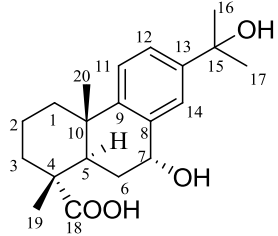
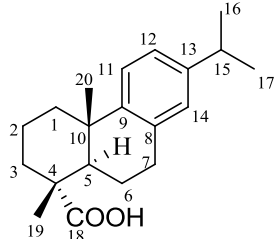
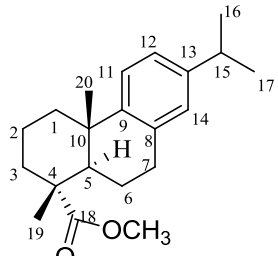
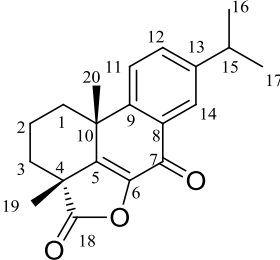
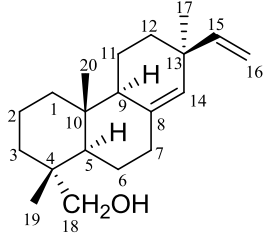
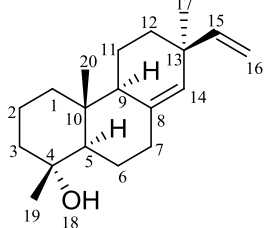
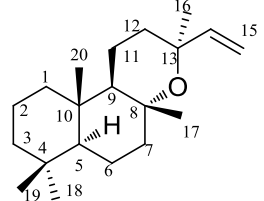
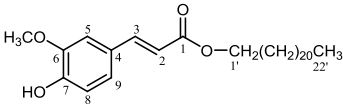


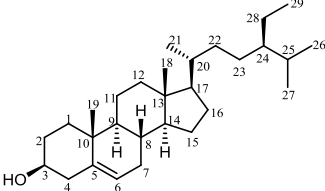
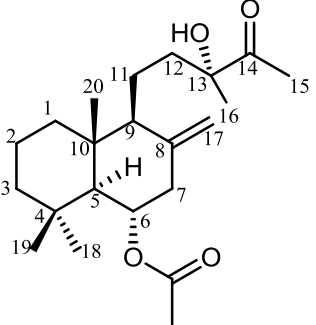
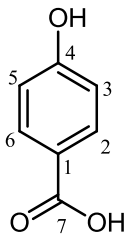
1 Supplementary Material S3 Structures, sources and references of compounds isolated.

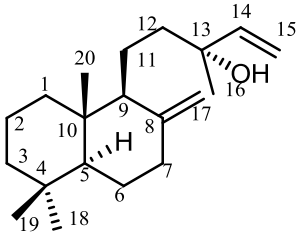
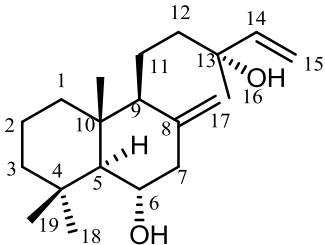
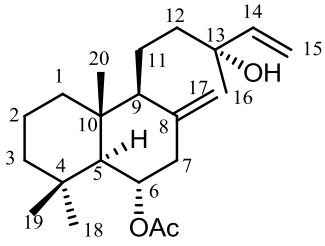
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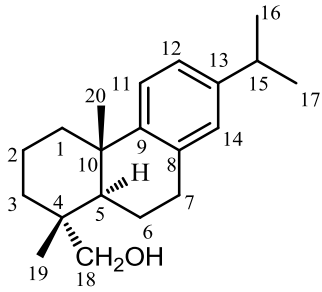
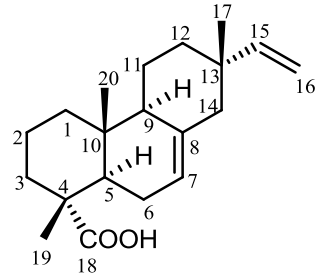
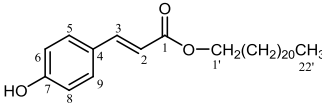
Compound	Compound	Structure	References
1	15-Hydroxydehydroabietic acid (<i>P. sylvestris</i> , <i>L. gmelinii</i>)		Cheung HTA, Miyase T, Lenguyen MP, Smal MA, Further acidic constituents and neutral components of <i>Pinus massoniana</i> resin. <i>Tetrahedron</i> 49 : 7903-7915 (1998). Norin T, Winell B, Extractives from the bark of common spruce, <i>Picea abies</i> L. Karst. <i>Acta Chemica Scandinavica</i> 26 :2289-2296 (1972).
2	7-Oxo-15-hydroxydehydroabietic acid (<i>P. sylvestris</i> , <i>L. decidua</i>)		Matsumoto T, Imai S, Sunaoka Y, Yoshinari T, The conversion of (+)-dehydroabietic acid into steroidal hormones. <i>Bulletin of the Chemical Society of Japan</i> 61 :723-727 (1988). Ayer WA, Macaulay JB, Metabolites of the honey mushroom, <i>Armillaria mellea</i> . <i>Canadian Journal of Chemistry</i> 65 :7-13 (1987).
3	7β,15-Dihydroxydehydroabietic acid (<i>P. sylvestris</i> , <i>L. sibirica</i>)		Miguel del Corral JM, Gordaliza M, Salinero MA, San Feliciano A, ¹³ C NMR data for Abieta-8,11,13-triene diterpenoids. <i>Magnetic Resonance in Chemistry</i> 32 :774-781 (1994). Pereda-Miranda R, Delgado G, Romo de Vivar A, An abietane diterpenoid from <i>Salvia sapinae</i> . <i>Phytochemistry</i> 25 :1931-1933 (1986).

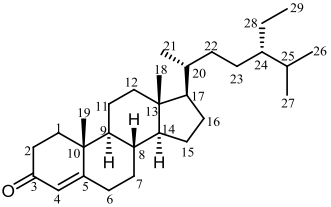
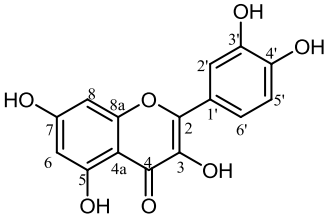
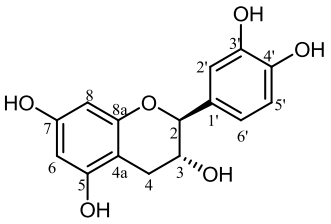
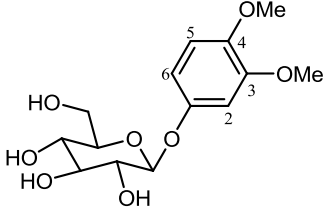
4	7 α ,15-Dihydroxydehydroabietic acid (<i>P. sylvestris</i>)		<p>Miguel del Corral JM, Gordaliza M, Salinero MA, San Feliciano A, ¹³C NMR data for Abieta-8,11,13-triene diterpenoids. <i>Magnetic Resonance in Chemistry</i> 32:774-781 (1994).</p> <p>Pereda-Miranda R, Delgado G, Romo de Vivar A, An abietane diterpenoid from <i>Salvia sapinae</i>. <i>Phytochemistry</i> 25:1931-1933 (1986).</p> <p>Nawrot DA, <i>The Phytochemistry of Eastern European Forest Species</i>, Ph.D thesis, University of Surrey (2012).</p>
5	Dehydroabietic acid (<i>P. abies</i> , <i>P. sylvestris</i> , <i>L. gmelinii</i> , <i>L. sibirica</i> , <i>L. decidua</i>)		<p>Sepulveda B, Astudillo L, Rodriguez JA, Yanez T, Theoduloz C, Schmeda-Hirschmann G, Gastroprotective and cytotoxic effect of dehydroabietic acid derivatives. <i>Pharmacological Research</i> 52:429-437 (2005).</p> <p>Jang HJ, Yang KS, Inhibition of nitric oxide production in RAW 264.7 macrophages by diterpenoids from <i>Phellinus pini</i>. <i>Archives of Pharmacol Research</i> 34:913-917 (2011).</p>
6	Dehydroabietic acid methyl ester (<i>P. sylvestris</i> , <i>L. decidua</i>)		<p>Ohmoto T, Kanatani K, Yamaguchi K, Constituents of Pollen. XIII Constituents of <i>Cedrus deodara</i> LOUD. <i>Chemical and Pharmaceutical Bulletin</i> 35:229-234 (1987).</p> <p>Chamy MC, Piovano M, Gambaro V, Garbarino JA, Nicoletti M, Dehydroabietanes diterpenoids from <i>Calceolaria ascendens</i>. <i>Phytochemistry</i> 26:1763-1765 (1987).</p>

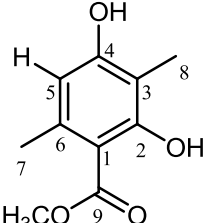
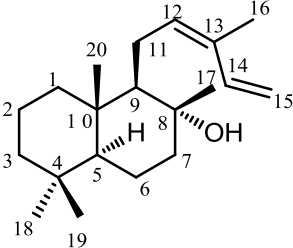
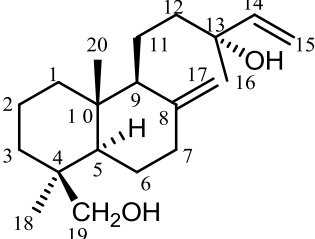
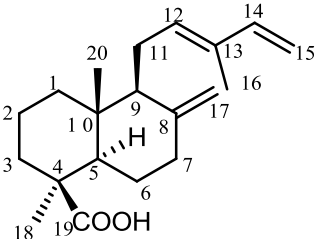
7	7-Oxo-5,8,11,13-abietatetraen-18,6-olide (<i>P. sylvestris</i>)		Kuo Y-H, Yeh M-H, Lin H-C, New abietane-type diterpenes from the heartwood of <i>Picea morrisonicola</i> . <i>Chemical and Pharmaceutical Bulletin</i> 52 :861-863 (2004).
8	8(14),15-Pimaradien-18-ol (<i>P. sylvestris</i>)		Caputo R, Mangoni L, Monaco P, Previtera L, New labdane diterpenes from <i>Araucaria cooki</i> . <i>Phytochemistry</i> 13 :471-474 (1974). Wenkert E, Buckwalter BL, Carbon-13 nuclear magnetic resonance spectroscopy of naturally occurring substances. X. Pimaradienes. <i>Journal of the American Chemical Society</i> 12 :4367-4369 (1972).
9	18-Nor-8(14),15-pimaradien-4 α -ol (<i>P. sylvestris</i>)		Rowe JW, Roland RC, Nagasampagi BA, Terpenoids of lodgepole Pine bark. <i>Phytochemistry</i> 11 :365-369 (1972).
10	8(<i>R</i>),13(<i>S</i>)-Epoxyabd-14-ene (<i>P. sylvestris</i>)		Zhou L, Fuentes ER, Hoffmann JJ, Timmermann B, Diterpenoids from <i>Grindelia tarapacana</i> . <i>Phytochemistry</i> 40 :1201-1207 (1995).
11	<i>n</i> -Eicosanoyl- <i>trans</i> -ferulate (<i>P. jezoensis</i> , <i>P. sylvestris</i> , <i>L. gmelinii</i> , <i>L. sibirica</i> , <i>L. decidua</i>)		Kuo YH, Chen WC, Chemical constituents of the Pericarp of <i>Platycladus orientalis</i> . <i>Journal of Chinese Chemical Society</i> 46 :819 – 825 (1999).

			Nawrot DA, <i>The Phytochemistry of Eastern European Forest Species</i> , Ph.D thesis, University of Surrey (2012).
12	<p>β-sitosterol (<i>P. jezoensis</i>, <i>A. nephrolepis</i>, <i>P. sylvestris</i>, <i>L. gmelinii</i>, <i>L. sibirica</i>, <i>L. decidua</i>)</p>		Kojima H, Satoa N, Hatanoa A, Ogura H, Sterol glucosides from <i>Prunella vulgaris</i> . <i>Phytochemistry</i> 29 :2351-2355 (1990).
13	<p>6α-Acetoxy-13(S)-hydroxy-8(17)-labden-14-one (<i>L. gmelinii</i>)</p>		(Not reported)
14	<p>p-Hydroxybenzoic acid (<i>L. gmelinii</i>)</p>		<p>Dhakal RC, Rajbhandari M, Kalauni SK, Awale S, Gewali MB, Phytochemical constituents of the bark of <i>Vitex negundo</i> L. <i>Journal of Nepal Chemical Society</i> 23:89-92 (2008).</p> <p>Chumbalov TK, Pashinina LT, Leiman ZA, Polyphenols of the bark of <i>Larix sibirica</i>. <i>Chemistry of Natural Compounds</i> 9:280-281 (1973).</p>

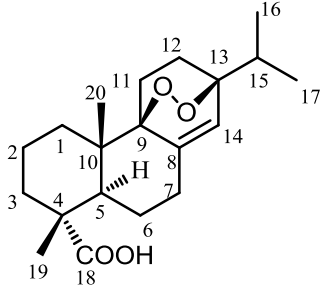
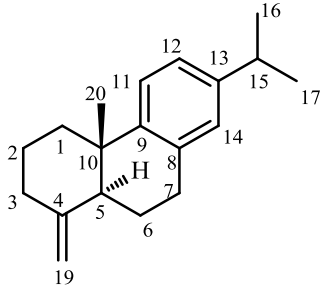
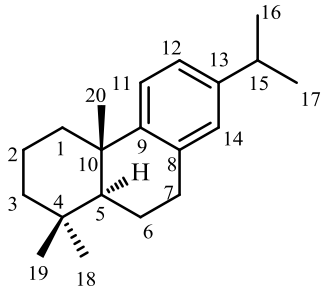
<p>15</p>	<p>8(17),14-Labdadien-13(S)-ol (<i>P. jezoensis</i>, <i>A. nephrolepis</i>, <i>L. gmelinii</i>, <i>L. sibirica</i>, <i>L. decidua</i>)</p>		<p>Jang HJ, Yang KS, Inhibition of nitric oxide production in RAW 264.7 macrophages by diterpenoids from <i>Phellinus pini</i>. <i>Archives of Pharmacal Research</i> 34:913-917 (2011).</p> <p>Shmidt ÉN, Pentegova VA, Chemical composition of the oleoresin of <i>Larix dahurica</i>. <i>Chemistry of Natural Products</i> 10:698-699 (1974).</p> <p>Su WC, Fang JM, Cheng YS, Labdanes from <i>Cryptomeria japonica</i>. <i>Phytochemistry</i> 37:1109-1114 (1994).</p>
<p>16</p>	<p>8(17),14-Labdadien-6α,13(S)-diol (Larixol) (<i>L. gmelinii</i>, <i>L. decidua</i>,)</p>		<p>Fang J-M, Wu S-K, Cheng Y-S, A study of the constituents of the bark of <i>Tsuga chinensis</i> Pritz. Var. <i>Formosana</i> (HAY). <i>Journal of the Chinese Chemical Society</i> 32:477-480 (1985).</p> <p>Choi K-P, Morganville NJ, McLean MP, Mattawan NJ, Buckley JL, Middletown, NJ, Dewis ML, Matawan NJ, Process for the manufacture of spiroketals US Patent US 7294492 B2 (2007).</p>
<p>17</p>	<p>6α-Acetoxy-8(17),14-labdadien-13(S)-ol (Larixyl acetate) (<i>L. gmelinii</i>, <i>L. decidua</i>)</p>		<p>Bolster MG, Ben JM, Jansen JM, Groot A, The synthesis of Ambrox - like compounds starting from (+)-larixol. <i>Tetrahedron</i> 57:5663-5679 (2001).</p> <p>Norin T, Ohloff G, Willhalm B, The structures and configuration of larixol and larixyl acetate. <i>Tetrahedron Letters</i> 6:3523-3528. (1965).</p>

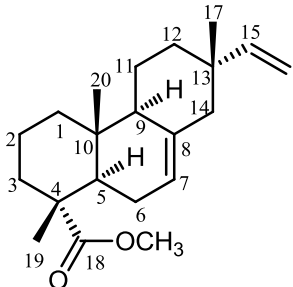
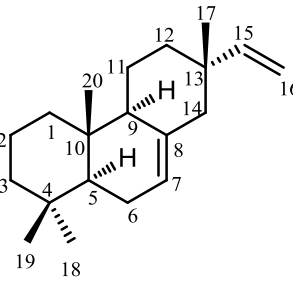
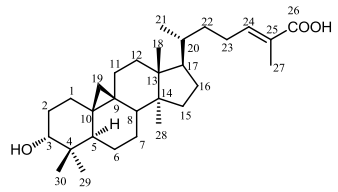
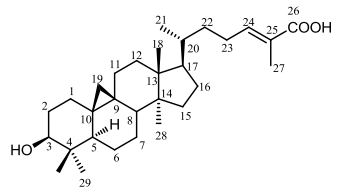
18	8,11,13-Abietatrien-18-ol (<i>L. gmelinii</i> , <i>L. sibirica</i>)		<p>Gonzalez MA, Perez-Guaita D, Correa-Royero J, Zapata B, Agudelo L, Mesa-Arango A, Betancur-Galvis L, Synthesis and biological evaluation of dehydroabietic acid derivatives. <i>European Journal of Medicinal Chemistry</i> 45:811-816. (2010).</p> <p>Fraga BM, Hernandez MG, Artega JM, Suarez S, The microbiological transformation of the diterpenes dehydroabietanol and teideadiol by <i>Mucor plumbeus</i>. <i>Phytochemistry</i> 63:663-668 (2003).</p>
19	7,15-Isopimaradien-18-oic acid (<i>L. gmelinii</i> , <i>L. sibirica</i> , <i>L. decidua</i>)		<p>Su W-C, Fang J-M, Cheng Y-S, Diterpenoids from leaves of <i>Cryptomeria japonica</i>. <i>Phytochemistry</i> 41:255-261 (1996).</p> <p>Li WH, Chang ST, Chang SC, Chang HT, Isolation of antibacterial diterpenoids from <i>Cryptomeria japonica</i> bark. <i>Natural Products Research</i> 22:1085-1093 (2008).</p> <p>Pan H, Lundgren LN, Phenolic extractives from root bark of <i>Picea abies</i>. <i>Phytochemistry</i> 39:1423-1428 (1995).</p> <p>Ryu YB, Jeong HJ, Kim JH, Kim YM, Park JY, Kim D, Nguyen TT, Park SJ, Chang JS, Park KH, Rho MC, Lee WS, Biflavonoids from <i>Torreya nucifera</i> displaying SARS-CoV 3CL(pro) inhibition. <i>Bioorganic and Medicinal Chemistry</i> 18:7940-7947 (2010).</p>
20	n-Erucicoyl-(<i>E</i>)-4-hydroxycinnamate (<i>P. jezoensis</i> , <i>L. gmelinii</i>)		<p>Juma BF, Yenese A, Midiwo JO, Waterman PG, Flavones and phenylpropanoids in the surface exudate of <i>Psiadia punctulata</i>. <i>Phytochemistry</i> 57:571-574 (2001).</p>

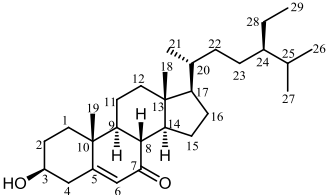
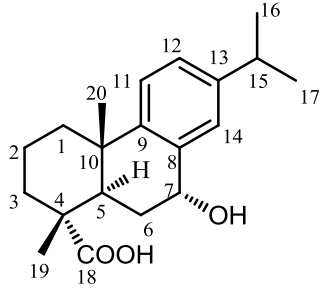
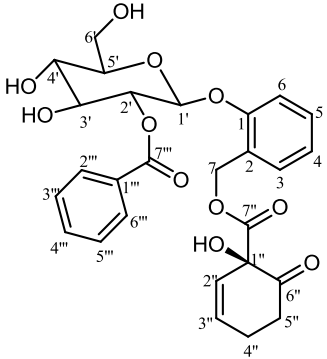
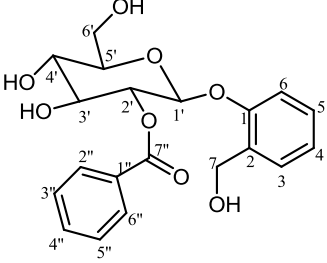
			Nawrot DA, <i>The Phytochemistry of Eastern European Forest Species</i> , Ph.D thesis, University of Surrey (2012).
21	Stigmast-4-en-3-one (<i>L. gmelinii</i> , <i>P. tremula</i>)		Barla A, Birman H, Kultur S, Oksuz S, Secondary metabolites from <i>Euphorbia helioscopia</i> and their vasodepressor activity. <i>Turkish Journal of Chemistry</i> 30 :325-332 (2006).
22	3,3',4',5,7-Pentahydroxyflavone (<i>L. gmelinii</i>)		Guvenalp Z, Demirezer LO, Flavonol glycosides from <i>Asperula arvensis</i> L., <i>Turkish Journal of Chemistry</i> 29 :163-169 (2005). Tyukavkina NA, Lapteva KI, Larina VA, Devyatko NG, Extractive substances of <i>Larix dahurica</i> II. Quantitative contents of quercetin and dihydroquercetin. <i>Chemistry of Natural Compounds</i> 3 :252-254 (1967).
23	(-)-(2 <i>S</i> ,3 <i>R</i>)-3,3',4',5,7-Pentahydroxyflavan (<i>L. gmelinii</i>)		El-Razek MHA, NMR assignments of four catechin epimers. <i>Asia Journal of Chemistry</i> 19 :4867-4872 (2007). Shen Z, Haslam E, Falshaw CP, Begley M., Procyanidins and polyphenols of <i>Larix gmelinii</i> bark. <i>Phytochemistry</i> 25 :2629-2635 (1986).
24	3,4-Dimethoxyphenyl O-β-D-glucopyranoside (<i>L. gmelinii</i>)		Pan H, Lundgren LN, Phenolic extractives from root bark of <i>Picea abies</i> . <i>Phytochemistry</i> 39 :1423-1428 (1995).

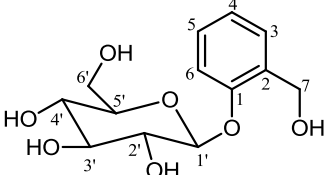
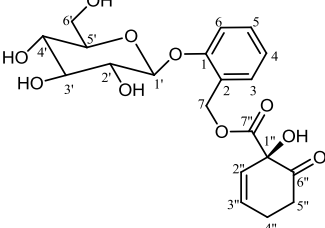
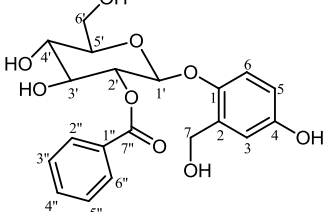
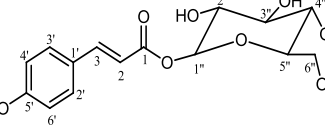
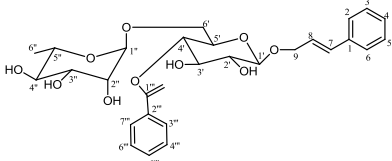
25	2,4-Dihydroxy-3,6-dimethylbenzoate (<i>L. sibirica</i>)		<p>Ahad AM, Goto Y, Kiuchi F, Tsuda Y, Kondo K, Sato T, Nematocidal principles in "oakmoss absolute" and nematocidal activity of 2,4-dihydroxybenzoates. <i>Chemical and Pharmaceutical Bulletin</i> 39:1043-1046 (1991).</p>
26	12(<i>Z</i>),14-Labdadien-8 α -ol (<i>L. sibirica</i>)		<p>Wahlberg I, Karlsson K, Nishida T, Cheng K-P, Enzell CR, Berg J-E, Pilotti A-M, Tobacco Chemistry part 40 Syntheses of (12<i>R</i>,13<i>R</i>)- and (12<i>S</i>,13<i>S</i>)-8,12-epoxy-14labden-13-ol and (13<i>R</i>)- and (13<i>S</i>)-8,13-epoxy-14-labden-12-one, four tobacco diterpenoids. <i>Acta Chemica Scandinavica B</i> 31:453-459 (1977).</p>
27	8(17),14-Labdadiene-13(<i>S</i>),19-diol (<i>L. sibirica</i>)		<p>Su WC, Fang JM, Cheng YS, Labdanes from <i>Cryptomeria japonica</i>. <i>Phytochemistry</i> 37:1109-1114 (1994). Manning TDR, Diterpene constituents of <i>Pinus contorta</i>. <i>Australian Journal of Chemistry</i> 26:2735-2739 (1973).</p>
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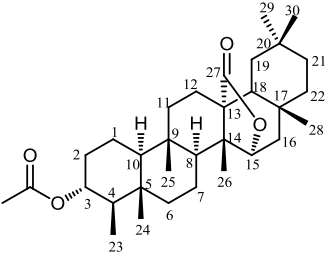
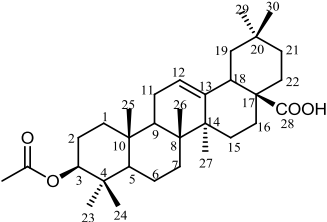
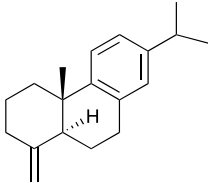
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29	(+)-4,4',9'-Trihydroxy-3,3'-dimethoxy-7',9-epoxylignan (Lariciresinol) (<i>L. sibirica</i> , <i>L. decidua</i>)		<p>Duh C-Y, Phoebe CH, Pezzuto JM, Kinghorn AD, Farnsworth N, Plant anticancer agents, XLII. Cytotoxic constituents from <i>Wikstroemia elliptica</i>. <i>Journal of Natural Products</i> 49:706-709 (1986).</p> <p>Li HX, Teruaki A, Kenjiro H, Takeshi, D, Masao H, Biotransformation of pinoresinol diglucoside to mammalian lignans by human intestinal microflora, and isolation of enterococcus faecalis Strain PDG-1 responsible for the transformation of (+)-pinoresinol to (+)-lariciresinol. <i>Chemical and Pharmaceutical Bulletin</i> 51:508-515 (2003).</p> <p>Xie LH, Akao T, Hsmasaki K, Deyama T, Hattori M, Biotrans -formation of pinoresinol diglucoside to mammalian lignans by human intestinal microflora, and isolation of <i>Enterococcus faecalis</i> Strain PDG-1 responsible for the transformation of (+)-pinoresinol to (+)-lariciresinol. <i>Chemical and Pharmaceutical Bulletin</i> 51:508-515 (2003).</p>
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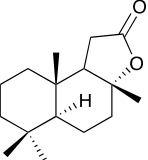
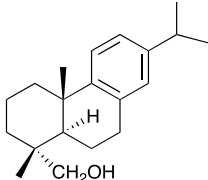
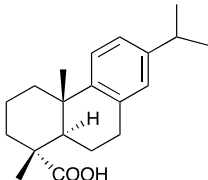
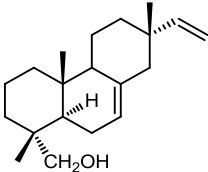
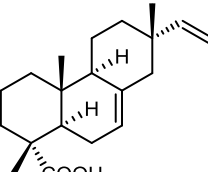
<p>32</p>	<p>9β,13β-Epidioxy-8(14)-abieten-18-oic acid (<i>L. decidua</i>)</p>		<p>Tanaka R, Ohtsu H, Matsunaga S, Abietane diterpene acids and other constituents from the leaves of <i>Larix kaempferi</i>. <i>Phytochemistry</i> 46:1051-1057 (1997).</p> <p>Barrero AF, Sanchez JF, Alvarez-Manzaneda EJ, Munoz Dorado M, Haidour A, Endoperoxide diterpenoids and other constituents from <i>Abies marocana</i>. <i>Phytochemistry</i> 30:593-597 (1991).</p> <p>Monaco P, Parrilli M, Previtera L, Two enoperoxide diterpenes from <i>Elodea canadensis</i>. <i>Tetrahedron Letters</i> 28:4609-4610 (1987).</p>
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<p>34</p>	<p>8,11,13-Abietatriene (<i>P. jezoensis</i>, <i>A. nephrolepis</i>, <i>L. decidua</i>)</p>		<p>Ribo JM, Mitja MR, Ramentol J, Diterpenoids in <i>Abies alba</i>. <i>Phytochemistry</i> 13:1614-1614 (1974).</p>

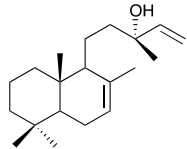
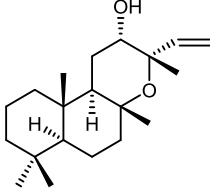
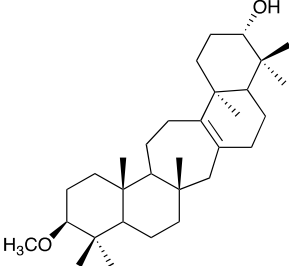
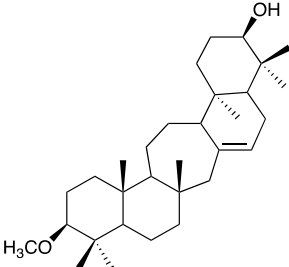
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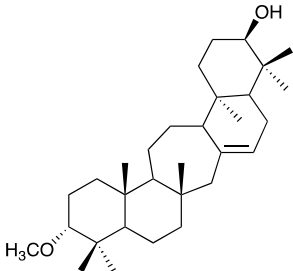
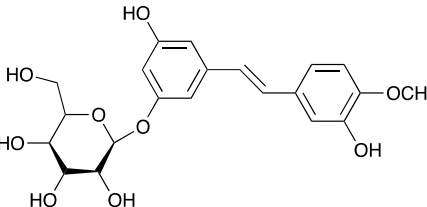
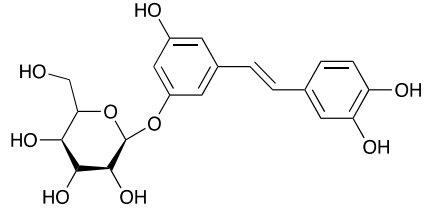
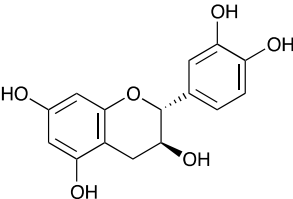
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