

https://dspace.org/

The composition, geographical variation and antimicrobial activity of Mentha longifolia subspecies polyadena (Lamiaceae) leaf essential oils

Petkar, Sahir Yusuf

2008-09-26T08:54:38Z
http://hdl.handle.net/10539/5693

Downloaded from a DSpace repository. https://dspace.org/

References

Batten, A., Bokelmann, A. 1966. Wild Flowers of the Eastern Cape. Books of Africa, Cape Town.

Bourweig, D., Pohl, R. 1973. Flavonoids from *Mentha longifolia*. Planta Medica, 24, 304–314.

Brun, N., Colson, M., Perrin, A., Voirin, B. 1990. Chemical and morphological studies on the effect of aging on monoterpene composition in *Mentha x piperita* leaves. Canadian Journal of Botany, 69, 2271–2278.

Bruneton, J. 1995. Pharmacognosy, Phytochemistry, Medicinal Plants. Intercept, Hemisphere.

Buchbauer, G., Jirovetz, L. 1994. Aromatherapy – use of fragrances and essential oils as medicaments. Flavour and Fragrance Journal, 9, 217–222.

Bui, T.B., Nikolaev, A.G. 1975. Comparison of *Mentha longifolia* essential oil. Chemical Abstract. CA 84 (4), 21975w.

Burbott, A.J., Loomis, W.D. 1967. Effects of light and temperature on the monoterpenes of peppermint. Plant Physiology, 42, 20–28.

Butler, M.S. 2004. The role of natural product chemistry in drug discovery. Journal of Natural Products, 67 (12), 2141–2153.

Clark, R.J., Menary, R.C. 1979. The effect of irrigation and nitrogen on the yield and composition of peppermint oil. Australian Journal of Agricultural Research, 31, 489–498.

Clark, R.J., Menary, R.C. 1980. Environmental effects on peppermint (*Mentha piperita* L.). Effect of day length, photon flux density, night temperature and day temperature on the yield and composition of peppermint oil. Australian Journal of Plant Physiology, 7, 685–692.

Codd, L.E. 1985. In O.A. Leistner (ed), Flora of Southern Africa, 48, (4), 1-239. Botanical Research Institute, Department of Agriculture and Water Research, Pretoria.

Collins, J.E., Lepp, N.W., Svoboda, K.P., Deans, S.G. 1994. Changes in the volatile oil from *Monarda citriodora* var. *citriodora* due to ontogeny. Chromatography and Analysis, 34, 5–7.

Court, W.A., Roy, R.C., Pocs, R. 1993. Effects of harvest date on the yield and quality of the essential oil of peppermint. Canadian Journal of Plant Science, 73, 815–824.

Deans, S.G., Ritchie, G. 1987. Antibacterial properties of plant essential oils. International Journal of Food Microbiology, 5, 165–180.

Deans, S.G., Svoboda, K.P. 1988. Antibacterial activity of French tarragon (*Artemisia dracunculus* L.) essential oil and its constituents during ontogeny. Journal of Horticultural Science, 63, 503–508.

Dorman, H.J.D., Deans, S.G. 2000. Antimicrobial agents from plants: antibacterial activity of plant volatile oils. Journal of Applied Microbiology, 88, 308–316.

Eloff, J.N. 1998. A sensitive and quick microplate method to determine the minimum inhibitory concentration of plant extracts for bacteria. Planta Medica, 64, 711–713.

Farnsworth, N.R. 1994. Ethnopharmacology and drug development. In Ciba Foundation Symposium 185, Wiley Chichester, 42–59.

Franz, C., Ceylan, A., Holzl, J., Vomel, A. 1984. Influence of the growing site on the quality of *Mentha piperita* L. oil. Acta Horticulture, 144, 145–150.

Galambosi, B., Svoboda, K.P., Deans, S.G., Hethelyi, E. 1993. Agronomical and phytochemical investigation of *Hyssopus officinalis*. Agricultural Science, Finland, 2, 293–301.

Galambosi, B., Svoboda, K.P., Hampson, J.B., Asakawa, Y. 1999. Agronomical and phytochemical investigation of *Pycnanthemum* spp. in Finland. Zeitschrift für Arznei- und Gewürzpflanzen 4, 19–23.

Ghoulami, S., Il Idrissi, A., Fkih-Tetouani, S. 2001. Phytochemical study of *Mentha longifolia* of Morocco. Fitoterapia, 72 (5), 596–8.

Harley, R.M., Brighton, C.A. 1977. Chromosome numbers in the genus *Mentha* L. Botanical Journal of the Linnean Society, 74, 71–96.

Hutchings, A., Scott, A.H., Lewis, G., Cunningham, A.B. 1996. Zulu Medicinal Plants – An Inventory. University of Natal Press, Pietermaritzburg.

Inouye, S., Takizawa, T., Yamaguchi, H. 2001. Antibacterial activity of essential oils and their major constituents against respiratory tract pathogens by gaseous contact. Journal of Antimicrobial Chemotherapy, 47, 565–573.

Kokkini, S., Karousou, R., Lanaras, T. 1995. Essential oils of Spearmint (carvone-rich) plants from the island of Crete (Greece). Biochemical Systematics and Ecology, 23 (4), 425–430.

Kokkini, S., Papageorgiou, V.P. 1998. Constituents of essential oils from *Mentha longifolia* growing wild in Greece. Planta Medica, 54, 59–60.

Lis-Balchin, M., Simmonds, M., Hart, S., Deans, S.G. 1992. Agrochemical and medicinal usage of oils of representative species of the Geraniaceae. Proceedings of the 12th International Congress Flavour, Fragrance and Essential Oils, Vienna, Austria.

Mabry, T.J., Markham, K.R., Thomas, M.B. 1970. The Systematic Identification of Flavonoids. Springer-Verlag, Germany.

Mangena, T., Muyima, N.Y.O. 1999. Comparative evaluation of the antimicrobial activities of essential oil of *Artemisia afra*, *Pteronia incana* and *Rosmarinus officinalis* on selected bacteria and yeast strains. Letter in Applied Microbilogy, 28, 291–296.

Mann, C.M., Markham, J.L. 1998. A new method for determining the minimum inhibitory concentration of essential oils. Journal of Applied Microbiology, 84, 538–544.

Markham, K.R. 1982. Techniques of Flavonoid Identification. Academic Press, London.

Martindale 1993. The Extra Pharmacopoeia. 30th Edition. Pharmaceutical Press, London.

Mastelic, J., Jerkovic, I. 2002. Free and glycosidically bound volatiles of *Mentha longifolia* growing in Croatia. Chemistry of Natural Compounds, 38 (6), 561–564.

Mimica-Dukic, N., Bozin, B., Sokkovic, M., Mihajlovic, B., Matavulj, M. 2003. Antimicrobial and antioxidant activities of three *Mentha* species essential oils. Planta Medica, 69 (5), 413–419.

Mimica-Dukic, N., Kite, G., Gasic, O., Stajner, R., Pavkov, R., Jancic, R., Fellows, L. 1993. Comparative study of volatile constituents and antimicrobial activity of *Mentha* species. ISHS Acta Horticulture 344: International Symposium on Medicinal and Aromatic Plants.

Monfared, A., Nabid, M.R., Rustaiyan, A. 2002. Composition of a carvone chemotype of *Mentha longifolia* Huds. Iranian Journal of Essential Oil Research, 14, 51–52.

Moorthy, B. 1991. Toxicity and metabolism of R-(+)- pulegone in rats: its effects on hepatic cytochrome P_{450} *in vivo* and *in vitro*. Journal of the Indian Institute of Science, 71 (1), 76–78.

Newman, D.J., Cragg, G.M., Snader, K.M. 2000. The influence of natural products upon drug discovery. Natural Product Reports, 17 (3), 215–234.

Newman, D.J., Cragg, G.M., Snader, K.M. 2003. Natural products as sources of new drugs over the period 1981–2002. Journal of Natural Products, 66 (7), 1022–1037.

Onawunmi, G.O., Yisak, W., Ogunlana, E.O. 1985. Antibacterial constituents in the essential oil of *Cymbopogon citratus* (DC.) Stapf. Journal of Ethnopharmacology, 12, 279–286.

Pattnaik, S., Subramanyam, V.R., Bapaji, M., Kole, C.R. 1997. Antibacterial and antifungal activity of aromatic constituents of essential oils. Microbiology, 89, 39–46.

Phillipson, J.D. 2001. Phytochemistry and medicinal plants. Phytochemistry, 56, 237–245.

Raman, A., Weir, U., Bloomfield, S.F. 1995. Antimicrobial effects of tea-tree oil and its major components on *Staphylococcus aureus*, *Staphylococcus epidermidis* and *Propionibacterium acnes*. Letter in Applied Microbiology, 21, 242–245.

Ravid, U., Bassat, M., Putievsky, E., Weinstein, V., Ikan, R. 1987. Isolation and determination of optically pure carvone enantiomers from caraway (*Carum carvi* L.), dill (*Anethum graveoluns* L.), spearmint (*Mentha spicata* L.) and *Mentha longifolia* (L.) Huds. Flavour and Fragrance Journal, 2, 95–97.

Rohlf, J.F. 1992. NTSYS-pc, Numerical Taxonomy and Multivariate Analysis System, Applied Biostatistics Inc., New York.

Rosch, P., Kiefer, W., Popp, J. 2000. The use of silver colloids for the analysis of *Mentha*. Institute for Physical Chemistry, University of Wurzburg, Germany.

Ross, S., El-Kektawi, N., Megala, S. 1980. Antimicrobial activity of some Egyptian aromatic plants. Fitoterapia, 201–205.

Sharipova, F.S., El'Chibekova, L.A., Nede'Ko, E.S., Gusak, L.E. 1983. Wild mints of Kazakhstan.II. Study of the chemical composition of *Mentha arvensis* L., *Mentha longifolia* (L) Hudson, *Mentha crispa* L., and *Mentha interrupta* essential oils. Chemical Abstract, CA 99 (24), 200387j.

Svoboda, K.P., Deans, S.G. 1992. A study of the variability of rosemary and sage and their volatile oils on the British market: their antioxidative properties. Flavour and Fragrance Journal, 7, 81–87.

Svoboda, K.P., Deans, S.G. 1995. Biological activities of essential oils from selected aromatic plants. Acta Horticulture, 390, 203–209.

Thomassen, D., Slattery, J.T., Nelson, S.D. 1990. Menthofuran-dependent and independent aspects of pulegone hepatotoxicity: roles of glutathione. Journal of Pharmacology and Experimental Therapeutics 253(2): 567–572. In: Tisserand, R., Balacs T. 1995. Essential Oil Safety: A Guide for Health Care Professionals. London, Churchill, Livingstone.

Van Wyk, B.E., van Oudtshoorn, B., Gericke, N. 1997. Medicinal Plants of South Africa. Briza Publications, Pretoria, South Arica.

Veale, D.J.H., Furman, K.I., Oliver, D.W. 1992. South African traditional herbal medicines used during pregnancy and childbirth. Journal of Ethnopharmacology, 36, 185–191.

Venskutonis, P.R. 1996. A chemotype of *Mentha longifolia* L. from Lithuania rich in piperitenone oxide. Journal of Essential Oil Research, 8, 91–95.

Voirin, B., Brun, N., Bayet, C. 1990. Effects of day length on the monoterpene composition of leaves of *Mentha piperita*. Phytochemistry, 29, 749–755.

Watt, J.M., Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. 2nd ed. E and S. Livingstone, Edinburgh.

Wise, M.L., Croteau, R., in Barton, D., Nakanishi, K., (Eds.). 1999. Comprehensive Natural Products Chemistry - Isoprenoids Including Carotenoids and Steroids, Pergamon Press, 2, 97–153.

Younis, Y.M.H., Beshir, S.M. 2004. Carvone-rich essential oils from *Mentha longifolia* (L.) Huds. ssp. *schimperi* Briq. and *Mentha spicata* L. grown in Sudan. Journal of Essential Oil Research**,** 16, 539–541.

Zeinali, H., Arzani, A., Razmjoo, K., Rezaee, M. 2005. Evaluation of oil compositions of Iranian mints (*Mentha* ssp.). Journal of Essential Oil Research**,** 17, 156–159.

Zohri, A.N., Abdel-Gawad, K., Sabers, S. 1995. Antibacterial, antidermatophytic and antioxegenic activities of onion. Microbiological Research, 150, 167–172.