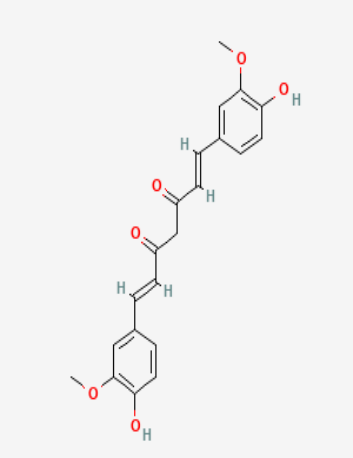
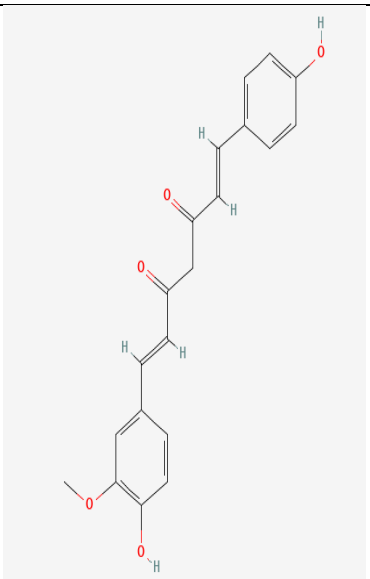
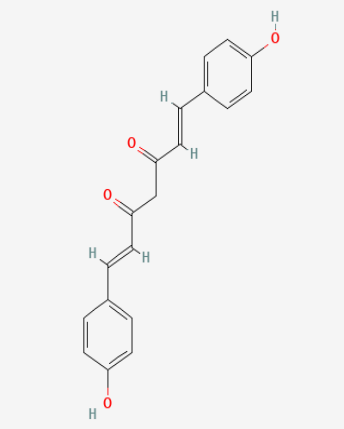
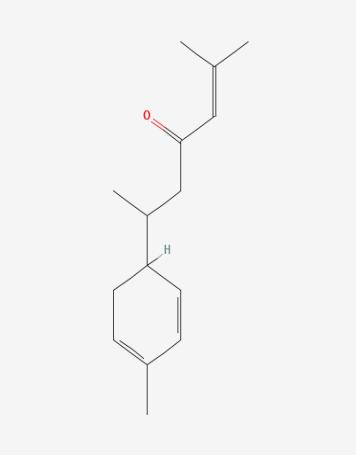
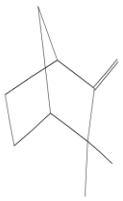
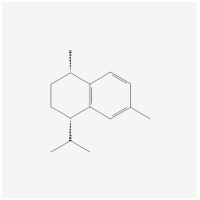
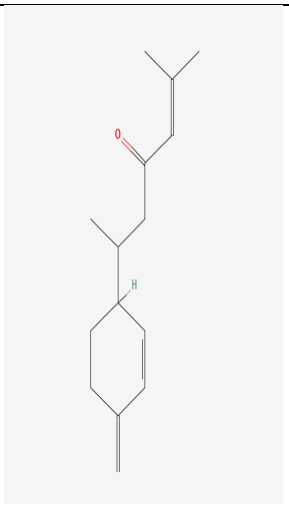
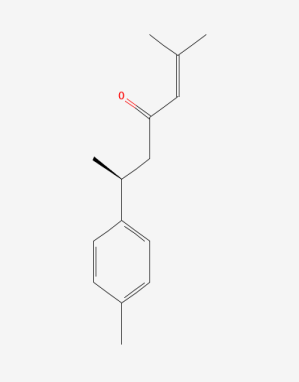
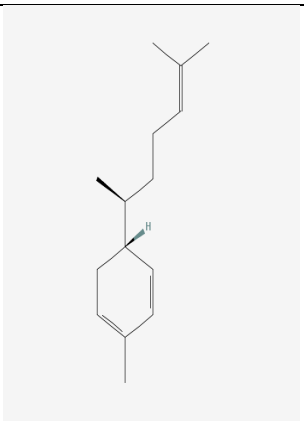
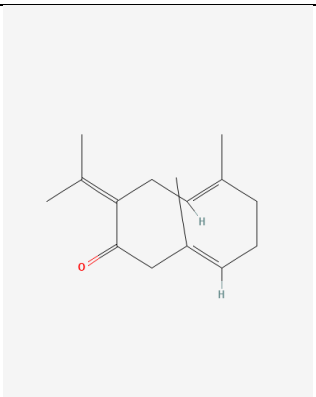
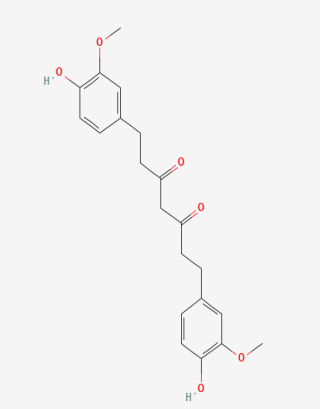
S/N	PHYTOCHEMICAL	STRUCTURE	PLANT PART	REFERENCES(SOURCES
1	**Curcumin**		Rhizome of Curcuma longa	Aggarwal, B. B., & Sung, B. (2009). Pharmacological basis for the role of curcumin in chronic diseases: an age-old spice with modern targets. *Trends in pharmacological sciences*, *30*(2), 85–94. https://doi.org/10.1016/j.tips.2008.11.002
2	**Demethoxycurcumin**		Rhizome	Hatamipour, M., Ramezani, M., Tabassi, S. A. S., Johnston, T. P., & Sahebkar, A. (2019). *Journal of cellular physiology*, *234*(11), 19320–19330. https://doi.org/10.1002/jcp.28626

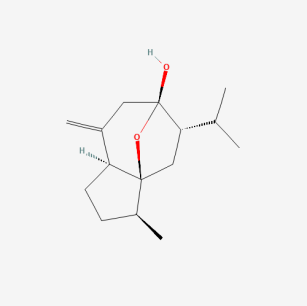
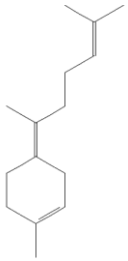
3	**Bisdemethoxy curcumin**		Rhizome of *curcuma longa*	Ramezani, M., Hatamipour, M., & Sahebkar, A. (2018). Promising anti-tumor properties of bisdemethoxy curcumin: A naturally occurring curcumin analogue. *Journal of cellular physiology*, *233*(2), 880–887. https://doi.org/10.1002/jcp.25795
4	**α-Turmerone**		Rhizome of *curcuma longa*	Shahrajabian, M. H., & Sun, W. (2024). The Golden Spice for Life: Turmeric with the Pharmacological Benefits of Curcuminoids. *21*(5), 665–683. https://doi.org/10.2174/1570179420666230607124949

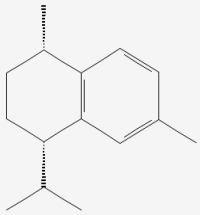
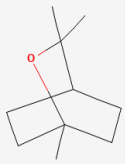
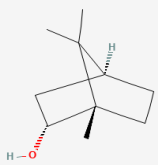
5	**Camphene**		Essential oil of turmeric plant	D'Auria, M., & Racioppi, R. (2019). Solid phase microextraction and gas chromatography mass spectrometry analysis of *Zingiber officinale* and *Curcuma longa*. *Natural product research*, *33*(14), 2125–2127. https://doi.org/10.1080/14  786419.2018.1488702
6	**β- Turmerone**		Rhizome of turmeric plant	Poudel, D. K., Ojha, P. K., Rokaya, A., Satyal, R., Satyal, P., & Setzer, W. N. (2022). Analysis of Volatile Constituents in *Curcuma* Species. https://doi.org/10.3390/plants11151932

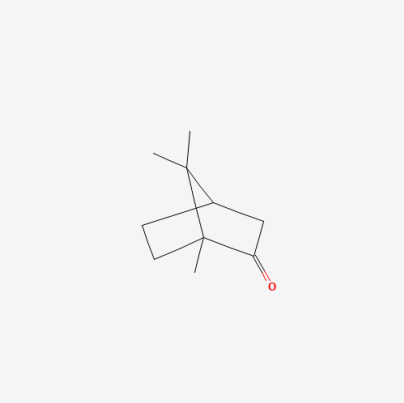
7	**Ar-Turmerone**		Rhizome	Cao, W., Chen, X., Xiao, C., Lin, D., Li, Y., Luo, S., Zeng, Z., Sun, B., & Lei, S. (2023). Ar-turmerone inhibits the proliferation and mobility of glioma by downregulating cathepsin B. *Aging*, *15*(18), 9377–9390. https://doi.org/10.18632/aging.204940
8	**Zingiberene**		Rhizome	Seshadri, V. D., Oyouni, A. A. A., Bawazir, W. M., Alsagaby, S. A., Alsharif, K. F., Albrakati, A., & Al-Amer, O. M. (2022). Zingiberene exerts chemopreventive activity against 7,12-dimethylbenz(a)anthracene-induced breast cancer in Sprague-Dawley rats. *Journal of biochemical and molecular toxicology*, *36*(10), e23146.

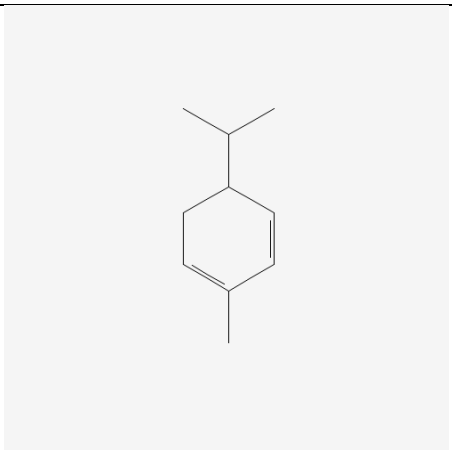
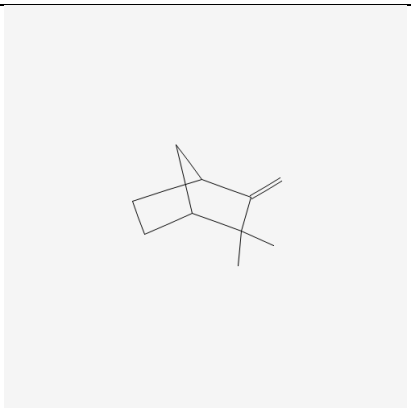
				https://doi.org/10.1002/jbt.23146
9	**Germacrone**		Rhizome	Riaz, A., Rasul, A., Kanwal, N., Hussain, G., Shah, M. A., Sarfraz, I., Ishfaq, R., Batool, R., Rukhsar, F., & Adem, Ş. (2020). Germacrone: A Potent Secondary Metabolite with Therapeutic Potential in Metabolic Diseases, Cancer and Viral Infections. *21*(14), 1079–1090. https://doi.org/10.2174/1389200221999200728144801

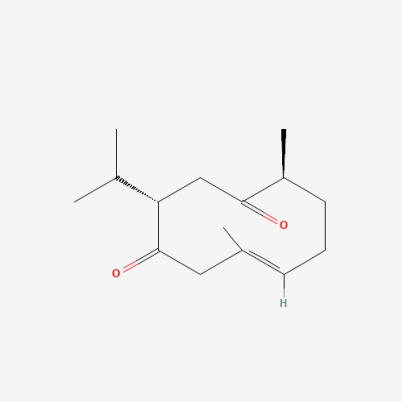
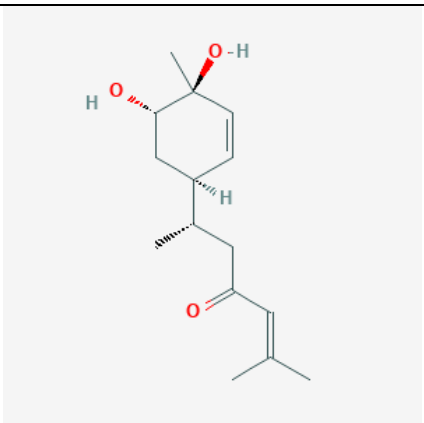
10	**Sabinene**		Essential oil of turmeric plant	Sharma, S., Gupta, J., Prabhakar, P. K., Gupta, P., Solanki, P., & Rajput, A. (2019). Phytochemical Repurposing of Natural Molecule: Sabinene for Identification of Novel Therapeutic Benefits Using *In Silico* and *In Vitro* Approaches. *Assay and drug development technologies*, *17*(8), 339–351. https://doi.org/10.1089/adt.2019.939
11	**Tetrahydrocurcumin**		Curcuma longa	Lai, C. S., Ho, C. T., & Pan, M. H. (2020). The Cancer Chemopreventive and Therapeutic Potential of Tetrahydrocurcumin. *Biomolecules*, *10*(6), 831. https://doi.org/10.3390/biom10060831

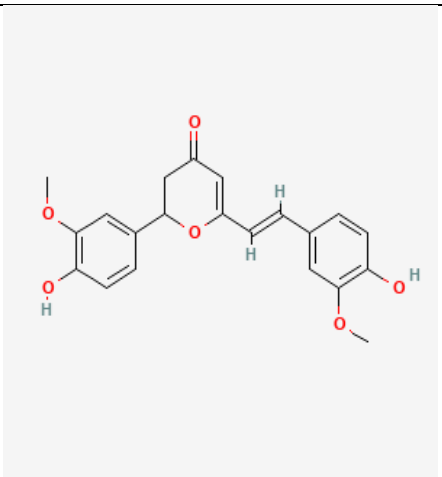
12	**Curcumol**		Rhizome(roots)	Wei, W., Rasul, A., Sadiqa, A., Sarfraz, I., Hussain, G., Nageen, B., Liu, X., Watanabe, N., Selamoglu, Z., Ali, M., Li, X., & Li, J. (2019). Curcumol: From Plant Roots to Cancer Roots. *International journal of biological sciences*, *15*(8), 1600–1609. https://doi.org/10.7150/ijbs.34716
13	**Bisabolene**		Curcuma longa	Orellana-Paucar, A. M., Serruys, A. S., Afrikanova, T., Maes, J., De Borggraeve, (2012). Anticonvulsant activity of bisabolene sesquiterpenoids of Curcuma longa in zebrafish and mouse seizure models. *Epilepsy & behavior : E&B*, *24*(1), 14–22. https://doi.org

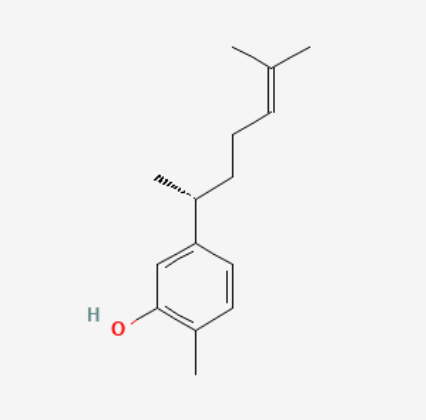
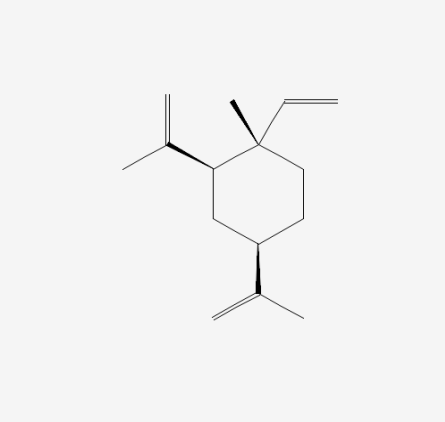
				/10.1016/j.yebeh.2012.02.020
14	**Calamenene**		Curcuma longa	Tanaka et a l., 2010, pyhtochemistry
15	**Eucalyptol**		Essential oil of curcuma longa	Rui, Y., Han, X., Jiang, A., Hu, J., Li, M., Liu, B., Qian, F., & Huang, L. (2022). Eucalyptol prevents bleomycin-induced pulmonary fibrosis and M2 macrophage polarization. *European journal of pharmacology*, *931*, 175184. https://doi.org/.1016/j.ejphar.2022.175184
16	**Borneol**		Essential oil	Chen, J., Li, L., Su, J., & Chen, T. (2015). Natural borneol enhances bisdemethoxy curcumin-induced cell cycle arrest in

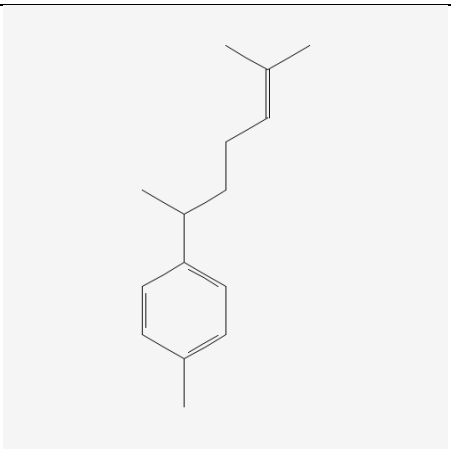
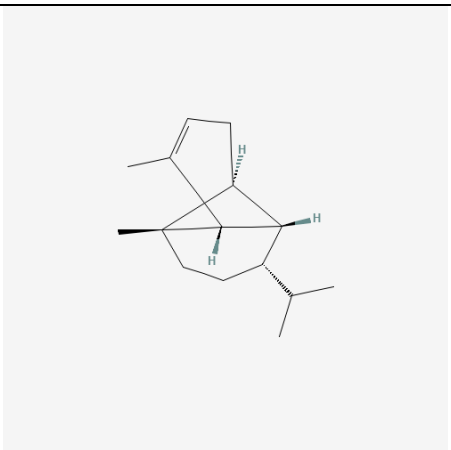
				the G2/M phase through up-regulation of intracellular ROS in HepG2 cells. *Food & function*, *6*(3), 740–748. https://doi.org/10.1039/c4fo00807c
17	**Camphor**		Plant metabolite(essential oil)	Akram, M., Riaz, M., Noreen, S., Shariati, M. A., Shaheen, G., Akhter, N., Parveen, F., Akhtar, N., Zafar, S., Owais Ghauri, A., Riaz, Z., Khan, F. S., Kausar, S., & Zainab, R. (2020). Therapeutic potential of medicinal plants for the management of scabies. *33*(1), e13186. https://doi.org/10.1111/dth.13186

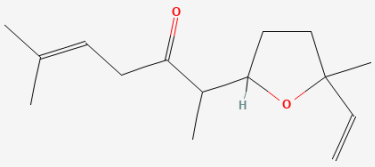
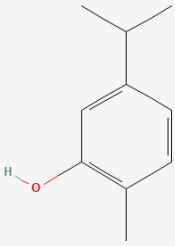
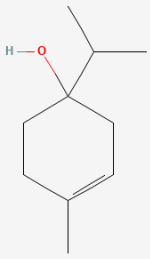
18	**α-Phellandrene**		Essential oil	Radice, M., Durofil, A., Buzzi, R., Baldini, E., Martínez, A. P., Scalvenzi, L., & Manfredini, S. (2022). Alpha-Phellandrene and Alpha-Phellandrene-Rich Essential Oils *(Basel, Switzerland)*, *12*(10), 1602. https://doi.org/10.3390/life12101602
19	**Camphene**		Essential oil of curcuma longa	D'Auria, M., & Racioppi, R. (2019). Solid phase microextraction and gas chromatography mass spectrometry analysis of *Zingiber officinale* and *Curcuma longa*. *Natural product research*, *33*(14), 2125–2127. https://doi.org/10.1080/14786419.2018.1488702

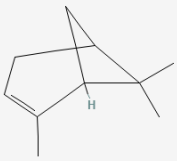
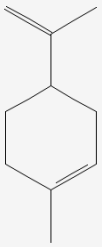
20	**Curdione**		Rhizome of curcuma longa	Hou, X. L., Hayashi-Nakamura, E., Takatani-Nakase, T., Tanaka, K., Takahashi, K., Komatsu, K., & Takahashi, K. (2011). Curdione Plays an Important Role in the Inhibitory Effect of Curcuma aromatica on CYP3A4 in Caco-2 Cells. *Evidence-based complementary and alternative medicine : eCAM*, *2011*, 913898. https://doi.org/10.1093/ecam/nep229
21	**Bisacurone**		Rhizome	He, C., Miyazawa, T., Abe, C., Ueno, T., Suzuki, M., Mizukami, M., Kurihara, K., & Toda, M. (2023). Hypolipidemic and Anti-Inflammatory Effects of *Curcuma*

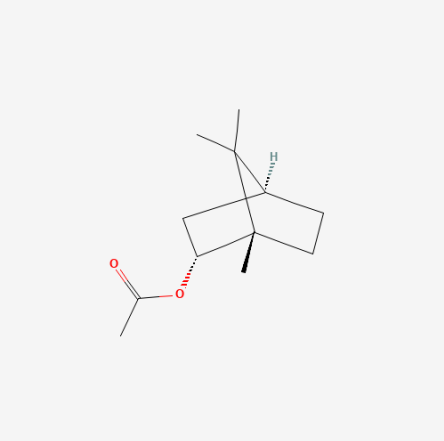
				longa-Derived Bisacurone in High-Fat Diet-Fed Mice. *International journal of molecular sciences*, *24*(11), 9366. https://doi.org/10.3390/ijms24119366
23	**Cyclocurcumin**		Rhizome	Kim, K., Kim, J. J., Jung, Y., Noh, J. Y., Syed, A. S., Kim, C. Y., Lee, M. Y., Lim, K. M., Bae, O. N., & Chung, J. H. (2017). Cyclocurcumin, an Antivasoconstrictive Constituent of Curcuma longa (Turmeric). *Journal of natural products*, *80*(1), 196–200. https://doi.org/10.1021/acs.jnatprod.6b00331

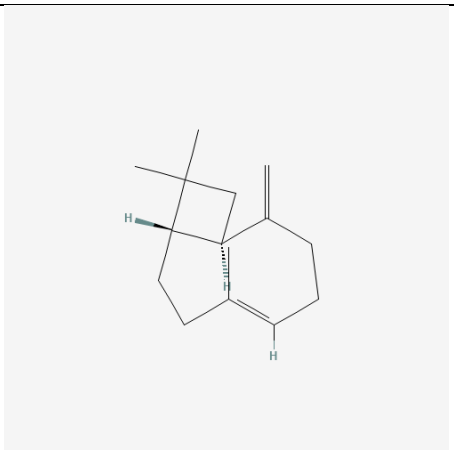
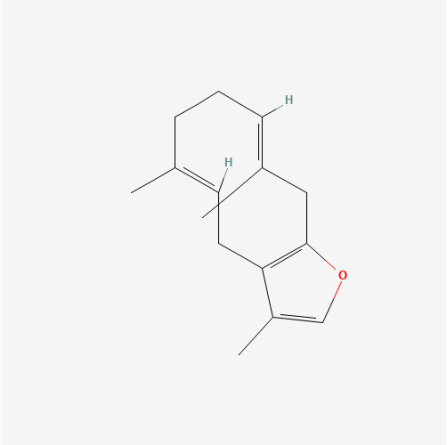
22	**Xanthorrhizoi**		Rhizome of turmeric plant	Simamora, A., Timotius, K. H., Yerer, M. B., Setiawan, H., & Mun'im, A. (2022). Xanthorrhizol, a potential anticancer agent, from Curcuma xanthorrhiza Roxb. *Phytomedicine : international journal of phytotherapy and phytopharmacology*, *105*, 154359. https://doi.org/10.1016/j.phymed.2022.154359
24	**Elemene**		Rhizome of turmeric plant	Zhang, P., Liu, H., Yu, Y., Peng, S., & Zhu, S. (2024). Role of Curcuma longae Rhizoma in medical applications: research challenges and opportunities. *Frontiers in pharmacology*, *15*, 1430284. https://doi.org

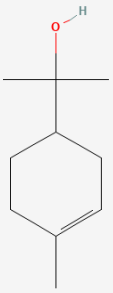
				/10.3389/fphar.2024.1430284
25	**α-Curcumene**		Rhizome	Shin, Y., & Lee, Y. (2013). Cytotoxic Activity from Curcuma zedoaria Through Mitochondrial Activation on Ovarian Cancer Cells. *Toxicological research*, *29*(4), 257–261. https://doi.org/10.5487/TR.2013.29.4.257
26	**α-copaene**		Rhizome of curcuma longa	Dosoky, N. S., Satyal, P., & Setzer, W. N. (2019). Variations in the Volatile Compositions of *Curcuma* Species. *Foods (Basel, Switzerland)*, *8*(2), 53. https://doi.org/10.3390/foods8020053

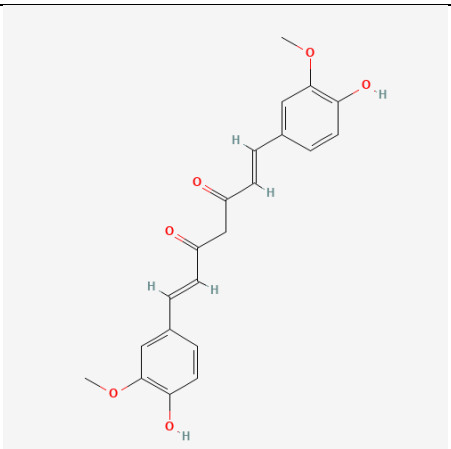
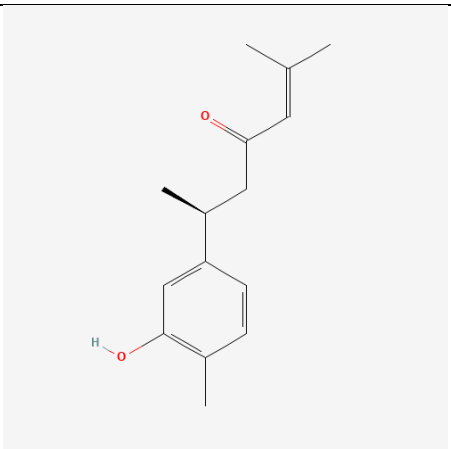
27	**Davanone**		Rhizome	Xiao, Y., Deng, T., & Wang, D. (2020). *journal of the Balkan Union of Oncology*, *25*(3), 1607–1613.
28	**Carvacrol**		Essential oil of turmeric plant	Singh, J., Luqman, S., & Meena, A. (2023). Carvacrol as a Prospective Regulator of Cancer Targets/Signalling Pathways. *Current molecular pharmacology*, *16*(5), 542–558. https://doi.org/10.2174/1874467215666220705142954
29	**Terpinene-4-ol**		Essential oil of curcuma longa	Cao, Z., Wang, L., Huang, D., Wu, G., Li, X., Yue, Y., Yu, Y., Yu, R., & Fan, Y. (2024). Identification and functional analysis of floral terpene synthase genes in Curcuma alismatifolia.

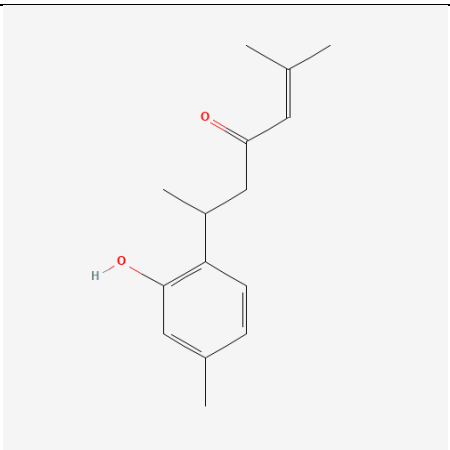
				Planta, *260*(1), 26. https://doi.org/10.1007/s00425-024-04440-z
30	**α-Pinene**		Essential oil of curcuma longa	Parveen, Z., Nawaz, S., Siddique, S., & Shahzad, K. (2013). Composition and Antimicrobial Activity of the Essential Oil from Leaves of Curcuma longa L. Kasur Variety. *Indian journal of pharmaceutical sciences*, *75*(1), 117–122. https://doi.org/10.4103/0250-474X.113544
31	**Limonene**		Plant metabolite	da Silva, C. E. H., Gosmann, G., & de Andrade, S. F. (2021). Limonene and Perillyl Alcohol Derivatives: Synthesis and Anticancer Activity. *Mini reviews in medicinal chemistry*, *21*(14), 1813–

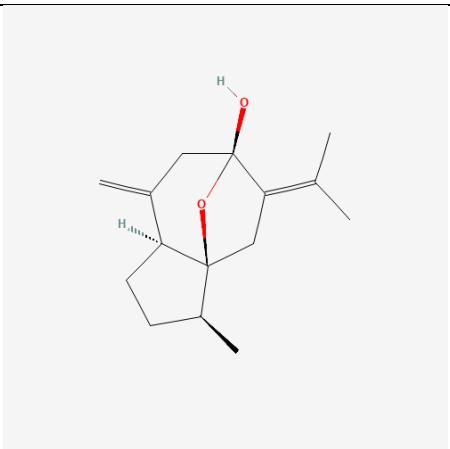
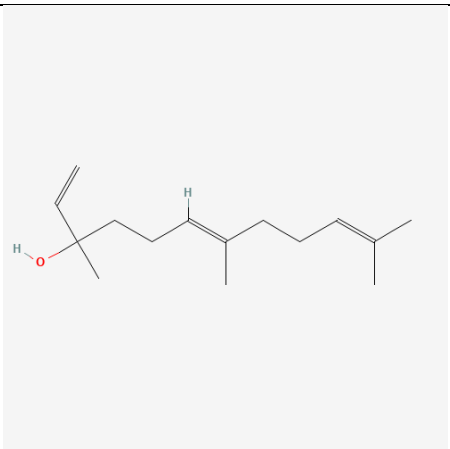
				1829. https://doi.org/10.2174/1389557521666210212150504
32	**Bornyl acetate**		Essential oil	Ibrahim, N. N. A., Wan Mustapha, W. A., Sofian-Seng, N. S., Lim, S. J., Mohd Razali, N. S., Teh, A. H., Rahman, H. A., & Mediani, A. (2023). A Comprehensive Review with Future Prospects on the Medicinal Properties and Biological Activities of *Curcuma caesia* Roxb. *Evidence-based complementary and alternative medicine : eCAM*, *2023*, 7006565. https://doi.org/10.1155/2023/7006565

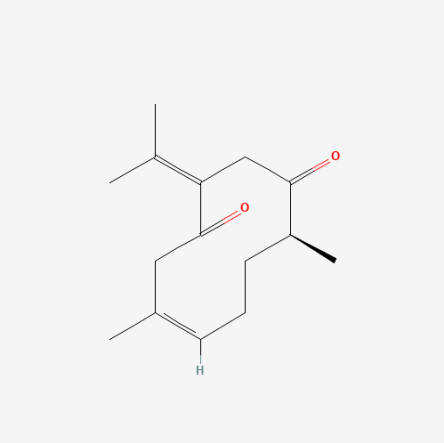
33	**Caryophyllene**		plant metabolite seen in essential oil	Santos, P. S., Oliveira, T. C., R Júnior, L. M., Figueiras, A., & Nunes, L. C. C. (2018). β-caryophyllene Delivery Systems: Enhancing the Oral Pharmacokinetic and Stability. *Current pharmaceutical design*, *24*(29), 3440–3453. https://doi.org/10.2174/1381612824666180912151412
34	**Furanodiene**		*Curcuma longa*	Batool, R., Rasul, A., Hussain, G., Shah, M. A., Nageen, B., Sarfraz, I., Zahoor, M. K., Riaz, A., Ajaz, A., & Adem, Ş. (2021). Furanodiene: A Novel, Potent, and Multitarget Cancer-fighting Terpenoid. *Current pharmaceutical design*,

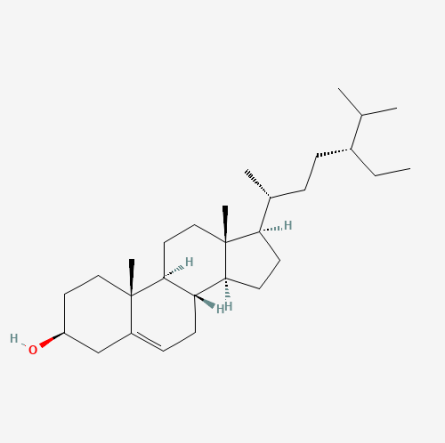
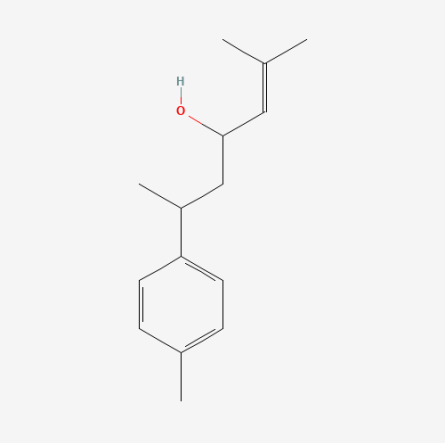
				27(22), 2628–2634. https://doi.org/10.2174/1381612827666210211125304
35	**α-Terpineol**		Essential oil in Turmeric plant	Negreiros, H. A., de Moura, K. G., Barreto do Nascimento, M. L. L., do Nascimento Rodrigues, D. C., Ferreir, P. M. P., Braz, D. C., de Farias, M. G., de Sousa Corrêia, L., Pereira, A. R. S., Santos, L. K. B., Gonçalves, J. C. R., Mendes, A. N., Carneiro da Silva, F. C., Cavalcant, A. A. C. M., & de Castro E Sousa, J. M. (2021). Alpha-Terpineol as Antitumor Candidate in Pre-Clinical Studies. *Anti-cancer agents in medicinal chemistry*, *21*(15), 2023–2031. https://doi.org/10.2174/1871

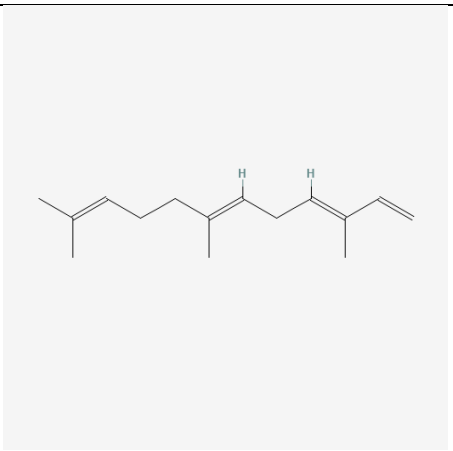
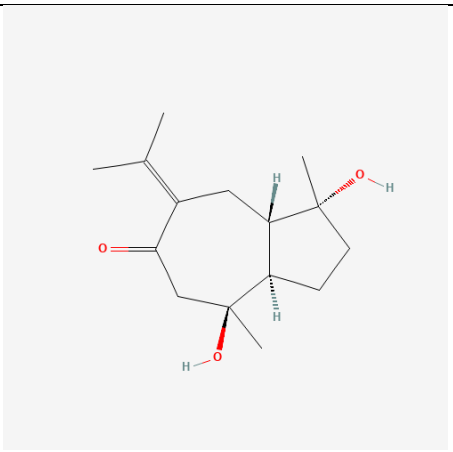
				520621999210104195820
36	**Turmerin**		Rhizome(roots) of curcuma longa	Lekshmi, P. C., Arimboor, R., Raghu, K. G., & Menon, A. N. (2012). Turmerin, the antioxidant protein from turmeric (Curcuma longa) exhibits antihyperglycaemic effects. *Natural product research*, *26*(17), 1654–1658. https://doi.org/10.1080/14786419.2011.589386
37	**Turmeronol A**		Plant metabolite	Saji, R., Uchio, R., Fuwa, A., Okuda-Hanafusa, C., Kawasaki, K., Muroyama, K., Murosaki, S., Yamamoto, Y., & Hirose, Y. (2023). Turmeronols (A and B) from *Curcuma longa* have anti-inflammatory effects in lipopolysaccharide-

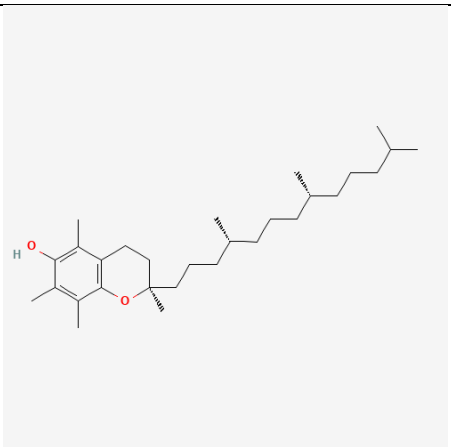
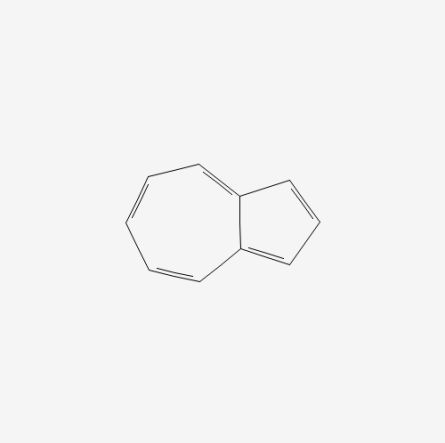
				stimulated BV-2 microglial cells by reducing NF-κB signaling. *Bioscience of microbiota, food and health*, *42*(3), 172–179. https://doi.org/10.12938/bmfh.2022-071
39	**Turmeronol B**		Turmeric plant	Saji, R., Uchio, R., Fuwa, A., Okuda-Hanafusa, C., Kawasaki, K., Muroyama, K., Murosaki, S., Yamamoto, Y., & Hirose, Y. (2023). Turmeronols (A and B) from *Curcuma longa* have anti-inflammatory effects in lipopolysaccharide-stimulated BV-2 microglial cells by reducing NF-κB signaling. *Bioscience of microbiota, food and health*, *42*(3), 172–179. https://doi.org

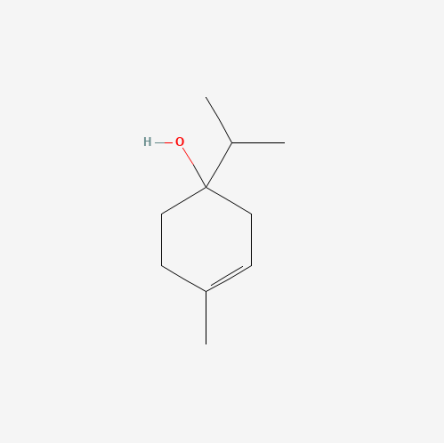
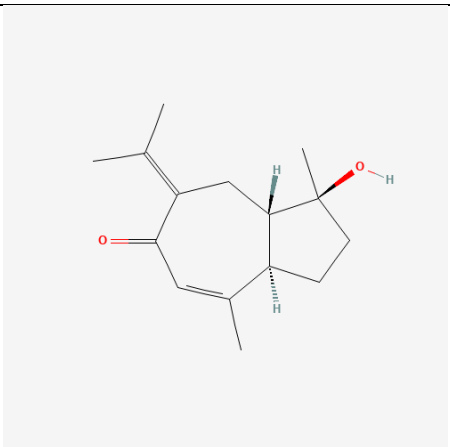
				/10.12938/bmfh.2022-071
40	**Isocurcumenol**		Plant metabolite	Lakshmi, S., Padmaja, G., & Remani, P. (2011). Antitumour Effects of Isocurcumenol Isolated from Curcuma zedoaria Rhizomes on Human and Murine Cancer Cells. *International journal of medicinal chemistry*, *2011*, 253962. https://doi.org/10.1155/2011/253962
41	**Nerolidol**		Plant metabolite	De Carvalho, R. B. F., De Almeida, A. A. C., Campelo, N. B., Lellis, D. R. O. D., & Nunes, L. C. C. (2018). Nerolidol and its Pharmacological Application in Treating Neurodegenerative Diseases: A Review. *Recent patents on biotechnology*,

				12(3), 158–168. https://doi.org/10.2174/1872208312666171206123805
42	**Dehydrocurdione**		Rhizome	Ohnishi, M., Urasaki, T., Egusa, K., Kunobu, C., Harada, T., Shinkado, R., Nishi, H., Maehara, S., Kitamura, C., Hata, T., Ohashi, K., Shibuya, H., & Inoue, A. (2018). Curcuma sp.-derived dehydrocurdione induces heme oxygenase-1 through a Michael reaction between its α, β-unsaturated carbonyl and Keap1. *Phytotherapy research : PTR*, *32*(5), 892–897. https://doi.org/10.1002/ptr.6028

44	**β-Sitosterol**		Rhizome	Babu, S., & Jayaraman, S. (2020). An update on β-sitosterol: A potential herbal nutraceutical for diabetic management. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, *131*, 110702. https://doi.org/10.1016/j.biopha.2020.110702
43	**Bisacumol**		Turmeric plant	Zhang, H., Jiang, H., Zhao, M., Xu, Y., Liang, J., Ye, Y., & Chen, H. (2022). Treatment of Gout with TCM Using Turmeric and Corn Silk: A Concise Review Article and Pharmacology Network Analysis. *Evidence-based complementary and alternative*

				medicine : eCAM, *2022*, 3143733. https://doi.org/10.1155/2022/3143733
45	Farnesene		Rhizome	George, K. W., Alonso-Gutierrez, J., Keasling, J. D., & Lee, T. S. (2015). Isoprenoid drugs, biofuels, and chemicals--artemisinin, farnesene, and beyond. *Advances in biochemical engineering/biotechnology*, *148*, 355–389. https://doi.org/10.1007/10_2014_288
46	**Zedoarondiol**		Plant metabolite	Chai, H., Qu, H., He, S., Song, L., Yang, Y., Huang, H., & Shi, D. (2022). Zedoarondiol inhibits atherosclerosis by regulating monocyte migration and adhesion via CXCL12/CXCR4 pathway. *Pharmacologic*

				al research, *182*, 106328. https://doi.org/10.1016/j.phrs.2022.106328
47	**α-Tocopherol**		Root	Engin K. N. (2009). Alpha-tocopherol: looking beyond an antioxidant. *Molecular vision*, *15*, 855–860.
48	**Azulene**		Rhizome	Slon, E., Slon, B., & Kowalczuk, D. (2024). Azulene and Its Derivatives as Potential Compounds in the Therapy of Dermatological and Anticancer Diseases: New Perspectives against the Backdrop of Current Research. *Molecules (Basel, Switzerland)*, *29*(9), 2020. https://doi.org/10.3390/molecules29092020

49	**Terpinen-4-ol**		Rhizome	Cordeiro, L., Figueiredo, P., Souza, H., Sousa, A., Andrade-Júnior, F., Medeiros, D., Nóbrega, J., Silva, D., Martins, E., Barbosa-Filho, J., & Lima, E. (2020). Terpinen-4-ol as an Antibacterial and Antibiofilm Agent against *Staphylococcus aureus*. *International journal of molecular sciences*, *21*(12), 4531. https://doi.org/10.3390/ijms21124531
50	**Procurcumenol**		Rhizome	Chen, J. J., Tsai, T. H., Liao, H. R., Chen, L. C., Kuo, Y. H., Sung, P. J., Chen, C. L., & Wei, C. S. (2016). New Sesquiterpenoids and Anti-Platelet Aggregation Constituents from the

				Rhizomes of Curcuma zedoaria. *Molecules (Basel, Switzerland)*, *21*(10), 1385. https://doi.org/10.3390/molecules21101385