

REFERENCES

REFERENCES

- Anonymous, (1987). **The Wealth of India: Raw materials**. New Delhi: Publication and Information Directorate, Council of Scientific and Industrial Research.
- Ashbee, H. R. and Evans, E. G. (2002). Immunology of diseases associated with *Malassezia* species. **Clinical Microbiology**, 15(1), 21-57.
- Attele, A. S., Wu, J. A. and Yuan, C. S. (1999). Ginseng pharmacology. Multiple constituents and multiple actions. **Biochemical Pharmacology**, 58(11), 1685-1693.
- Avijgan, M., Mahboubi, M., Darabi, M., Saadat, M., Sarikhani, S. and Nazilla, K. (2010). Overview on *Echinophora platyloba*, a synergistic antifungal agent candidate. **Journal of Yeast and Fungal Research**, 1(5), 88-94.
- Bharatiya Vidya Bhavan's Swami Prakashananda Ayurveda Research Center. (1992). **Selected Medicinal Plants of India**. Bombay: Chemexcil.
- Bhattacharya, S. K., Bhattacharya, A. and Chakrabarti, A. (2000). Adaptogenic activity of Siotone, a polyherbal formulation of Ayurvedic rasayanas. **Indian Journal of Experimental Biology**, 38(2), 119-28.
- Bhattacharya, A., Murugandam, A. V., Kumar, V. and Bhattacharya, S. K. (2002). Effect of polyherbal formulation, EuMil, on neurochemical perturbations induced by chronic stress. **Indian Journal of Experimental Biology**, 40(10), 1161-1163.
- Bopana, N. and Saxena, S. (2007). *Asparagus racemosus*-Ethnopharmacological evaluation and conservation needs. **Journal of Ethnopharmacology**, 110(1), 1-15.
- Cragg, G. M. and Newman, D. J. (2001). Natural product drug discovery in the next millennium. **Pharmaceutical Biology**, 39, 8-17.
- Cutsem, J. van, Gerven, F. van, Franssen, J., Schrooten, P. and Janssen, P. A. (1990). The *in vitro* antifungal activity of ketoconazole, zinc pyrithione, and selenium sulfide against *Pityrosporum* and their efficacy as a shampoo in the treatment of experimental pityrosporiasis in guinea pigs. **Journal of the American Academy of Dermatology**, 22(6), 993-998.

- Dange, P. S., Kanitkar, U. K. and Pendse, G. S. (1969). Amylase and lipase activities in the root of *Asparagus racemosus*. **Planta Medica**, 17(4), 393-395.
- Dhuley, J. N. (1997). Effect of some Indian herbs on macrophage functions in ochratoxin A treated mice. **Journal of Ethnopharmacology**, 58(1), 15-20.
- Dinan, L., Savchenko, T. and Whiting, P. (2001). Phytoecdysteroids in the genus *Asparagus* (Asparagaceae). **Phytochemistry**, 56(6), 569-576.
- Diwanay, S., Chitre, D. and Patwardhan, B. (2004). Immunoprotection by botanical drugs in cancer chemotherapy. **Journal of Ethnopharmacology**, 90(1), 49-55.
- Elisa, B., Giuliano, B., Vincenzo, A., Behzad, Z., Ebrahim S., Felice, S., et al. (2007). Saponins from *Allium minutiflorum* with antifungal activity. **Phytochemistry**, 68(5), 596-603.
- Faergemann, J., Hersle, K. and Nordin, P. (1997). Pityriasis versicolor: clinical experience with Lamisil cream and Lamisil DermGel. **Dermatology**, 194(1), 19-21.
- Farnsworth, N. R., Akerele, O., Bingel, A. S., Soejarto, D. D., and Guo, Z. (1985). Medicinal plants in therapy. **Bulletin of the World Health Organization**, 63(6), 965-981.
- Farthing, C. F., Staughton, R. C. D. and Rowland, Payne, C. M. E. (1985). Skin disease in homosexual patients with Acquired Immune Deficiency Syndrome (AIDS) and lesser forms of human T cell Leukaemia Virus (HTLV III) disease. **Clinical and Experimental Dermatology**, 10(1), 3-12.
- Francis, G., Kerem, Z., Makkar, P. S. H. and Becker, K. (2002). The biological action of saponins in animal systems: a review. **British Journal of Nutrition**, 88(6), 587-605.
- Gautam, M., Diwanay, S., Gairola, S., Shinde, Y., Patki, P. and Patwardhan, B. (2004). Immunoadjuvant potential of *Asparagus racemosus* aqueous extract in experimental system. **Journal of Ethnopharmacology**, 91(2-3), 251-255.

- Gemmer, C. M., DeAngelis, Y. M., Theelen, B., Boekhout, T. and Dawson, T. L. (2002). Fast, noninvasive method for molecular detection and differentiation of *Malassezia* yeast species on human skin and application for the method to dandruff microbiology. **Journal of Clinical Microbiology**, 40(9), 3350-3357.
- Ghumare, B. C., Vadlamudi, V. P. and Rajurkar, S. R. (2004). Effect of *Asparagus racemosus* on growth and development of testes in wistar rats. **Aryavaidyan**, 18(1), 45-48.
- Gupta, A. K., (2002). Butenafine: an update of its use in superficial mycoses. **Skin Therapy Letter**, 7(7), 1-5.
- Gupta, A. K., Batra, R., Bluhm, R. and Faergemann, J. (2003a). Pityriasis versicolor. **Dermatology Clinical**, 21(3), 413-429.
- Gupta, A. K., Bluhm, R., Cooper, E. A., Summerbell, R. C. and Batra, R. (2003b). Seborrheic dermatitis. **Dermatology Clinical**, 21(3), 401-412.
- Gupta, A. K., Roma, B., Robyn, B., Teun, B. and Thomas, L. D. (2004). Skin diseases associated with *Malassezia* species. **Journal of the American Academy of Dermatology**, 51(5), 785-798.
- Hayes, P. Y., Jahidin, A. H., Lehmann, R., Penman, K., Kitching, W. and De Voss, J. J. (2007). Steroidal saponins from the roots of *Asparagus racemosus*. **Phytochemistry**, 69(3), 796-804.
- Joglekar, G.V., Ahuja, R. H. A. and Balwani, J. H. (1967). Galactogogue effect of *Asparagus racemosus*. **Indian Medical Journal**, 61(7), 165.
- Johnson, B. A. and Nunley, J. R. (2000). Treatment of seborrheic dermatitis. **American Family Physician**, 61(9), 2703-2704.
- Kamat, J. P., Bolor, K. K., Devasagayam, T. P. and Venkatachalam, S. R. (2000). Antioxidant properties of *Asparagus racemosus* against damage induced by gamma-radiation in rat liver mitochondria. **Journal of Ethnopharmacology**, 71(3), 425-435.
- Khanna, A. K., Chander, R. and Kapoor, N. K. (1991). Hypolipidaemic activity of Abana in rats. **Fitoterapia (Italy)**, 62(3), 271-275.

- Kinnunen, T. and Koskela, M. (1991). Antibacterial and antifungal properties of propylene glycol, hexylene glycol, and 1,3-butylene glycol *in vitro*. **Acta Dermato-Venereologica**, 71(2), 148-150.
- Kulkarni, S. K. and Verma, A. (1993). Protective effect of Mentat (BR-16A) A herbal preparation, on alcohol abstinence-induced anxiety and convulsions. **Indian Journal of Experimental Biology**, 31(5), 435-442.
- Lalitha, T. and Venkataraman, L. V. (1991). Antifungal activity and mode of action of saponins from *Madhuca butyracea* Macb. **Indian Journal of Experimental Biology**, 29(6), 558-562.
- Ling, M. R. (2001) Topical tacrolimus and pimecrolimus: future directions. **Seminars in Cutaneous Medicine and Surgery**, 20(4), 268-274.
- Luccaa, A. J., Bland, J. M., Boue, S., Vigo, C. B., Cleveland, T. E. and Walsh, T. J. (2006). Synergism of CAY-1 with amphotericin B and itraconazole. **Chemotherapy**, 52(6), 285-287.
- Mandal, S. C., Kumar, C. K. A., Lakshmi, M., Sinha, S., Murugesan, T., Saha, B. P. and Pal, M. (2000a). Antitussive effect of *Asparagus racemosus* root against sulphur dioxide-induced cough in mice. **Fitoterapia**, 71(6), 686-689.
- Mandal, S. C., Nandy, A., Pal, M. and Saha, B. P. (2000b). Evaluation of antibacterial activity of *Asparagus racemosus* Willd. root. **Phytotherapy Research**, 14(2), 118-119.
- Marc, S., Tomofumi, M., Marie, A. and Laeaille, D. (2007). Steroidal saponins from *Asparagus acutifolius*. **Phytochemistry**, 68(20), 2554-2562.
- Marston, A., Gafner, F., Dossaji, S. F. and Hostettmann, K. (1988). Fungicidal and molluscicidal saponins from *Dolichos kilimandscharicus*. **Phytochem**, 27(5), 1325-1326.
- McGinley, K. J. and Leyden, J. J. (1982). Antifungal activity of dermatological shampoos. **Archives Dermatology Research**, 272, 339-342.
- Miyakoshi, M., Tamura, Y., Masuda, H., Mizutani, K., Tanaka, O., Ikeda, T., et al. (2000). Antiyeast steroidal saponins from *Yucca schidigera* (Mohave yucca), a new anti-food-deteriorating agent. **Journal of Natural Products**, 63(3), 332-338.

- Mshvildadze, V., Favel, A., Delmas, F., Elias, R., Faure, R., Decanosidze, Q., et al. (2000). Antifungal and antiprotozoal activities of saponins from *Hedera colchica*. **Pharmazie**, 55(4), 325-326.
- Nakagawa, H., Etoh, T., Yokota, Y., Ikeda, F., Hatano, K., Teratani, N., et al. (1996). Tacrolimus has antifungal activities against *Malassezia furfur* isolated from healthy adults and patients with atopic dermatitis. **Clinical Drug Investigation**, 12, 245-250.
- Nanal, B. P., Sharma, B. N., Ranade, S. S. and Nande, C. V. (1974). Clinical study of Shatavari (*Asparagus racemosus*). **Journal of Research in Indian Medicine**, 9, 23-29.
- Oleszek, W. A. (2002). Chromatographic determination of plant saponins. **Journal of Chromatography A**, 967(1), 147-162.
- Pandey, S. K., Sahay, A., Pandey, R. S. and Tripathi, Y. B. (2005). Effect of *Asparagus racemosus* (Shatavari) rhizome on mammary gland and genital organs of pregnant rat. **Phytotherapy Research**, 19(8), 721-724.
- Parihar, M. S. and Hemnani, T. (2004). Experimental excitotoxicity provokes oxidative damage in mice brain and attenuation by extract of *Asparagus racemosus*. **Journal of Neural Transmission**, 111(1), 1-12.
- Patel, A. B. and Kanitkar, U. K. (1969). *Asparagus racemosus* willd - form bordi, as a galactagogue, in buffaloes. **Indian Veterinary Journal**, 46(8), 718-721.
- Polacheck, I., Levy, M., Guizie, M., Zehavi, U., Naim, M. and Evron, R. (1991). Mode of action of the antimycotic agent G2 isolated from alfalfa roots. **Zentralbl Bakteriologie**, 275, 504-512.
- Price, K. R., Johnson, I. T. and Fenwick, G. R. (1987). The chemistry and biological significance of saponins in foods and feedstuffs. **Critical Reviews in Food Science and Nutrition**, 26(1), 27-135.
- Reamyindee, N., Phrompittayarat, W., Putalun W., Tanaka, H. and Ingkaninan, K. (2011). Determination of steroid saponins in *Asparagus racemosus* roots using ELISA method with monoclonal antibody against Shatavarin IV. In **Proceedings of the Third International Conference on Natural Products for Health and Beauty** (p.162). Bangkok: Rangsit University.

- Rege, N. N. and Dahanukar, S. A. (1993). Quantitation of microbicidal activity of mononuclear phagocytes: an *in vitro* technique. **Journal of Postgraduate Medicine**, 39(1), 22-25.
- Rege, N. N., Nazareth, H. M., Isaac, A., Karandikar, S. M. and Dahanukar, S. A. (1989). Immunotherapeutic modulation of intraperitoneal adhesions by *Asparagus racemosus*. **Journal of Postgraduate Medicine**, 35(4), 199-203.
- Rege, N. N., Thatte, U. M. and Dahanukar, S. A. (1999). Adaptogenic properties of six rasayana herbs used in Ayurvedic medicine. **Phytotherapy Research**, 13(4), 275-291.
- Rao, A. R. (1981). Inhibitory action of *Asparagus racemosus* on DMBA-induced mammary carcinogenesis in rats. **International Journal of Cancer**, 28(5), 607-610.
- Sabnis, P. B., Gaitonde, B. B. and Jetmalani, M. (1968). Effects of alcoholic extract of *Asparagus racemosus* on mammary glands of rats. **Indian Journal of Experimental Biology**, 6, 55-57.
- Saxena, V. K. and Chourasia, S. (2001). A new isoflavone from the roots of *Asparagus racemosus*. **Fitoterapia**, 72(3), 307-309.
- Sekine, T., Fukasawa, N., Kashiwagi, Y., Ruangrunsi, N. and Murakoshi, I. (1994). Structure of asparagamine A, a novel polycyclic alkaloid from *Asparagus racemosus*. **Chemical and Pharmaceutical Bulletin**, 42(6), 1360-1362.
- Sekine, T., Fukasawa, N., Murakoshi, I. and Ruangrunsi, N. (1997). A 9,10-dihydrophenanthrene from *Asparagus racemosus*. **Phytochemistry**, 44(4), 763-764.
- Shakila, R. J., Vasundhara T. S. and Rao, D. V. (1996). Inhibitory effect of spices on *in vitro* histamine production and histidine decarboxylase activity of *Morganella morganii* and on the biogenic amine formation in mackerel stored at 30 degrees C. **Zeitschrift für Lebensmittel-Untersuchung und-Forschung**, 203(1), 71-76.
- Sharma, S., Ramji, S., Kumari, S. and Bapna, J. S. (1996). Randomized controlled trial of *Asparagus racemosus* (shatavari) as lactagogue in lactational inadequacy. **Indian Paediatrics**, 33(8), 675-677.

- Shimoyamada, M., Suzuki, M., Sonta, H., Maruyama, M. and Okubo, K. (1990). Antifungal activity of the saponin fraction obtained from *Asparagus officinalis* L. and its active principle. **Agricultural Biological Chemistry**, 54 (10), 2553-2557.
- Smith, K. J., Skelton, H. G., Yeager, J., Ledsky, R., McCarthy, W., Baxter, D., et al., (1994). Cutaneous findings in HIV-1 positive patients: a 42-month prospective study. **Journal of the American Academy of Dermatology**, 31(5), 746-754.
- Sparg, S. G., Light, M. E. and Staden, J. van. (2004). Biological activities and distribution of plant saponins. **Journal of Ethnopharmacology**, 94(2-3), 219-243.
- Takechi, M., Matsunami, S., Nishizawa, J., Uno, C. and Tanaka, Y. (1999). Haemolytic and antifungal activities of saponins or anti-ATPase and antiviral activities of cardiac glycosides. **Planta Medica**, 65(6), 585-586.
- Takeo, K. and Nakai, E. (1986). Mode of cell growth of *Malassezia (Pityrosporum)* as revealed by using plasma membrane configuration as natural markers. **Canadian Journal of Microbiology**, 32, 389-394.
- Thatte, U. M., and Dahanukar, S. A. (1988). Comparative study of immunomodulating activity of Indian medicinal plants, lithium carbonate and glucan. **Methods and Findings in Experimental and Clinical Pharmacology**, 10(10), 639-644.
- Uma, B., Prabhakar, K. and Rajendran, S. (2009). Anticandidal activity of *Asparagus racemosus*. **Indian Journal of Pharmaceutical Sciences**, 71(3), 342-343.
- Uchida, K., Nishiyama, Y., Tanaka, T. and Yamaguchi, H. (2003). *In vitro* activity of novel imidazole antifungal agent NND-502 against *Malassezia* species. **International Journal of Antimicrobial Agents**, 21(3), 234-238.
- Vardy, D. A., Zvulunov, A., Tchetov, T., Biton A. and Rosenman, D. (2000). A double-blind, placebo-controlled trial of a ciclopirox olamine 1% shampoo for the treatment of scalp seborrheic dermatitis. **Journal of Dermatological Treatment**, 11(2), 73-77.

- Visavadiya, N. P. and Narasimhacharya A. V. R. L. (2005). Hypolipidemic and antioxidant activities of *Asparagus racemosus* in hypercholesteremic rats. **Indian Journal of Pharmacology**, 37(6), 376-380.
- Warner, R. R., Schwartz, J. R., Boissy, Y. and Dawson, T. L. (2001). Dandruff has an altered stratum corneum ultrastructure that is improved with zinc pyrithione shampoo. **Journal of the American Academy of Dermatology**, 45(6), 897-903.
- Warren, R., Schwartz, J. R., Sanders, L. M. and Juneja, P. S. (2003). Attenuation of surfactant-induced interleukin-1alpha expression by zinc pyrithione. **Exogenous Dermatology**, 2, 23-27.
- Warren, L. (2008). **Review of Medical Microbiology and Immunology**. California: McGraw-Hill Medical.
- Wiboonpun, N., Phuwapraisirisan, P. and Tip-pyang, S. (2004). Identification of antioxidant compound from *Asparagus racemosus*. **Phytotherapy Research**, 18(9), 771-773.
- Zhang, J. D., Zheng, X., Cao, Y. B., Chen, H. S., Yan, L., An, M. M., et. al. (2006). Antifungal activities and action mechanisms of compounds from *Tribulus terrestris* L. **Journal of Ethnopharmacology**, 103(1), 76-84.