

REFERENCES

- Alexander, D. M., Bhana, N., Bhika, K. H., and Rogers, C. B., 1992. Antimicrobial testing of selected plant extracts from *Combretum* species. S. Afr. J. Sci. 88, 342 - 344.
- Baba-Moussa, F., Akpagana, K., Bouchet, P., 1999. Antifungal activities of seven West African Combretaceae used in traditional medicine. J. Ethnopharmacol. 66 (3), 335 - 338.
- Bailey, J. A., Mansfield, J. W., eds, 1982. Phytoalexins. Halsted Press, New York.
- Begue, W. J., Kline, R. M., 1972. The use of tetrazolium salts in bioautographic procedures. J. Chromatogr. 64, 182 - 184.
- Berkowitz, F. E., 1995. Antibiotic resistance in bacteria. Southern Medical Journal. 88, 797 - 804.
- Boakye-Yiadom, K., Fagbe, N., Ayim, S., 1977. Antimicrobial properties of some West African medicinal plants IV. Antimicrobial activity of xylopic acid and other constituents of the fruits of *Xylopia aethiopica* (Annonaceae). Lloydia. 40, 6, 543 - 545.
- Bohlman, H., Clausen, S., et. al, 1988. Leaf specific thionins of barley. – a novel class of cell wall proteins toxic to plant pathogenic fungi and possibly involved in the defense of plants. Eur Mol Biol Organ. J. 7, 1559 - 1565.
- Boller, T., 1987. Hydrolytic enzymes in plant disease resistance. In Plant-microbe interactions, molecular and genetic perspectives, eds T. Kosuge, E. W. Nester, Vol 2., pp 385 - 413. Macmillan, New York.
- Breytenbach, J. C., Malan, S. F., 1989. Pharmacochemical properties of *Combretum zeyheri*. S. Afri. J. Sci. 85, 372 - 374.
- British Pharmacopoeia, 1980. British Pharmacopoeia Commission, H. M. Stationary Office, London.

- Bruneton, J., 1995, Pharmacognosy, Phytochemistry, Medicinal Plants. Intercept limited, Andover, UK.
- Calvin, M. K., 1993. Resistance to Antimicrobial Drugs – A worldwide Calamity. *Annals of Internal Medicine* 118, 557 - 561.
- Cannell, R. J. P., ed., 1998. Natural Product Isolation. Humana Press, Totowa, New Jersey.
- Carr, J. D., 1988. Combretaceae in Southern Africa. The Tree Society of Southern Africa, Johannesburg.
- Carr, J. D, Klessig, D. F., 1989. The pathogenesis-related proteins of plants. In Genetic engineering - principles and methods, ed J. K. Setlow, vol 11, pp 65 - 109. Plenum Press, New York and London.
- Carr, J. D., Rogers, C. B., 1987. Chemosystematic studies of the genus *Combretum* (Combretaceae). 1. A convenient method of identifying species of this genus by a comparison of the polar constituents extracted from leaf material. *S. Afr. J. Bot.* 53 (2), 173. - 176.
- Chino, I. B., Roussis V., Perdetzoglou D., Tzakou O., Loukis A., 1997. Chemical and Antibacterial studies of two *Helichrysum* species of Greek Origin. *Planta Medica.* 63, 181 - 183.
- Cowan, M. M., 1999. Plant Products as Antimicrobial Agents. *Clinical Microbiology Reviews*, Vol 12, 4, 564 - 582.
- Dean, R. A., Kuc, J., 1987. Immunization against disease: the plant fights back. In Fungal infection of plants, eds G. F. Pegg, P. G. Ayers, pp. 383 - 410. Cambridge University Press, Cambridge.
- Deeni, Y., Hussain, H., 1991. Screening for antimicrobial activity and for alkaloids of *Nauclea latifolia*. *J. Ethnopharmacol.* 35, 91 - 96.

Evans, W. C., 1989. Trease and Evans' Textbook of Pharmacognosy, 13th Edition, Bailliere, Tindall, London.

Eloff, J. N., 1998. The presence of antibacterial compounds in *Anthocleista grandiflora* (Loganiaceae). S. Afr Bot 64(3) 209 - 212.

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

Eloff, J. N., 1998b. Which extractant should be used for the screening and isolation of antimicrobial component from plants?. J. Ethnopharmacol. 60, 1 - 8.

Eloff, J. N., 1999. The antibacterial activity of 27 Southern African members of the Combretaceae. S. Afri. J. Sci. 95, 148 - 152.

Eloff, J. N., 1999. It is possible to use herbarium specimens to screen antibacterial components in some plants. J. Ethnopharmacol. 67, 355 - 360.

Eloff, J. N., 2000. On expressing the antibacterial activity of plant extracts- a small first step in applying scientific knowledge to rural primary health care. S. Afri J Sci. 96, 116 - 118.

Fabry, W., Okemo P. O., Ansorg R., 1998. Antibacterial activity of East African Medicinal Plants. J. Ethnopharmacol. 60, 79 - 84.

Farnsworth, N. R., 1984. The role of medicinal plants in drug development. In Natural products and Drug Development, eds P. Krogsgaard-Larsen, S. B. Christensen, H. Kofod, pp. 8 - 98. Balliere, Tindall and Cox, London.

Farnsworth, N. R., Akerele, O., Bingel, A. S., et al, 1985. Medicinal plants in therapy. Bull. World Health Organiz. 63, 965 - 981.

Farnsworth, N. R., Morris, R. W., 1976. Higher plants: the sleeping giants of drug development. Am. J. Pharm. 148, 46 - 52.

- Fernandez, M. A., Garcia, M. D., Saenz, M. T., 1996. Antibacterial activity of the phenolic acids fractions of *Scrophularia frutescens* and *Scrophularia sambucifolia*. J. Ethnopharmacol. 53, 11 - 14.
- Farnsworth, N. R., Soejarto, D.D., 1991. Global importance of medicinal plants. In Conservation of Medicinal Plants, eds O. Akerele, V Heywood, H. Synge, pp 25 - 51. Cambridge University Press, Cambridge.
- Franklin, H. E., 1991. Mechanism of disease. Review article. The New England Journal of Medicine, vol. 324, No 9, 601 - 612.
- Gelfand, M., Mavi, S., Drummond, R.B., Ndemera, B., 1985. The Traditional Medical Practitioner in Zimbabwe. Mambo Press, Gweru, Zimbabwe.
- Hammershmidt, R., Nuckles, E., Kuc, J., 1982. Association of peroxidase activity with induced systemic resistance in cucumber to *Colletotrichum lagenarium*. Physiol Plant. Pathol, 20, 73 – 82.
- Harold, C. N., 1992. The Crisis in Antibiotic Resistance. Science, 257, 1064 - 1072.
- Harborne, J. B., 1973. Phytochemical Methods. A guide to Modern Techniques of Plant Analysis, Chapman and Hall, London.
- Haslam, E., 1989. Plant Polyphenols, 1st edition, Cambridge University Press, Cambridge.
- Haslam, E., 1996. Natural polyphenols (Vegetable tannins) as drugs; possible modes of action. J. Nat. Prod. 59, 205 - 215.
- Hewitt, W., Vincent, S., 1989. Theory and application of Microbiological assay. Academic Press, London.
- Houghton, P. J., Raman, A., 1998. Laboratory Handbook for the Fractionation of Natural Extracts. Chapman and Hall, London.

- Hutchings, A., Scott, A. H., Lewis, G., Cunningham, A. B., 1996. Zulu medicinal plants-an inventory. University of Natal Press Pietermaritzburg, South Africa.
- Iwu, M., 1993. Handbook of African medicinal plants. CRC Press, Boca Raton, Florida.
- Iwu, M. W., Duncan, A. R., Okunji, C. O., 1999. New Antimicrobials of Plant Origin. In Perspectives on new crops and new uses, ed, Jannick: J., pp 457 - 462. ASHS press, Alexandria, VA.
- Katerere, D, R, P., 2001. Phytochemical and Pharmacological Studies of Species of African Combretaceae. Doctor of Philosophy Thesis (unpublished), University of Strachedhyde, UK.
- Kuc, J., 1985. Increasing crop productivity and value by increasing disease resistance through non-genetic techniques. In Forest potentials: productivity and value., ed R. Ballard, pp 147 - 190, Weyerhaeuser Company Press, Centralia.
- Kuc, J., 1990. Compounds from plants that regulate or participate in disease resistance. Bioactive compounds form plants. Wiley, Chichester (Ciba Foundation Symposium 154), 213 - 228.
- Kulcitsky, V., Hertel, J., Skoczylas, E., Swiezewska, E., Chojnacki, T., 1996. The occurrence of long-chain polyprenols in leaves of plants of Combretaceae family. Acta Biochimica Polonica. 43 (4), 707 - 711, 1996.
- Lawrence, G, H, M., 1951. The Taxonomy of Vascular Plants. Macmillan, New York.
- Mabogo, D. N., 1990. The Ethnobotany of the Vhavenda. Unpublished Master of Science Thesis, University of Pretoria.
- Majumder, P. L., 1999. Bibenzyl derivatives from the orchid *Dendrobium amoenum*. Phytochemistry, 52, 1365 - 1369.
- Parvini, I., Pellizzoni, F., Verrotta, L., Rogers, C. B., 1993. Constituents of the fruit of South African Combretum species. South African Journal of science, 89, 324 - 328.

- Malan, E., Swinny, E., 1993. Substituted bibenzyls, phenanthrenes and 9, 10. –Dihydro phenanthrenes from the heartwood of *Combretum apiculatum*. *Phytochemistry*, 34, 1139 - 1142.
- Malone, M. H., 1983. The pharmacological evaluation of natural products. General and specific approaches to screening ethnopharmaceuticals. *J. Ethnopharmacol.* 8, 127 - 147.
- Marsh, J., Goode, J. A., 1994. Antimicrobial Peptides. [Ciba Foundation Symposium. 186], John Wiley and Sons, Chichester.
- Martini, N., Eloff, J. N., 1998. The preliminary isolation of several antibacterial components from *Combretum erythrophyllum* (Combretaceae). *J. Ethnopharmacol.* 62, 255 - 263.
- McGaw, L. J., Rabe, T., Sparg, S. G., Jager, A. K., Eloff, J. N., van Staden, J., 2001. An investigation on the biological activity of *Combretum* species. *J Ethnopharmacol.* 25, 45 - 50.
- Monroe, E., Mansukh, C. W., 1996. Camptothecin and taxol: from discovery to clinic. *J. Ethnopharmacol.* 51, 239 - 254.
- Mosby Medical Encyclopedia, 1997, Penguin, New York.
- Mwaulauka, K., Charlwood, B. V., Briggs, J. M., Bell, E. A., 1975. L-2-3 (3''-aminoethylphenylalanine, a new amino acid from seeds of *Combretum zeyheri*. *Biochem . physiol. Pflazen.* 168, 15 - 18.
- National Committee for Clinical Laboratory Standards. Performance standards for antimicrobial disk susceptibility tests- fourth edition; Approved Standard. NCCLS Document M2-A4, Villanora, Pa NCCLS; 1992.
- Osborne, R., Pegel, K. H., 1984. Jessic acid and related acid triterpenoids from *Combretum elaeagnoides*. *Phytochemistry* 23, 635 - 637.
- Panzini, I., Pelizzoni, F., Verrotta, L., Rogers, C. B., 1993. Constituents of the fruit of South African *Combretum* species. *South African Journal of science* , 89, 324 - 328.

Pegel, K. H., Roger, C. B., 1985. The characterization of mollic acid 3b -D-Xyloside and its genuine aglycone mollic acid, two novel 1 α -hydroxycycloartenoids from *Combretum molle*. J. Chem. Soc., Perkin Transactions, 1, 1711 - 1715.

Pelizzoni, F., Verotta, L., Rogers, C., Pedrotti, B., Balconi, G., Erba, E., D'incalci, M., 1993. Cell growth inhibitor constituents from *Combretum kraussii*. Natural Product Letters, 14, 273 - 280.

Pettit, G. R., Singh, S. B., 1987. Isolation, structure, and synthesis of combrestatin A-2, A-3, and B-2. Can. J. Chem. 65, 2390 - 2395.

Petit, G. R., Singh, S. B., Gragg, G. M., 1987. Antineoplastic agents, 122. Constituents of *Combretum caffrum*. J. Nat. Prod. 50, 386 - 391.

Petit, G. R., Singh, S. B., Niven, M. L., Hamel, E., Schmidt, J. M., 1987. Isolation, structure, and synthesis of combretastatins A-1 and B-1, potent new inhibitors of microtubule assembly derived from *Combretum caffrum*. J. Nat. Prod, 50, 119 - 131.

Pettit, G. R., Singh, S. B., Boyd, M. R., Hamel, E., Petit, R. K., Schmidt, J. M., Hogan, F., 1995. Antineoplastic agents. 291. Isolation and synthesis of combretastatins A-4, A-5 and A-6 (1a). J. Med Chem 1995. 38, 1666 - 1672.

Rao, N., Kuc, J., 1990. Induced systemic resistance in plants. In The fungal spore and disease initiation in plants and animals, eds G. T. Cole, H. C. Hoch, Plenum Press York.

Rogers, C. B., 1989. Isolation of the 1 α -hydroxycycloartenoid mollic acid α -L-arabinoside from *Combretum edwardsii* leaves. Phytochemistry. 28, 279 - 281.

Roger, C. B., 1996. Chemistry and biological properties of the African Combretaceae. Proceedings of the first international IOCD symposium, 25 - 28 February, Victoria Falls, Zimbabwe.

- Roger, C. B., Subramony, G., 1988. The structure of imberbic acid, A 1 α -hydroxy pentacyclic triterpenoid from *Combretum imberbe*. *Phytochemistry*. 27, 531 - 553.
- Rogers, C. B., Verotta L., 1996. In *Biological and Pharmacological Properties of African Medicinal Plants*, eds F. Hostettmann, M. Chinyanganya, M. Maillard, J. L. Wolfender, pp. 121-141. University of Zimbabwe Publications, Harare.
- Sacho, H., Schoub, D. B., 1993. *Current perspectives on Nosocomial Infections*, [Sponsored by Glaxo Wellcome] 100pp Natal Witness Printing and Publishing, Pietermaritzburg.
- Salie, F., Eagles, P. F. K., 1996. Leng, H. M. J., 1996. Preliminary antimicrobial screening of four South African Astraceae species. *J. Ethnopharmacol.* 52, 27 - 33.
- Sawer, I., Berry, M., Brown, M., Ford, J., 1995. The effect of Cryptolepine on the morphology and survival of *Escherichia coli*, *Candida albicans* and *Saccharomyces cerevisiae*. *J. Appl. Bacteriol.* 79, 314 - 321.
- Silva, O., Duarte, A., Cabrita, J., Pimentel, M., Diniz, A., Gomes, E., 1996. Antimicrobial activity of Guinea-Bissau traditional remedies. *J. Ethnopharmacol.* 50, 55 - 59.
- Scalbert, A., 1991. Antimicrobial properties of tannins. *Phytochemistry*, vol.30, No.12, 3875-3883.
- Snyder, L. R., Kirkland, J. J., 1979. *Introduction to modern liquid chromatography*. John Wiley, New York.
- Stahl, E., 1969. *Thin Layer Chromatography*, 2nd edition, Springer-Verlag, Berlin, Heidenberg, New York.
- Stermer, B. A., Hammerschmidt, R., 1987. Association of heat shock induced resistance to disease with increased accumulation of insoluble extensin and ethylene synthesis. *Physiol Mol Plant Pathol*, 31, 453 - 461.
- Stuffness, M., Duoros, J., 1979. *Drugs of Plant Origin. Methods in cancer research*, 73 - 126.

Taylor, R. S., Manadhar, N. P., Towers, G. H. N., 1995. Screening of selected medicinal plants of Nepal for antimicrobial activities. *J. Ethnopharmacol.* 46, 153 - 159.

Tyler, V. E., 1997. *Rational phytotherapy*, 3rd edition, Springer-Verlag, Berlin, Heidelberg, New York.

United States Code of Federation regulations, 1980. The Office of the Federal Register, National Archives and Records Administration, Washington, D. C.

Vlietinck, A. J., Van Hoof, L., Tott, J., Lasure, A., Van den Berghe, D., Rwangabo, P. C., Mvukiyumwami, J., 1995. Screening of hundred Rwandese medicinal plants for antimicrobial and antiviral properties. *J. Ethnopharmacol.* 46, 31 - 47.

Wagner, B., Blatt, S., 1996. *Plant Drug Analysis. A Thin Layer Chromatography Atlas.* Springer-Verlag Berlin, Heidelberg, New York.

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