성 성분	생리활성 성분(주요 생리활성)
		<ul style="list-style-type: none"> • Luteolin-3'-methyl ether • Cresol (o, m, p) • Methoxycapillene • 6-Methoxy-7,8-methylenedioxy coumarin • 4'-Methylcapillarisin • 7-Methylcapillarisin • Methyleugenol • Neocapillen • Norcapillen • o-Ethylphenol • o-Methoxycapillen • p-Cymene • 8-p-Cymenol • Phenol • (+)-1-Phenylhexa-2,4-diyne-1-ol • 1-Phenylpenta-2,4-diyne • Quinic acid • Rhamnocitrin • Sanguin H1 • Scoparone • Scopoletin • Terpinolene • trans-α-Bergamotene • trans-Ocimene • 5,6,7-Trihydroxycoumarin 	<ul style="list-style-type: none"> • 6-Demethoxycapillarisin (혈관 확장제) • Borneol acetate (향료)  <ul style="list-style-type: none"> • Capillarin (Ca²⁺ 길항근활성)  <ul style="list-style-type: none"> • Capillarol (뿌리 성장 조절)  <ul style="list-style-type: none"> • Capillone (항진균제)  <ul style="list-style-type: none"> • 6-Methoxy-7,8-methylenedioxy coumarin (Ca²⁺ 길항근활성) 

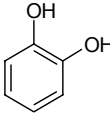
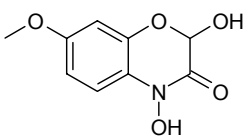
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
털진득찰 ^{1, 129)} <i>Siegesbeckia orientalis</i> L. ssp. pubescens (Kakino) Kitam. (국화과)	전초, 근육통 간염 해독 혈압강하	<ul style="list-style-type: none"> Pubetalin(6-formyl-2,3,3a,4,5,8,9,11a-octahydro-10-hydroxymethyl-5-methoxy-3-methylene-2-oxocyclodeca<math>\beta</math>-furan-4-yl ester of 2-methyl-2-propenoic acid) 	<ul style="list-style-type: none"> Pubetalin(세포독성) 
한련초 ¹⁵¹⁾ <i>Eclipta prostrata</i> L. (국화과)	전초, 청혈 지혈약 하제 강장제	<ul style="list-style-type: none"> 5-(3-Buten-1-ynyl)-5'-hydroxymethyl-2,2'-bithiophene; Angeloyl 5-(3-Buten-1-ynyl)-5'-hydroxymethyl-2,2'-bithiophene; Tigloyl 2,2':5',2''-Terthiophene-5-methanol 	
삼주 ^{1, 151)} <i>Atractylodes japonica</i> Koidz. (국화과)	근경, 건위 이뇨약	<ul style="list-style-type: none"> Atractylenolide I, II, III Atractylodin Atractylon 3-β-Acetoxyatractylon 1,4-Diacetyltetradeca-6,12-diene-8,10-diyne (6E,12E)-Tetradecadiene-8,10-diyne-1,3-diol diacetate 1(5),11-Guaiadiene 3-Hydroxyatractylon Selina-4(14),7(11)-diene-8-one Tetradeca-4-trans-6-trans-12-trans-triene-8,10-diyne-1,3-diol diacetate 	<ul style="list-style-type: none"> Atractylenolide (항염활성) Atractylenolide I  <ul style="list-style-type: none"> Atractylodin(항균, 항진균성)  <ul style="list-style-type: none"> Selina-4(14),7(11)-diene-8-one (항염활성) 

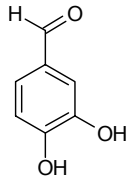
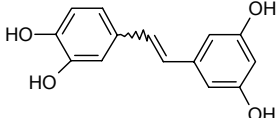
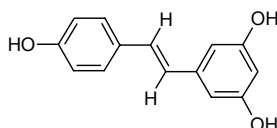
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
영경퀴 ^{1, 151)} <i>Cirsium japonicum</i> DC. (국화과)	지상부, 건위 소염 신경통 최면약	<ul style="list-style-type: none"> • Ciryneol A, B, C, D, E • 9,10-cis-Epoxyheptadec-16-ene-4,6-diyne-8-ol • Heptadec-1-ene-11,13-diyne-8,9,10-triol(8S, 9R, 10S) • Hispidulin 7-neohesperidoside • Licoricidin • Pectolinarin • Tridec-1-ene-3,5,7,9,11-pentayne 	
지칭개 ¹³⁰⁾ <i>Hemistepta lyrata</i> Bunge (국화과)	전초, 하열 해독 종기	<ul style="list-style-type: none"> • Isoamberiboin • 8-Hydroxyzaluzanin 	
조뱅이 ¹³¹⁾ <i>Breea segetum</i> (Bunge) Kitamura (국화과)	전초, 이뇨 지혈 강압 항균작용	<ul style="list-style-type: none"> • Acaciin • Acacetin-7-O-glycoside 	
민들레 ^{1, 151)} <i>Taraxacum platycarpum</i> H. Dahlst. (국화과)	전초, 고미건위 이뇨 최유약	<ul style="list-style-type: none"> • Neolupenol acetate • Tarolupenol acetate • Taraxasterol • Taraxerol • β-Amyrin • Violaxanthin • Lutein • Flavoxanthin • Arnidiol • Choline 	<ul style="list-style-type: none"> • β-Amyrin(항생제) • Lutein(항산화제)

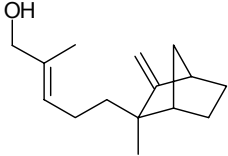
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
한라민들레 ¹³²⁾ <i>Taraxacum hallaisanense</i> Nakai (국화과)	지상부, 뿌리 건위 이노 발한 해열 황달	<ul style="list-style-type: none"> • 3,4-Dihydroxybenzoic acid (protocatechuic acid) • Luteolin-7-O-α-L-rhamnopyranosyl(1\rightarrow6)-β-D-glucopyranoside • Luteolin-7-O-β-D-glucopyranoside 	<ul style="list-style-type: none"> • Protocatechuic acid (영양화학적저해제)
썸바귀 ^{133, 134)} <i>Ixeris dentata</i> Nakai (국화과)	전초, 진정 최면 건위 항발암효과	<ul style="list-style-type: none"> • 9β-Hydroxy-(1α,5α)-guaian-4(15),10(14)-diene-6α,12-olide-3-O-β-D-glucoside • Luteolin-7-O-β-D-glucoside 	
뽕리뱅이 ¹³⁵⁾ <i>Youngia japonica</i> (L.) DC. (국화과)	전초 해열 진통	<ul style="list-style-type: none"> • Isoamberboin • Isolipidol 	
고들빼기 ^{136, 137)} <i>Ixeris sonchifolia</i> Hance (국화과)	전초, 건위 진정 이노 고콜레스테롤개선효과	<ul style="list-style-type: none"> • Campesterol • Stigmasterol • Bete-sitosterol • Apigenin-7-O-glucuronide • Luteolin-7-O-glucoside (cynaroside) 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저해제)
흑삼릉 ¹³⁸⁾ <i>Sparganium stoloniferum</i> Buch-Ham. (흑삼릉과)	전초, 통경 최유 건위 자궁경부압	<ul style="list-style-type: none"> • Sanleng acid • Succinic acid • β-Sitosterol • Daucosterol • Methyl benzoate • Formononetin • 5-ene-Methyl-cholate-3-O-D-glucuronoside 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저해제) • Daucosterol (항종양성, 전립선비대치료제)

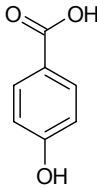
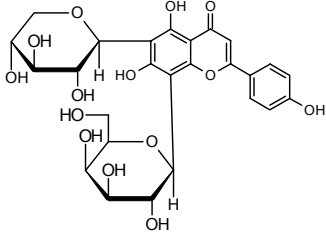
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • Pyrrol carboxylic acid ester • Phenylpropanoid glycoside • 5-ene-Methyl-cholate-3-O-β-D-glucurono-pyranosyl-(1→4)-α-L-rhamnopyranoside • β-Sitosterol-3-β-D-glucuronopyranoside • Phenylpropanoid(3-(4-hydroxyphenyl)-2-propenoic acid) • Sorbose • Cebroside(1-O-β-D-glucopyranosyl-(2S,3R,4E,8Z)-2-[(2R)-hydroxy-eicosanoyl]amido]-4,8-octadecadiene-1,3-diol) • β-Sitosterol-3-β-D-glucopyranoside 	<ul style="list-style-type: none"> • Formononetin (항진균성, 발정성) 
<p>택사^{139, 151)} <i>Alisma canaliculatum</i> A. Br. et Bouche (택사과)</p>	<p>뿌리, 이노 수종 임질</p>	<ul style="list-style-type: none"> • Alismalactone; Ac • Alismol • Alismoxide • Alisol A, B, C, D, F, G, monoacetate • 13β,17β-Epoxy-11-deoxyalisol A • 16-β-Hydroxyalisol B monoacetate • 16-β-Methoxyalisol B monoacetate • 11-Deoxyalisol A, B • 11-Deoxyalisol B 23-acetate • 11-Deoxyalisol C • 13,17-Epoxyalisol A • 24,25-Epoxy-3,11,23-trihydroxyprotost-13(17)-en-2-one;(3α,11β,23S,24R)-form, 23-Ac • 2,12-Kauranedione; (ent-16S)-form • 16-Ketoalisol A • Lactose hexaphosphate 	<ul style="list-style-type: none"> • Alisol (보간효과) Alisol A 

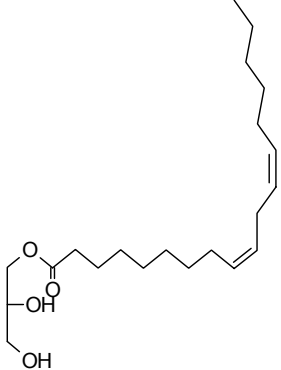
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Meliaionoside A • Orientalol A, B, C • 3-O-(6-Stearoyl)-β-D-glucopyranosylsitosterol • Sulfoorientalol A, B, C, D 	
조릿대풀 ¹⁵¹⁾ <i>Lophatherum gracile</i> Brongn (벼과)	전초, 이노 해열	<ul style="list-style-type: none"> • Arundoin • β-Sitosterol • Campesterol • Cylindrin • Friedelin • Stigmasterol • 14-Taraxeren-3-ol (3β-form) 	<ul style="list-style-type: none"> • β-Sitosterol (혈중지질저하제) • 14-Taraxeren-3-ol (3β-form) (항궤양성) 
갈대 ¹⁵¹⁾ <i>Phragmites communis</i> Trin. (벼과)	근경 지갈 해열 이노	<ul style="list-style-type: none"> • Asparagine (S-form, L-form) • Coixol • Glucose • L-Arabinose • Vitamin B2 • Vitamin B1 • Vitamin C • Xylose 	<ul style="list-style-type: none"> • Coixol(살균, 살충성) 
띪 ¹⁵¹⁾ <i>Imperata cylindrica</i> (L.) Beauv. var. <i>koenigii</i> (Retz.) Durand&Sch inz (벼과)	근경, 이노 지혈 신장염 각기 감기 가래	<ul style="list-style-type: none"> • Anemonin • Arborinol-methyl ether • Arundoin • Benzoic acid • β-Sitosterol • Campesterol • Catechol • 6-C-Glucopyranosyl-3',4',5,7-tetrahydroxyflavone • Chlorogenic acid 	<ul style="list-style-type: none"> • Anemonin (항종양, 항박테리아활성) • Benzoic acid (방부, 해열, 거담, 항균작용) • β-Sitosterol (혈중지질저하제) • Chlorogenic acid (serum triglyceride저해)

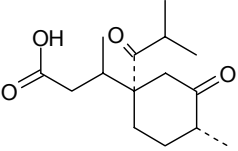
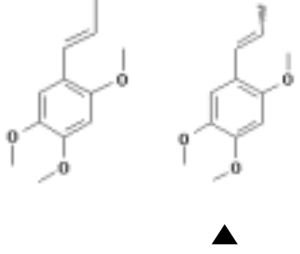
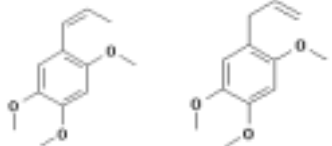
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Citric acid • Cylindrin • Fructose • Fumaric acid • Gentisic acid • Glucose • 5-Hydroxytryptamine • Neochlorogenic acid • o-Coumaric acid • Oscine • Oxalic acid • p-Hydroxybenzaldehyde • p-Hydroxybenzoic acid • Scopoletin • Scopolin • Stigmasterol • Vanillic acid • Vanillin • Xylose 	<ul style="list-style-type: none"> • p-Hydroxybenzoic acid (생장저해, 트립신저해작용) • Scopoletin(진경제) • Vanillic acid (성장저해, 트립신저해작용) • Vanillin(항산화성) • 5-Hydroxytryptamine (혈관수축) • Gentisic acid (진통, 향류마티즘, 항관절염) • o-Coumaric acid (생장저해, 트립신저해) • Catechol(방부제) <div style="text-align: center;">  </div>
<p>염주¹⁵¹⁾ <i>Coix lachryma-jobi</i> L. (벼과)</p>	<p>뿌리, 류마티스 신경통</p>	<ul style="list-style-type: none"> • Adenosine • α-Tocopherol • β-Sitosterol • Coix lacryma-jobi lectin • Coixol • 3,4-Dihydroxybenzaldehyde-4-O-β-D- glucopyranoside • 2-(2,4-Dihydroxy-7-methoxy-1,4(2H)benzoxazin-3(4H)-on)-β-D-glucopyranoside • 2,4-Dihydroxy-7-methoxy-1,4(2H)-benzoxazin-3-one • Friedelin • γ-Stigmasterol 	<ul style="list-style-type: none"> • Adenosine (Antiarrhythmic agent) • β-Sitosterol (혈중지질저하제) • α-Tocopherol (수정축진, 항산화성) • 2,4-Dihydroxy-7-methoxy-1,4(2H)-benzoxazin-3-one (살충, 살균, 살진균성) <div style="text-align: center;">  </div>

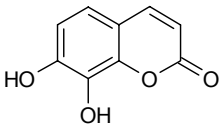
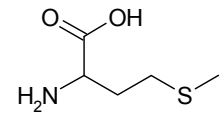
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • 2-{2-Hydroxy-7-methoxy-1,4(2H)benzoxazin-3(4H)-on}-β-D-glucopyranoside • 2-Hydroxy-7-methoxy-1,4(2H)-benzoxazin-3-one • 2-Hydroxy-7-methoxy-1,4(2H)-benzoxazin-3-one • 2-O-β-D-Glucopyranosyl-7-methoxy-1,4(2H)-benzoxazin-3-one • Polysaccharide CA-2 • Polysaccharide CA-1 • Rancinamycin IV • Stigmasterol 	<ul style="list-style-type: none"> • Rancinamycin IV(독성) 
<p>매자기¹⁵¹⁾ <i>Scirpus fluviatilis</i> (Torr.) A. Gray (사초과)</p>	<p>근경, 통경약 산후복통</p>	<ul style="list-style-type: none"> • Astringenin • Betulin • Betunaldehyde • Betulinic acid • Lupeol • Resveratrol • Scirpusin A • Scirpusin B 	<ul style="list-style-type: none"> • Betulinic acid (항종양활성, 세포소멸유발) • Lupeol(항종양제) • Astringenin (균성장억제, 식물성장억제) • Resveratrol (항진균제, 트롬복산B2형성저해)  

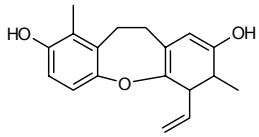
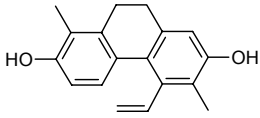
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
향부자 ^{140, 151)} <i>Cyperus rotundus</i> L. (사초과)	구경, 진통 이뇨 소염 통경 간기능보호 지질과산화억 제	<ul style="list-style-type: none"> · 3(4->5)-Abeo-4,11:4,12-diepoxy-3-eudesmanol · 4a-5a-Oxido-eudsm-11-en-3a-ol · (-)-a-Copaene · (-)-a-Cyperone · a-Cyperone; (+)-form · a-Rotunol · a-Selinene · Aureusidin · β-Farnesene · β-Guaiene · β-Rotunol · β-Santalol · β-Selinene · β-Sitosterol · (-)-Calamenene · Chlorophyll A , B · 1,8-Cineole · Copaadiene · Cyperene · Cyperenoic acid · Cyperenone · Cyperol · Cyperolone · δ-Cadinene · 1,3,11-Elematriene · 10,11-Epidioxycalamene · Epoxyguaiene · Ferulic acid · Humulene · Isocyperol · Isokobusone · Kobusone · Luteolin 	<ul style="list-style-type: none"> · β-Sitosterol (혈중지질저하제) · 1,8-Cineole(방부제) · Ferulic acid (항산화, 항종양성) · Luteolin(소염제) · β-Santalol(향료) <div style="text-align: center;">  </div>

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> • Mustakone • Oleanolic acid • Oleanolic acid 3-O-neohesperidoside • Patchoulenyl acetate • Patchouylenone • Petchoulenyl acetate • p-Hydroxybenzoic acid • Protocatechuic acid • Rhamnetin-3-O-α-L-rhamnopyranosyl-(1->4)-α-L-rhmnoyranoside • Rotundenol • Rotundone • (-)-Rotundone • Sugeonol • Sugeonyl acetate • Sugetriol • Vanillic acid • Vitamin C • Cyperotundone • Sugetriol triacetate • p-Coumaric acid 	<ul style="list-style-type: none"> • Oleanolic acid (항궤양성) • Protocatechuic acid (영양화학적저해제) • Vanillic acid (성장저해, 트립신저해작용) • p-Hydroxybenzoic acid (성장저해, 트립신저해) <div style="text-align: center;">  </div>
반하 ¹⁵¹⁾ <i>Pinellia ternata</i> (Thunb.) Breit (천남성과)	구경, 진구 진해 거담	<ul style="list-style-type: none"> • Apigenin-6-C-β-D-galactopyranoside • β-Sitosterol • Campesterol • Choline • Daucosterol • Pinellia lectin • Pinellia polysaccharide PT-F-2-1 • Pinellin • 4',5,7-Trihydroxy-6-C-β-D-galactopyranosyl-8-C-β-D-xylopyranosyl-flavone 	<ul style="list-style-type: none"> • 4',5,7-Trihydroxy,6-C-β-D-xylopyranosyl,8-C-β-D-galactopyranosyl-flavone (알도오스 환원효소저해) <div style="text-align: center;">  </div>

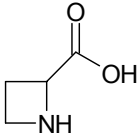
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> 4',5,7-Trihydroxy,6-C-β-D-xylopyranosyl,8-C-β-D-galactopyranosyl-flavone 	<ul style="list-style-type: none"> 4',5,7-Trihydroxy-6-C-β-D-galactopyranosyl-8-C-β-D-xylopyranosyl-flavone (알도오스 환원효소저해)
<p>천남성^{1, 151)} <i>Arisaema amurense var.seratum</i> Nakai (천남성과)</p>	<p>근경, 거담 진경 소염</p>	<ul style="list-style-type: none"> Glycerol 1-hexadecanoate 2-(9,12,15-hexadecatrienoate); (S)-(all-Z)-form, 3-O-[α-D-Galactopyranosyl-(1->6)-β-D-galactopyranoside] Glycerol 1-hexadecanoate 2-(9,12-octadecadienoate); 3-O-[α-D-Galactopyranosyl-(1->6)-β-D-galactopyranoside] Glycerol 1-hexadecanoate 2-(9-octadecenoate); 3-O-[α-D-Galactopyranosyl-(1->6)-β-D-galactopyranoside] Glycerol 1-(9,12-octadecadienoate) Glycerol 1-(9,12-octadecadienoate) 2-(9-octadecenoate);(R)-(all-Z)-form, 3-O-β-D-Galactopyranoside 1-O-β-D-Galactopyranosylglycerol 3-hexadecanoate-2-(9,12-octadecadienoate) 1-O-β-D-Galactopyranosylglycerol 3-hexadecanoate-2-(9-octadecenoate) sn-Glycerol 1-O-[α-D-galactopyranosyl(1->6)-β-D-galactopyranoside 2-(9,12-octadecadienoate) 3-octadecadecanoate 1-O-β-D-Galactopyranosylglycerol 2-(9,12,15-octadecatrienoate) 3-octadecanoate 	<ul style="list-style-type: none"> Glycerol 1-(9,12-octadecadienoate) (화분발아자극,Phospholipase A2 저해) 

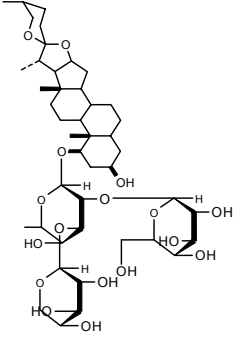
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
창포 ¹⁵¹⁾ <i>Acorus calamus var. angustatus</i> Bess. (천남성과)	근경, 지사제 건위제	<ul style="list-style-type: none"> • Acoric acid • α-Asarone • α-Pinene(+,-) • Asarone • β-Asarone • β-Gurjunene • (+)-β-Pinene • β-Selinene • 1,4,9-Cadalatriene • (-)-Calamenene • 1,8-Cineole • delta-Cadinene • 1,3,11-Elematriene • Elemicin • Estragole • Eugenol • ν-Asarone • Linalool • Lucenin 2 • Myrtenal • p-Cymene • Shyobunone • Terpinen-4-ol • trans-Isoeugenol methyl ether 	<ul style="list-style-type: none"> • (+)-β-Pinene (독성, 피부자극) • 1,8-Cineole(방부제) • Eugenol(항진균, 방부제) • Linalool(진경약) • p-Cymene (독성) • Terpinen-4-ol(진해, 거담, 진통제) • Acoric acid(진경제) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • α-Asarone(진경성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Asarone (Hypocholesterolaemic) • β-Asarone(진경성) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • ν-Asarone(진경성)

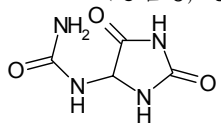
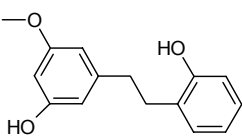
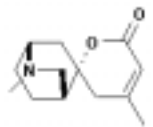
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
닭의장풀 ^{141, 142)} <i>Commelina communis</i> L. (닭의장풀과)	전초, 간염 황달 인후염 고혈압	<ul style="list-style-type: none"> • 1-Carbomethoxy-β-carboline • Norharman • Harman • (-)-Loliolide • β-Sitosterol • Fridelin 	<ul style="list-style-type: none"> • Harman(식물생장및효소저해) • Norharman(식물생장 및 효소저해) • β-Sitosterol(혈중지질저하제)
골풀 ¹⁵¹⁾ <i>Juncus effusus</i> L. (골풀과)	줄기, 수종 이뇨제	<ul style="list-style-type: none"> • Arginine • β-Alanine • β-Sitosterol • Daphnetin • Daucosterol • Dehydroeffusal • Dehydroeffusal • Dehydroeffusol • 9,10-Dihydro-3,7-dihydroxy-2,8-dimethyl-4-phenanthrenecarboxaldehyde • 9,10-Dihydro-1,7-dihydroxy-4-(1-hydroxyethyl)-2,8-dimethylphenanthrene • 9,10-Dihydro-2,6-dihydroxy-5-(1-hydroxyethyl)-1,7-dimethylphenanthrene • 9,10-Dihydro-2,7-dihydroxy-4-(hydroxymethyl)-1,8-dimethylphenanthrene • 9,10-Dihydro-2,6-dihydroxy-5-(1-methoxyethyl)-1,7-dimethylphenanthrene • 9,10-Dihydro-7-hydroxy-2,8-dimethyl-4-phenanthrenemethanol • 9,10-Dihydro-4-(1-hydroxyethyl)-1,8-dimethyl-2,7-phenanthrenediol • 9,10-Dihydro-7-hydroxy-2-methoxy-1,8-dimethyl-4-phenanthrenecarboxaldehyde • 9,10-Dihydro-7-hydroxy-2-methoxy-1,8-dimethyl-4-phenanthrenemethanol • 9,10-Dihydro-8-hydroxy-2-methoxy-1,6-dimethyl-5-vinylphenanthrene 	<ul style="list-style-type: none"> • β-Sitosterol(혈중지질저하제) • Daucosterol(항종양성, 전립선비대치료제) • Glutamic acid(체내시스템적효과) • Daphnetin(진통제) <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • (dl)-Methionine(비뇨기산성화물질) <div style="text-align: center;">  </div>

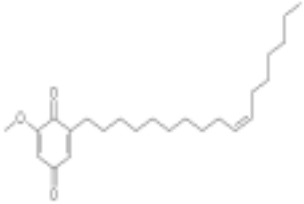
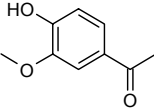
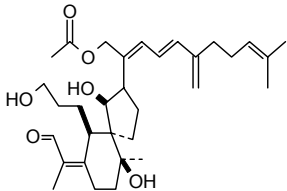
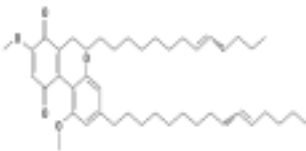
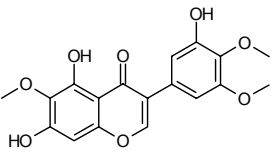
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • (dl)-Alanine • (dl)-Methionine • (dl)-Phenylalanine • (dl)-Tryptophan • (dl)-Valine • Effuside I, II, III, IV, V • Effusol • 6-Ethenyl-10,11-dihydro-1,7-dimethyldibenz[b,f]oxepin-2,8-diol • 5-Ethenyl-9,10-dihydro-1,7-dimethyl-2,3-phenanthrenediol • 4-Ethenyl-9,10-dihydro-1,8-dimethyl-2,7-phenanthrenediol • 4-Ethenyl-9,10-dihydro-3,8-dimethyl-1,7-phenanthrenediol • 4-Ethenyl-9,10-dihydro-7-hydroxy-8-methyl-1-phenanthrenecarboxylic acid • 4-Ethenyl-9,10-dihydro-7-hydroxy-8-methyl-2-phenanthrenecarboxylic acid • 4-Ethenyl-9,10-dihydro-7-hydroxy-8-methyl-2-phenanthrenemethanol • 4-Ethenyl-9,10-dihydro-7-hydroxy-8-methyl-3-phenanthrenemethanol • Glutamic acid • Juncoside I, II • Juncusol • 2-O-p-Coumaroylglycerol • 1-O-p-Coumaroyl-2,3-isopropylidene-glycerol • Serine • 1,2,6,7-Tetrahydro-4,8-dimethylphenanthro[3,4-b]furan-1,2,9-triol 	<ul style="list-style-type: none"> • 6-Ethenyl-10,11-dihydro-1,7-dimethyldibenz[b,f]oxepin-2,8-diol(세포파괴제)  <ul style="list-style-type: none"> • Juncusol (항균성, 세포독성) 

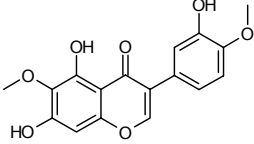
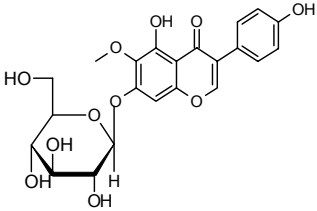
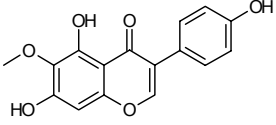
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> · 4,5,9,10-Tetrahydro-1,6-dimethyl-2,7-pyrenediol; Di-O-β-D-glucopyranoside · 4,5,9,10-Tetrahydro-1,6-dimethyl-2,7-pyrenediol; O-β-D-Glucopyranoside 	
박새 ¹⁴³⁾ <i>Veratum patulum</i> Loes.fil. (백합과)	근경, 최토 혈압강하 진통	<ul style="list-style-type: none"> · Veralkamine · Veratramine · Ruvijervine · Etioline · Veratrine 	
참나리 ¹⁵¹⁾ <i>Lilium lancifolium</i> Thunb. (백합과)	인경, 소염 이뇨 진해 진정	<ul style="list-style-type: none"> · 1-Carbomethoxy-4-(1,5-dimethyl-3-oxo-hexyl)-cyclohex-1-ene · 2'-Deoxyadenosine · 3,6'-Diferuloylsucrose · Methyl-α-D-mannopyranoside · 1-O-Caffeoylglycerol · 1-O-Feruloylglycerol · 1-O-p-Coumaroylglycerol · 2-Phenyl-4,4-dimethyldecane · 2-Phenyltetradecane · 3-Phenyltetradecane · Regalosite A, F · Sandaracopimaradiene 	
무릇 ¹⁴⁴⁾ <i>Scilla scilloides</i> (Lindl.) Druce (백합과)	전초,인경 해독 종기치료 지통	<ul style="list-style-type: none"> · Scillascilloside E-1, E-3 	<ul style="list-style-type: none"> · Scillascilloside E-1, E-3 (암세포증식억제)

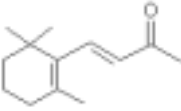
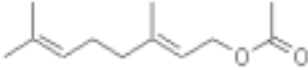
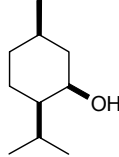
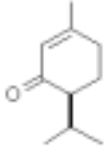
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
천문동 ¹⁵¹⁾ <i>Asparagus cochinchinensis</i> Merr (백합과)	뿌리, 진해 이뇨	<ul style="list-style-type: none"> • Asparagoside IV, V, VI, VII • Asparagus saponin Asp-IV, Asp-V, Asp-VI, Asp-VII • Aspartic acid • Methylprotogracillin • 3-O-(α-L-Rhamnopyranosyl)-(1->4)-β-D-glucopyranosyl)-26-O-(β-D-glucopyranosyl)-(25R)-furosta-5,20-dien-3β,26-diol • Pseudoprotodioscin 	
둥굴레 ¹⁵¹⁾ <i>Polygonatum odoratum</i> <i>var. pluriflorum</i> (Miq.) Ohwi (백합과)	근경, 자양, 강장 유통 구갈 해소 천식	<ul style="list-style-type: none"> • Azetidine-2-carboxylic acid • Neoprazerigenin A • POD-II • Polygonatiin • Polygonatum odoratum saponin po-c • Polygonatum odoratum saponin po-d • Polygonatum odoratum saponin po-e • Vitexin-2'-O-β-D-glucopyranoside 	<ul style="list-style-type: none"> • Azetidine-2-carboxylic acid (씨앗성장저해) 
진황정 ¹⁵¹⁾ <i>Polygonatum falcatum</i> A. Gray (백합과)	근경, 자양, 강장	<ul style="list-style-type: none"> • Luteolin-6-C-glucopyranoside • PO-2 • Polygonaquinone • Polygonatum saponin PO-7, PO-2, PO-3, PO-4 • Polysceptroside • Vitamin C 	
맥문동 ^{145, 151)} <i>Liriope platyphylla</i> Wang et Tang (백합과)	뿌리, 소염 진해 거담 지갈	<ul style="list-style-type: none"> • Aster saponin Hb methyl ester • Lm-2, 3 • Ls-2, 3, 4, 5, 6, 7 • Methylprotodioscin • Ruscogenin-3-O-α-L-rhamnopyranoside • Ruscogenin-3-O-β-D-glucopyranosyl (1->3)-α-L-rhamnopyranoside 	

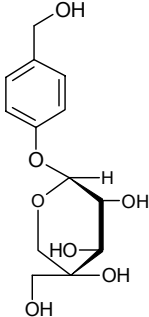
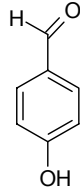
일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분 (주요생리활성)
		<ul style="list-style-type: none"> • Ruscogenin-1-sulfate-3-O-α-L-rhamnopyranoside • 25(S)-Ruscogenin-1-O-α-L-rhamnopyranosyl(1->2)-β-D-fucopyranoside • 25(S)-Ruscogenin-1-O-β-D-xylopyranosyl(1->3)-β-D-fucopyranoside • Yamogenin-3-O-[α-L-rhamnopyranosyl(1->2)]-[α-L-rhamnopyranosyl(1->4)]-β-D-glucopyranoside • Spicatoside A, B 	<ul style="list-style-type: none"> • Spicatoside A (암세포생장억제) 
<p>밀나물¹⁵¹⁾ <i>Smilax riparia</i> A. DC. (백합과)</p>	지하부,	<ul style="list-style-type: none"> • Neotigogenin; 3-O-α-rhamnopyranoyl(1->6)-β-D-glucopyranoside • Neotigogenin; 3-O-β-D-glucopyranosyl(1->4)-O-[α-L-rhamnopyranosyl(1->6)-β-D-glucopyranoside] 	
<p>청미래덩굴^{146, 151)} <i>Smilax china</i> L. (백합과)</p>	<p>뿌리, 암치료 당뇨병 이뇨 항균활성</p>	<ul style="list-style-type: none"> • Diosgenin • Isonarthogenin-3-O-α-L-rhamnopyranosyl(1->2)-O-[α-L-rhamnopyranosyl(1->4)-β-D-glucopyranoside] • Isoseryl S-methylcysteamine sulfoxide • 26-O-β-D-Glucopyranosyl-(25R)22-hydroxy-3-O-α-L-rhamnopyranosyl(1->2)D-glucopyranosyl-furost-5-ene-3β-16-diol • 26-O-β-D-Glucopyranosyl-(25R)22-methoxy-3-O-α-L-rhamnopyranosyl(1->2)D-glucopyranosyl-furost-5-ene-3 β-16-diol 	<ul style="list-style-type: none"> • Diosgenin (항염증성,발정촉진성)

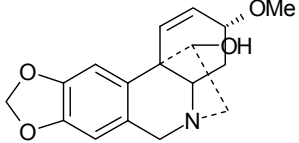
일반명, 학명 (과)	이용부위, 효능	구성 성분	생리활성 성분(주요 생리활성)
		<ul style="list-style-type: none"> • Smilax furostanol glycoside 1 • Smilax furostanol glycoside 2 • Smilax saponin A • Smilax saponin A + C • Smilax saponin B (struct. unknown. consists of diosgenin and three moles each of D-glucose and L-rhamnose) • Smilax saponin C • Smilaxin 	
청가시덩굴 ¹⁴⁷⁾ <i>Smilax sieboldii</i> Miq. (백합과)	근경, 뿌리 거풍 진통 활혈 소종 항고지혈작용	<ul style="list-style-type: none"> • Leucine • Phenylalanine • Palmitic acid • Tigogenin • Neotigogenin • Laxogenin • Smilaxin A, B, C • Sieboldiin A, B 	
마 ¹⁵¹⁾ <i>Dioscorea batatas</i> Decne. (마과)	근경, 자양강장제	<ul style="list-style-type: none"> • Allantoin • Batatasin IV • Batatasin V • β-Sitosterol • Calcium oxalate • Cholesterol • Oxalic acid • Stigmast-8-en-3-β-o;(3-β,5-α,24R)-form • Stigmasterol • Vitamin C • Dioscin • Diosgenin • Dioscorine 	<ul style="list-style-type: none"> • Allantoin(항염성, 상처약)  <ul style="list-style-type: none"> • Batatasin IV(식물생장조절)  <ul style="list-style-type: none"> • Dioscorine (독성, 경련효과) 

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
타래붓꽃 ¹⁵¹⁾ <i>Iris pallasii</i> <i>var.</i> <i>chinensis</i> Fisch. (붓꽃과)	전초, 청열 양혈 이뇨 해독	<ul style="list-style-type: none"> • Irisquinone((Z)-form) • Pallasone B • Pallasone C 	<ul style="list-style-type: none"> • Irisquinone((Z)-form) (항종양성) 
범부채 ¹⁵¹⁾ <i>Belamcanda</i> <i>chinensis</i> (L.) DC. (붓꽃과)	근경 해독 인후통 수종 하리 통경	<ul style="list-style-type: none"> • 16-Acetylisoiridogermanal • Apocynine • Belamcandal • Belamcandaquinone A, B • Belamcandol A, B • Belamcandone A, B, C, D • Belamcanidin • 3-(3-Carboxyphenyl)alanine (S-form, L-form) • 2-(3'-Carboxyphenyl)glycine • Deacetylbelamcandal • 3',5'-Dihydroxy-4',5'-dimethoxy-6,7-methylenedioxyisoflavone • Dimethyltectorigenin • Iridin • Irogenin • Irisflorentin • Iristectorigenin A, B • Isoiridogermanal • Methyl irisolidone • Muningin • (+)-(6R,10S,11S,14S,26R)-26-Hydroxy-15-methylidenespiroirid-16-enal • Sheganone • Shegansu A • Tectoridin • Tectorigenin 	<ul style="list-style-type: none"> • Apocynine(강심제)  • Belamcandal (인후막 자극)  • Belamcandaquinone A (Cyclooxygenase억제제)  • Irogenin(항진균성) 

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
			<ul style="list-style-type: none"> • Iristectorigenin A (항고혈압성)  <ul style="list-style-type: none"> • Tectoridin(항염증제)  <ul style="list-style-type: none"> • Tectorigenin(항염증제) 
<p>양하¹⁵¹⁾ <i>Zingiber mioga</i> (Thunb.) Rosc. (생강과)</p>	<p>근경 거담 진해 소종</p>	<ul style="list-style-type: none"> • Acetaldehyde • (-)-α-Cadinol • α-Pinene(+,-) • α-Terpineol • Benzothiazole • β-Ionone • Bicycloelemene • Borneol acetate • Butan-1-ol • Butan-2-ol • Butan-2-one • But-3-en-2-one • 1,8-Cineole • Citral • δ-Elemene 	<ul style="list-style-type: none"> • α-Pinene(+,-) (딱정벌레울음유발) • α-Terpineol (향수성분) • Borneol acetate(향수) • 1,8-Cineole(방부제) • eugenol(항진균,방부제) • Fenchol(향료) • Geraniol(피부자극) • Indole (독성) • Linalool(진경약) • Nerolidol(향수성분) • p-Cymene (독성) • 2-Phenylethanol(향균성)

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
		<ul style="list-style-type: none"> · 3,7-Dimethyl-2,6-octadien-1-ol; (E)-form, acetate · Dodecanoic acid ethyl ester · 1,3,11-Elementiene · Ethyl acetate · Eugenol · Fenchol · Fenchone · γ-Elemene · Geranic acid methyl ester · Geraniol · Geranylinalool · (-)-Germacrene D · Indole · Isobutanol · 2-Isobutyl-3-methoxypyrazine · 2-Isopropyl-3-methoxypyrazine · Linalool · 3-Methylbut-trans-2-en-1-al · 3-Methylbutyl acetate · Methyl ethyl ketone, MEK · m-Xylene · Myrtenal · Myrtenol acetate · Neoisomenthol · Nerolidol · Oxalic acid · p-Cymene · 8-p-Cymenol · Phenol · 2-Phenylethanol · Pinocarveol 	<ul style="list-style-type: none"> · β-Ionone(향수성분)  <ul style="list-style-type: none"> · 3,7-Dimethyl-2,6-octadien-1-ol; (E)-form, acetate  <ul style="list-style-type: none"> · Neoisomenthol (자극독성, 알레르기 유발물질)  <ul style="list-style-type: none"> · Piperitone; (S)-form (향천식제) 

일반명, 학명 (과)	이용부위, 효능	구성 성분	생리활성 성분(주요 생리활성)
		<ul style="list-style-type: none"> • Piperitone; (S)-form • Propan-1-ol • Propyl acetate • 2-sec-Butyl-3-methoxypyrazine • Toluene • trans-Carveol • trans-Isoeugenol methyl ether • trans-3-Methylbut-2-en-1-al • trans-Ocimene • trans-Sabinene hydrate (1R,4R,5R) 	
<p>천마^{149, 150, 151)} <i>Gastrodia elata</i> Bl. (난초과)</p>	<p>근경, 두통 신경통 현기증 소아경련 간질 류마티스 항혈소판 항혈전활성 항산화작용</p>	<ul style="list-style-type: none"> • Armillarin • 4-(β-D-Glucopyranosyloxy)benzyl alcohol • Bis(4-hydroxybenzyl)ether • Citric acid • 4,4'-Dihydroxydibenzyl ether • 4,4'-Dihydroxydiphenylmethane • 4-Ethoxy-methylphenol • 4-Ethoxy-methylphenyl-4'-hydroxy-benzyl ether • Gastrodin • Gastrodioside • 4-Hydroxybenzyl methyl ether • Parishin • p-Hydroxybenzaldehyde • p-Hydroxybenzyl alcohol • Rancinamycin IV • Stigmast-5-en-3-ol; 4-Hydroxybenzyl ether • Succinic acid • 4,4'-[Sulfinylbis(methylene)]bis[phenol] 	<ul style="list-style-type: none"> • 4-(β-D-Glucopyranosyloxy)benzyl alcohol (진정, 진경, 항고혈압, 최면성)  <ul style="list-style-type: none"> • p-Hydroxybenzaldehyde (생장저해독성) 

일반명, 학명 (과)	이용부위, 효능	구성성분	생리활성성분(주요생리활성)
석곡 ¹⁾ <i>Dendrobium moniliforme</i> (L.) Sw. (난초과)	전초, 건위 강장 하열 구갈 구토	<ul style="list-style-type: none"> • Dendrobine • Dendramine • Nobilonine 	
문주란 ¹⁴⁸⁾ <i>Crinum asiaticum</i> var <i>japonicum</i> (수선화과)	전초	<ul style="list-style-type: none"> • (+)-Crinamine • (5S,16S)-N-Demethylgalanthamine • (5S,16R)-N-Demethylgalanthamine • Lycorine • 4',7-Dihydroxy flavan • 4',7-Dihydroxy-4-methoxy-chalcone 	<ul style="list-style-type: none"> • (+)-Crinamine (암세포성장저해활성, 항바이러스효과) 

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[Abstract]

Literature Survey on the Bioactivity and Component of the Plants Growing in Jeju

Bo geon Kim

Major in Chemistry Education

Graduate School of Education, Jeju National University

Jeju, Korea.

Supervised by Professor Nam Ho Lee

Every plants has its own second metabolites such as alkaloids, glycosides, terpenoides, steroides, and some of which show characteristic human bioactivities. Jeju is unique in terms of the variety of plant species, because the island consists of the only subtropical weather in Korea due to the most southern location in the nation. In addition, because of 1950m height Halla mountain located at the center of the island, plants of both the high and low elevated areas are grown in Jeju.

In this thesis was described the literature survey about the biological activity and chemical component of the 1066 plant species growing in Jeju. Out of them, 232 species of the plant was described to have bioactive component in the literature. Based on the number of elucidated active components, plants such as *Foeniculum vulgare* Mill, *Plantago asiatica* L., *Artemisia capillaris* Thunb, *Polygonum hydropiper* L., *Camellia japonica* L. have been found to be examined most extensively. Generally occurring plant metabolites such as β -sitosterol, quercetin, isoquercitrin, chlorogenic acid, daucosterol, quercitrin are also most frequently found in this literature study.

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감사의 말씀

그 동안 저의 이 논문을 위하여 물심양면으로 도와 주시고 무사히 과정을 마치고 졸업할 수 있게 도와주신 제주대학교 화학과 여러 교수님들께 깊은 감사의 말씀을 드립니다.

특히 논문의 여러 미흡한 점을 세심하게 돌봐주시고 애써주신 이남호 지도교수님께서는 더없이 고맙고 감사한 마음을 간직하겠습니다.

그 외로 제가 제주대학교 화학과에 교육대학원과정으로 다니면서 도움을 주신 대학원생 등 여러분께도 감사의 말씀을 드립니다.