

# BIBLIOGRAPHY

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1. Olsen, E.A. Androgenetic alopecia. In: Disorders of Hair Growth, Diagnosis and Treatment, McGraw-Hill, New York, 257–287, 1993.
2. Dollob, A.L., Sadick, N.S., Unger, W., Lipert, S., Geissler, L.A., Gregoire, S.L., Nguyen, N.N., Moore, N.C., & Tanaka, W.K. The effect of finasteride, a 5  $\alpha$ -reductase inhibitor, on scalp skin testosterone and dihydrotestosterone concentrations in patients with male pattern baldness, *J. Clin. Endocrinol. Metab.* **79**, 703, 1994.
3. Porter, R.M. Mouse models for human hair loss disorders, *J. Anat.* **202**, 125–131, 2003.
4. Robbins, C.R. *Chemical and Physical Behavior of Human Hair*, Fourth Edition, Springer-Verlag, New York, 25-50, 2002.
5. Welshons, W.V., Lieberman, M.E., & Gorski, J. Nuclear localization of unoccupied estrogen receptors, *Nature* **307**, 747, 1984.
6. Sawaya, M.E., Honig, L.S., Garland, L.D., & Hsia, S.L. Delta 5-3- $\beta$ -hydroxy-steroid-dehydrogenase activity in sebaceous glands of scalp in male-pattern baldness, *J. Invest. Dermatol.* **91**, 101-105, 1988.
7. Kassenbeck, P. In: *Hair Research*, Orfanos, C., Montagna, W., & Stuttgen, G. eds., Springer-Verlag, Berlin, 52-64, 1981.
8. Steinert, P.M., Parry, D.A.D., & Marekov, L.N. Trichohyalin mechanically strengthens the hair follicle, *J. Biol. Chem.* **278**, 41409–41419, 2003.
9. Fraser, R.B.D., et al. Disulfide bonding in Alpha-keratin, *Int. J. Biol. Macromol.* **10**, 106, 1988.
10. Rogers, et al., In: *The Biology of Wool and Hair*, Rogers, G.E., et al. eds., Chapman & Hall, London, New York, 69-85, 1989.
11. Swift, J.A. Morphology and histochemistry of human hair. In: Jolles, P., Zahn, H., & Hoecker, H. (eds) *Formation and structure of human hair*, Birkhäuser Verlag, Berlin, 149–175, 1997.
12. Thibaut, S., Gailard, O., Bouhanna, P., Cannell, D.W., & Bernard, B.A. Human hair shaped is programmed from the bulb, *Br J Dermatol.* **152**, 632–638, 2005.

13. Orwin, D.F.G. Cell differentiation in the lower outer sheath of the Romney wool follicle: A companion cell layer, *Aust. J. Biol. Sci.* **24**, 989–999, 1971.
14. Kaufman, C.K., Zhou, P., Pasolli, H.A., Rendl, M., Bolotin, D., Lim, K.C., Dai, X., Alegre, M.L., & Fuchs, E. GATA-3: an unexpected regulator of cell lineage determination in skin, *Genes Dev.* **17**, 2108-2122, 2003.
15. Morioka, K. Hair Follicle, *Differentiation under the Electron Microscope: An Atlas*, Springer-Verlag Tokyo Berlin Heidelberg New York, 2004.
16. Matthew. Picture and Labeled Parts of a Complete Hair, Forensic Projects, [www.mstanburyforensics.blogspot.com](http://mstanburyforensics.blogspot.com), 2011.
17. Oshima, H., et al., Morphogenesis and renewal of hair follicles from adult multipotent stem cells, *Cell* **104**, 233–245, 2001.
18. Whiting, D.A. Scalp biopsy as a diagnostic and prognostic tool in androgenetic alopecia, *Dermatol Thr.* **8**, 24-33, 1998.
19. Jahoda, C.A.B., & Reynolds, A.J. Induction of follicle formation and hair growth by vibrissa dermal papillae implanted into rat ear wounds: vibrissae-type fibers are specified, *Development* **115**, 1103-9, 1992.
20. Roh, S.S., Park, S.J., Hwang, S.L., Lee, M.H., Kim, C.D., Lee, I.H., Chang, S.Y., & Rang, M.J. The hair growth promoting effect of *Asiasari radix* extract and its molecular regulation, *J. Dermatol. Sci.* **38**, 89-97 2005.
21. Spearman, R.I.C. Hair follicle development, cyclical changes and hair form. In: The hair follicle, Academia Press, London, 1268, 1977.
22. Randall, V.A., & Botchkareva, N.V. The biology of Hair growth. In: Cosmetic applications of laser and light based systems, William Andrew, Norwich, NY, 3-35, 2009.
23. Muller-Rover, S., Handjiski, B., Vander, V.C., Eichmuller, S., Foitzik, K., McKay, I.A., Stenn, K.S., & Paus, R. A comprehensive guide for the accurate classification of murine hair follicles in distinct hair cycle stages, *J. Invest. Dermatol.* **117**, 3-15, 2001.
24. Paus, R., & Cotsarelis, G. The biology of hair follicles, *N. Engl. J. Med.* **341**, 491-497, 1999.
25. Stenn, K.S., & Paus, R. Controls of hair follicle cycling, *Physiol Rev* **81**, 449-494, 2001.
26. Ito, M. The inner most layer of the outer root sheath in human anagen hair follicle, Light and electron microscopic study, *Arch. Dermatol. Res.* **279**, 112–119, 1986.
27. Ito, M. Biologic roles of the innermost cell layer of the outer root sheath in human anagen hair follicles: further electron microscopy studies, *Arch. Dermatol. Res.* **281**, 254– 259, 1989.
28. Randall, V.A. Is *Alopecia areata* an autoimmune disease? *Lancet* **358**, 1922-1924, 2001.
29. Sato, N., Leopold, P.L., & Crystal, R.G. Induction of the hair growth phase in postnatal mice by localized transient expression of sonic hedgehog, *J. Clin. Invest.* **104**, 855-864, 1999.

30. Al-Nuaimi, Y., Goodfellow, M., Paus, R., & Baier G. A prototypic mathematical model of the human hair cycle, *J. Theor. Biol.* **310**, 143–159, 2012.
31. Ozeki, M., & Tabata, Y. *In-vivo* promoted growth of mice hair follicles by the controlled release of growth factors, *Biomaterials* **24**, 2387–2394, 2003.
32. Fujie, T., Katoh, S., Oura, H., Urano, Y., & Arase, S. The chemotactic effect of a dermal papilla cell-derived factor on outer root sheath cells, *J. Dermatol. Sci.* **25**, 206–12, 2001.
33. Thigpen, A.E., Davis, D.L., Milatovich, A., Mendonca, B.B., Imperato-McGinley, J., Griffin, J.E., Francke, U., Wilson, J.D., & Russell, D.W. Molecular genetics of steroid 5a-reductase 2 deficiency, *J. Clin. Invest.* **90**, 799–809, 1992.
34. Hoffmann, R., & Happle, R. Current understanding of androgenic alopecia. Part I. Atio-pathogenesis, *Eur. J. Dermatol.* **10**, 319–27, 2000.
35. Sinclair, R.D. Male androgenic alopecia, *The Journal Men's Health & Gender* **1**, 319–327, 2004.
36. Alexis, A.F., Duddasubramanya, R., & Sinha, A.A. *Alopecia areata*: autoimmune basis of hair loss, *Eur. J. Dermatol.* **14**, 364–70, 2004.
37. Gilhar, A., & Kalish, R.S. *Alopecia areata*: a tissue specific autoimmune disease of the hair follicle, *Autoimmun. Rev.* **5**, 64–69, 2006.
38. Tazi-Ahnini, Cork, M.J., Wengraf, D., Gawkrodger, D.J., Birch, M.P., McDonagh, A.J.G., & Messenger, A.G. Role of the autoimmune regulator AIRE gene in *Alopecia areata*: strong association of a potentially functional AIRE polymorphism with *Alopecia universalis*, *Tissue Antigens* **60**, 489–49, 2002a.
39. Bertolino, A.P. Alopecia areata a clinical overview, *Postgrad Med* **81**(5), 81–93, 2000.
40. Kumar, N., Rungseevijitprapa, W., Narkkhong, N., Suttajit, M., & Chaiyasut, C. 5 $\alpha$ -reductase inhibition and hair growth promotion of some Thai plants traditionally used for hair treatment, *J. Ethnopharmacol.* **139**, 765–771, 2012.
41. Kamimura, A., & Takahashi, T. Procyanidin B-2 extracted from apples, promotes hair growth: a laboratory study, *Br. J. Dermatol.* **146**, 41–51, 2005.
42. Unger, W.P., & Unger, R.H. Hair transplanting: an important but often forgotten treatment for female pattern hair loss, *J. Am. Acad. Dermatol.* **49**, 853–60, 2003.
43. Unger, W. Effect of rapid transfer of grafts from the donor area to the recipient site, In: *Hair Transplantation*, 4th ed., Dekker, M., New York, 295, 2004.
44. Thiedke, C.C. Alopecia in women, *Am. Fam. Physician* **67**(5), 1007–14, 2003.
45. Harrison, S., & Sinclair, R. Telogen effluvium, *Clin. Exp. Dermatol.* **27**, 389–5, 2002.

46. Rakowska, A., Slowinska, M., & Kowalska-Oledzka, E. Trichoscopy in genetic hair shaft abnormalities, *J. Dermatol. Case Rep.* **2**, 14–20, 2008.
47. Dhurat, R.P., & Deshpande, D.J. Loose anagen hair syndrome, *Int. J. Trichology* **2**, 96-100, 2010.
48. Tosti, A., & Piraccini, B.M. Loose Anagen Hair Syndrome and Loose Anagen Hair, *Arch. Dermatol.* **138**, 521-522, 2002.
49. Kucerová, R., Bienova, M., Novotný, R., Fluerášková, M., Hajdch, M., & Sovak, M. Current therapies of female androgenic alopecia and use of fluridil, a novel topical antiandrogen, *Scripta Medica BRNO* **79**, 35–48, 2006.
50. Mounsey, A.L., & Reed, S.W. Diagnosing and Treating Hair Loss, *American Family Physician* **80**, 356-362, 2009.
51. Olsen, E.A. Female pattern hair loss and its relationship to permanent/cicatricial alopecia: a new perspective, *J. Investig. Dermatol. Symp. Proc.* **10**, 217-221, 2005.
52. Dhanotia, R., Chauhan, N.S., Saraf, D.K., & Dixit, V.K. Effect of *Citrullus colocynthis* Schrad fruits on testosterone induced alopecia, *Nat. Prod. Res.* **25**, 1432-1443, 2011.
53. Yoo, H.G., Kim, J.S., Lee, S.R., Pyo, H.K., Moon, H.I., Lee, J.H., Kwon, O.S., Chung, J.H., Kim, K.H., Eun, H.C., & Cho, K.H. Perifollicular fibrosis: pathogenetic role in Androgenetic alopecia, *Biol. Pharm. Bull.* **29**, 1246-1250, 2006.
54. Birch, M.P., Lashen, H., Agarwal, S., & Messenger, A.G. Female pattern hair loss, sebum excretion and the end-organ response to androgens, *Br. J. Dermatol.* **154**, 85-9, 2006.
55. Scheinfeld, N. A review of hormonal therapy for female pattern androgenic alopecia, *J. Dermatol. Online* **14**, 1, 2008.
56. Hunt, N., & McHale, S. The psychological impact of alopecia, *The Psychologist* **20**, 362-364, 2007.
57. Dinh, Q.Q., & Sinclair, R. Female pattern hair loss: current treatment concepts, *Clin. Interv. Aging* **2**, 189-99, 2007.
58. Piérard-Franchimont, C., Xhaulaire-Uhoda, C., & Piérard, G.E. Revisiting dandruff, *Int. J Cosmet. Sci.* **28**, 311–318, 2006.
59. Donnarumma, G., Paoletti, I., Buommino, E., Orlando, M., Antonietta T.M., & Baroni, A. *Malassezia furfur* induces the expression of β-defensin-2 in human keratinocytes in a protein kinase C-dependent manner, *Arch. Dermatol. Res.* **295**, 474–481, 2004.
60. Pierard-Franchimont, C., Hermanns, J.F., Degreef, H., & Pierard, G.E. From axioms to new insights into dandruff, *Dermatol.* **200**, 93–98, 2000.
61. Pierard-Franchimont, C., Xhaulaire-Uhoda, E., Loussouarn, G., Saint Leger, D., & Pierard, G.E. Dandruff-associated smouldering alopecia: A chrono-biological assessment over 5 years, *Clin. Exp. Dermatol.* **31**, 23–26, 2006.
62. Pan American Health Organisation PAHG The control of lice and louse-borne diseases. Proceedings of the International Symposium on the Control of Lice and Louse-borne diseases, Washington, D.C. Dec. 4–6 1972. World Health Organisation, Washington, D.C. *Scientific Publ.*

- 263,311–320, 1973.
63. Anonymous, *Basic information about human lice*, Pharmecs Div., Pfizer Inc., New York, 12, 1975.
  64. Mallis, A. *Handbook of pest control*, 7th edn. Franzak & Foster Co., Cleveland, 1990.
  65. Nutanson, I., Steen, C.J., Schwartz, R.A., & Janniger, C.K. *Pediculus humanus capitis*: an update, *Acta Dermato. Alp. Panonica Adriat* **17**, 147–54, 2008.
  66. Abdel-Ghaffar, F., & Semmler, M. Efficacy of neem seed extracts shampoo on head lice of naturally infected humans in Egypt, *Parasitol. Res.* **100**,329–332, 2007.
  67. Draelos, Z.D. The cosmeceutical conundrum, *J. Cosmet. Dermatol.* **4**, 149–150, 2005.
  68. Alzolbani, A.A. Epidemiologic and genetic characteristics of alopecia areata part 1, *Acta Dermat. APA* **20**, 191-198, 2011.
  69. Safavi, K.H., Muller, S.A., & Suman, V.J., et al. Incidence of alopecia areata in Olmsted County, Minnesota, *Mayo Clin. Proc.* **70**, 628-33, 1995.
  70. Shellow, W.V., Edwards, J.E., & Koo, J.Y. Profile of *Alopecia areata*: a questionnaire analysis of patient and family, *Int. J. Dermatol.* **31**, 186–189, 1992.
  71. Goodman, L.S., & Gilman, A. *The Pharmacological Basis of Therapeutics*, McGraw Hills, New York, 1611, 1996.
  72. Roy, R.K., Mayank, T., & Dixit, V.K. Effect of *Citrullus colocynthis* Schrad on hair growth activity of albino rats, *Pharma. Biol.* **45**, 739–744, 2007.
  73. Libecco, J.F., & Bergfeld, W.F. Finasteride in the treatment of alopecia, *Expert Opin Pharmacother* **5**(4), 933–940, 2004.
  74. Sawaya, M.E., & Shapiro, J. Androgenic alopecia. New approved and unapproved treatments, *Dermatol. Clin.* **18**(1), 47-61, 2000.
  75. Lacy, C.F., Armstrong, L.L., Goldman, M.P., & Lance, L.L. *Drug Information Handbook with International Trade Names Index*, 17th ed. LexiComp Inc., United States, 652–653, 2008.
  76. Sawaya, M.E. Differences in the mechanisms of androgen action in hair follicles from women and men with androgenic alopecia, *Hair and its disorders: Biology, Pathology and management*, 153-157, 2000.
  77. Srivastava, S.B. Diffuse hair loss in an adult female: approach to diagnosis and management, *Ind. J. Dermatol. Venereol. Leprol.* **75**, 20-7, quiz 27-8, 2009.
  78. Rogers, N.E., & Avram, M.R. Medical treatments for male and female pattern hair loss, *J. Am. Acad. Dermatol.* **59**,547-66, 2008.
  79. Basch, E., Ulbricht, C., Abrams, T., Quach, C., Tannous, C. Evidence-Based Systematic Review of Selenium Se, *JANA* **72**, 11-23, 2004.
  80. Hsieh, C., Tu, M., & Wu, Y. Allergic contact dermatitis induced by zinc pyrithione in shampoo: a case report, *Dermatol. sinica* **28**, 163–166, 2010.
  81. Vyjayanthi, G., Chanda Kulkarni, Anil Abraham & S.A. Kolhapure. Evaluation of anti-dandruff activity and safety of polyherbal hair oil: An open pilot clinical trial, *The Antiseptic* **101**(9), 368-372, 2004.

82. Canadian Paediatric Society. Head lice infestations: A clinical update, *Paediatr. Child Health* **13**, 692-696, 2008.
83. Jones, K.N. English JC 3rd. Review of common therapeutic options in the United States for the treatment of *Pediculosis capitis*, *Clin. Infect. Dis.* **36**, 1355-61, 2003.
84. Nolan, K., Kamrath, J., & Levitt, J. Lindane toxicity: a comprehensive review of the medical literature, *Pediatr. Dermatol.* **29**, 141-6, 2012.
85. U.S. Environmental Protection Agency (EPA) (1997) Office of Pesticide Programs. List of chemicals evaluated for carcinogenic potential. Memo from W.L. Burnman, HED, to HED branch chiefs. Washington D.C. (Feb.19).
86. Khongsai, M., Saikia, S.P., & Kayang, H. Ethnomedicinal plants used by different tribes of Arunachal Pradesh, *Ind. J Trad. Knowl.* **10**, 541-546, 2011.
87. Joy, P.P., Thomas, J., Mathew, S., & Skaria, B.P. Medicinal Plants: Tropical Horticulture 2, Naya Prokash Publishers, India, 449-632, 2001.
88. Nath, S.C., & Borah, S.M. Harnessing Medicinal Plants through Ethnobotanic Approach in North-East India, *Science and Culture* **77**(11 &12), 441-445, 2011.
89. Sandhya, S., Chandrasekhar, J., Vinod, K.R., & Banji, D. Potentiation of aqueous leaf extract of *Trichosanthes cucumerina Linn* on hair growth promotion in wistar albino rats, *Ind. J. Nat. Prod. Resour.* **3**, 14-19, 2012.
90. Nyholt, D.R., Gillespie, N.A., Heath, A.C., & Martin, N.G. Genetic basis of male pattern baldness, *J. Invest. Dermatol.* **121**, 1561-4, 2003.
91. Williams, G.R., & Franklyn, J.A. Physiology of the steroid-thyroid hormone nuclear receptor superfamily, *Baillieres Clin. Endocrinol. Metab.* **38**, 811-19, 1994.
92. Hoffmann, R. Male androgenetic alopecia, *Clin Exper Dermatol.* **27(5)**, 373–382, 2002.
93. Norwood, O.T. Incidence of female androgenetic alopecia (female pattern alopecia), *Dermatol Surg.* **27**, 53-54, 2001.
94. Deplewski, D., & Rosenfield, R.L. Role of hormones in pilosebaceous unit development, *Endocrine. Rev.* **21**, 363–92, 2000.
95. Grino, P.B., Griffin, J.E., & Wilson, J.D. Testosterone at high concentrations interacts with the human androgen receptor similarly to dihydrotestosterone, *Endocrinology* **126**, 1165–72, 1990.
96. Atanaskova, M.N., & Bergfeld, W.F. Female pattern hair loss update: diagnosis and treatment, *Dermatol. Clin.* **31**, 119-27, 2013.
97. Magro, C.M., Bhutani, S.M., Poe, J., Rossi, A., & Sadick, N. The role of inflammation and immunity in the pathogenesis of androgenetic alopecia, *J Drug. Dermatol.* **10**, 1404-1411, 2011.
98. Yip, L., Rufaut, N., & Sinclair, R. Role of genetics and sex steroid hormones in male androgenetic alopecia and female pattern hair loss, *Aus.J. Dermatol.* **52**, 81–88, 2011.
99. Headington, J.T. Telogen effluvium: New concepts and review, *Arch Dermatol.* **129**, 356–363, 1993.

100. Chong, A.H., Wade, M., & Sinclair, R.D. The hair pull test and hair pluck for analysis of hair abnormalities, *Modern Medicine of Australia* **42**, 105-18, 1999.
101. Trüeb, R.M. Diffuse hair loss. In: *Hair Growth and Disorders*, Springer, Berlin, 259-72, 2008.
102. Sperling, L.C. Hair and systemic disease, *Dermatol. Clin.* **19**, 711-726, 2001.
103. Gupta, A.K., & Bluhm, R. *Seborrheic dermatitis*, *J. Eur. Acad. Dermatol. Venereol.* **18**, 13-26, quiz 19-20, 2004.
104. Johnson, B., & Nunley, J. Treatment of *Seborrheic dermatitis*, *Am. Fam. Physic.* **61**, 2703-2710, 2713-2704, 2000.
105. Dawson, T.L. *Malassezia globosa* and restricta: breakthrough understanding of the etiology and treatment of dandruff and seborrheic dermatitis through whole-genome analysis, *J. Invest. Dermatol.* **12**, 15-9, 2007.
106. Ranganathan, S., & Mukhopadhyay, T. Dandruff: The Most Commercially Exploited Skin Disease, *Ind J Dermatol.* **55**(2), 130-134, 2010.
107. Shuster, S. The aetiology of dandruff and the mode of action of therapeutic agents, *Br. J. Dermatol.* **111**, 235-242, 1984.
108. DeAngelis, Y.M., et al. Three etiologic facets of dandruff and *Seborrheic dermatitis*: *Malassezia* fungi, sebaceous lipids, and individual sensitivity, *J. Investigig. Dermatol. Symp. Proc.* **10**, 295-297, 2005.
109. Ro, B.I., & Dawson, T.L. The role of sebaceous gland activity and scalp microfloral metabolism in the etiology of *Seborrheic dermatitis* and dandruff, *J. Investigig. Dermatol. Symp. Proc.* **10**, 194-7, 2005.
110. Schwartz, J.R., Cardin, C.W., DeAngelis, Y.M., & Dawson, T.L. *Textbook of Cosmetic Dermatology*, Baran, R., & Maibach, H.I., eds. 230-241, 2010.
111. Burgess, I.F. Human lice and their control, *Annu. Rev. Entomol.* **49**, 457-481, 2004.
112. Chosidow, O. Scabies and pediculosis, *Lancet* **4**, 819-826, 2000.
113. Pollack, R.J., Kiszevski, A., & Spielman, A. Overdiagnosis and consequent mismanagement of head louse infestations in North America, *Pediatr. Infect. Dis. J.* **19**, 689-693, 2000.
114. Randall, V.A. Is alopecia areata an autoimmune disease? *Lancet* **358**, 1922-1924, 2001.
115. Gilhar, A., & Kalish, R.S. Alopecia areata: a tissue specific autoimmune disease of the hair follicle, *Autoimmun. Rev.* **5**, 64-69, 2006.
116. Wasserman, D., Guzman-Sanchez, D.A., Scott, K., & McMichael, A. Alopecia areata. *Int. J. Dermatol.* **46**, 121-131, 2007.
117. Gregoriou, S., Papafragkaki, D., Kontochristopoulos, G., Rallis, E., Kalogeromitros, D., & Rigopoulos, D. Cytokines and Other Mediators in Alopecia Areata, *Mediators of Inflamm. Article ID 928030*, 1-5, 2010.
118. Petukhova, L., Duvic, M., Hordinsky, M., Norris, D., Price, V., Shimomura, Y., Kim, H., Singh, P., Lee, A., Wei, V.C., Meyer, K.C.,

- Paus, R., Jahoda, C.A.B., Amos,C.I., Gregersen, P.K., & Christiano, A.M. Genome-wide association study in *Alopecia areata* implicates both innate and adaptive immunity, *Nature* **466**, 113-118, 2010.
119. Gilhar, A., Ullmann, Y., Berkutzki, T., Assy, B., & Kalish, R.S. Autoimmune hair loss alopecia areata transferred by T lymphocytes to human scalp explants on SCID mice, *J. Clin. Invest.* **101**, 62–67, 1998.
120. Gilhar, A., et al. Transfer of alopecia areata in the human scalp graft/Prkdcscid SCID mouse system is characterized by a TH1 response, *Clin. Immunol.* **106**, 181–187, 2003.
121. Arca, E., & Kurumlu, Z. Etiopathogenesis, clinical features, and diagnosis in Alopecia areata, *Dermatose* **2**, 83-89, 2003.
122. Birch, M.P., & Messenger, A.G. Genetic factors predispose to balding and non-balding in men, *Eur. J. Dermatol.* **11**, 309–314, 2001.
123. Wolff, H., & Kunte, C.H. Current management of androgenetic alopecia in men, *Eur. J. Dermatol.* **9**, 606–9, 1999.
124. Hoffmann, R. Steroidogenic isoenzymes in human hair and their potential role in androgenetic alopecia, *Dermatol.* **206**, 85–96, 2003.
125. Mehta, P.K., Mamdani, B., Sharsky, R.M., Mahurkar, S.D., & Dunea, G. Severe hypertension. Treatment with minoxidil, *J. Amer. Medical Assoc.* **233**, 249-52, 1975.
126. Olsen, E.A., De-Long, E.R., & Weiner, M.S. Dose-response study of topical minoxidil in male pattern baldness, *J. Am. Acad. Dermatol.* **15**, 30-7, 1986.
127. Rogers, N.E., & Avram, M.R. Medical treatments for male and female pattern hair loss, *J. Am. Acad. Dermatol.* **59**, 547-566, 2008.
128. Abramowicz, M. Propecia and rogaine extra strength for alopecia, *The Medical Letter* **40**, 393, 25–27, 1998.
129. Olsen, E.A. Topical and systemic corticosteroids in Alopecia areata, *Aust. J. Dermatol.* **38**, 20, 1997.
130. Drake, L., et al. The effects of finasteride on scalp skin and serum androgen levels in men with androgenetic alopecia, *J. Am. Acad. Dermatol.* **41**, 550-554, 1999.
131. Roberts, J. L., & Fiedler, V. et al. Clinical dose ranging studies with finasteride, a type 2 5alphareductase inhibitor, in men with male pattern hair loss, *J. Am. Acad. Dermatol.* **41**, 555-563, 1999.
132. Whiting, D.A. Possible mechanisms of miniaturization during androgenic alopecia or pattern hair loss, *J. Am. Acad. Dermatol.* **45**, S81–S86, 2001.
133. Ellis, J.A., Sinclair, R., & Harrap, S.B. Androgenic alopecia: pathogenesis and potential for therapy, *Expert Rev. Mol. Med.* **4**, 1-11, 2002.
134. Leyden, J., Dunlap, F., Miller, & Winters, B.P., et al. Finasteride in the treatment of men with frontal male pattern hair loss, *J. Amer. Acad. Dermatol.* **40**, 930–937, 1999.
135. Price, V.H. Treatment of hair loss, *N. Engl. J. Med.* **341**, 964–973, 1999.
136. Sinclair, R. Male pattern androgenetic alopecia, *BMJ* **317**, 865-869, 1998.

137. Drake, L., et al. The effects of finasteride on scalp skin and serum androgen levels in men with androgenetic alopecia, *J. Am. Acad. Dermatol.* **41**, 550-554, 1999.
138. MIMS Online. Prescribing information, Flutamide, Available from URL: [https://www.mimsonline.com.au/Search/FullPI.aspx?ModuleName=ProductInfo&searchKeyword=Flutamide&PreviousPage=~/Search/QuickSearch.aspx&SearchType=&ID=10260001\\_2](https://www.mimsonline.com.au/Search/FullPI.aspx?ModuleName=ProductInfo&searchKeyword=Flutamide&PreviousPage=~/Search/QuickSearch.aspx&SearchType=&ID=10260001_2). Accessed 11 May 2010.
139. Carmina, E., & Lobo, R.A. Treatment of hyperandrogenic alopecia in women, *Fertil. Steril.* **79**, 91–5, 2003.
140. Shimmer, A., Nathansohn, N., Kaplan, B., Weiss, G., Newman, N., & Trau, H. Treatment of scalp *Seborrheic dermatitis* and psoriasis with an ointment of 40% urea and 1% bifonazole, *Int. J. Dermatol.* **39**, 521-538, 2000.
141. Verma, D.D., Verma, S., McElWee, K.J., Freyschmidt-Paul, P., Hoffman, R., & Fahr, A. Treatment of alopecia areata in the DEBR model using Cyclosporin A lipid vesicles, *Eur J Dermatol* **14**, 332-8, 2004.
142. Garcia, A., Rhoden, S.A., Bernardi-Wenzel, J., Orlandelli, R.C., Azevedo, J.L., & Pamphile, J.A. Antimicrobial Activity of Crude Extracts of Endophytic Fungi Isolated from Medicinal Plant *Sapindus saponaria* L, *J. App. Pharm. Sci.* **2**, 035-040, 2012.
143. McChesney, D.G., Kaplan, G., & Gardner, P. FDA survey determines *Salmonella* contamination, *Feedstuffs*. **67**, 20–23, 1995.
144. Suraj, R., Rejitha, G., Anbu, J., Sunilson, J., Anandarajagopal, K., & Promwichit, P. *In-vivo* hair growth activity of *Prunus dulcis* seeds in rats, *Biol. Med.* **1**, 34-38, 2009.
145. Amrita, B., Kumar, P.U., Suchi, D., Arvind, J., & Bhusan, S.H. Hair growth potential of *Evolvulus Alsinoides* Linn. Plant Extract in albino rats, *Int. Res. J. pharm.* **3**, 314-319, 2012.
146. Farnsworth, N.R., & Soejarto, D.D. Global importance of medicinal plants, In: *Conservation of Medicinal Plants*, Cambridge University Press, Cambridge, UK, 1991.
147. Takahashi, T., Kamiya, T., & Yokoo, Y. Proanthocyanidines from Grape seeds Promote Proliferation of Mouse Hair Follicle cells *In-vitro* and convert Hair cycle *In-vivo*, *Acta Derm. Venereol. Stockh.* **78**, 428-432, 1998.
148. Takahashi, T., Kamiya, T., & Yokoo, Y. Procyanidin oligomers selectively and intensively promote proliferation of mouse hair epithelial cells *in-vitro* and active hair follicle growth *in-vivo*, *J. Invest. Dermatol.* **112**, 310-16, 1999.
149. Takahashi, T., Kamimura, A., Shirai, A., & Yokoo, Y. Several selective protein kinase C inhibitors including procyanidins promote hair growth, *Skin Pharmacol. Appl. Skin Physiol.* **13**, 133-142, 2000.
150. Sasajima, M., & Hotta, Y. Mechanism of hair growth promoting by 3, 4' dimethyl - 3 - hydroxy flavanone. *Eur Hair Growth Soc.* 2003. Available at: <http://www.ehrs.org/conferenceabstracts/2003barcelona/researchposterindex1.htm>.

151. Roh, S.S., Kim, C.D., Lee, M.H., Hwang, S., Rang, M., & Yoonn, Y. The hair growth promoting effect of *Sophora flaavescens* extract and its molecular regulation, *J. Dermatol. Sci.* **30**, 43-49, 2002.
152. Adhirajan, N., Ravikumar, T., Shanmugasundaram, N., & Mary, B. *In-vivo* and *in-vitro* evaluation of hair growth potential of *Hibiscus rosa-sinensis Linn*, *J. Ethnopharmacol.* **88**, 235–239, 2003.
153. Saraf, S., Pathak, A.K., & Dixit, V.K. Hair growth promoting activity of *Tridax procumbens*, *Fito.* **62**, 495–498, 1991.
154. Nandeesh, R., Kumar, B.S.A., Lakshman, K., Khan, S., Swamy, V.B.N., Bharathi, T., & Ganapathy, S. Evaluation of Hair Growth Activity of *Buxus wallichiana Baill* Extract in Rats, *Iran. J. Basic Med Sci.* **11**, 236-241, 2009.
155. Roy, R.K., Thakur, M., Dixit, V.K. Hair growth promoting activity of *Eclipta alba* in male albino rats, *Arch. Dermatol. Res.* **300**, 357-64, 2008.
156. Allayie, S.A., Hemalatha, S., Elanchezhiyan, C., Manoharan, V., Balasubramanian, K., & Sheikh, B.A. *In-vivo* Evaluation of Hair Growth Potential of Fresh Leaf Extracts of *Naringi Crenulata*, *J. Clin. Exp. Dermatol. Res.* **3**, 2, 2012.
157. Won-Seok, P., Chang-Hoon, L., Byeong-Gon, L., & Ih-Seop, C. The extract of *Thujae occidentalis* semen inhibited 5-reductase and androchronogenetic alopecia of B6CBAF1/j hybrid mouse, *J. Dermato. Sci.* **31**, 91–98, 2003.
158. Patni, P., Varghese, D., Balekar, N., & Jain, D.K. Formulation and evaluation of herbal hair oil for alopecia management, *Planta Indica* **2**, 27-30, 2006.
159. Garcia, O.J.C., Tenon, M., & Bellido, J. Contact allergy to henna, *Int. Arch. Allergy Appl. Immunol.* **114**, 298-299, 1997.
160. Roy, R.K., Thakur, M., & Dixit, V.K. Development and evaluation of polyherbal formulation for hair growth-promoting activity, *J Cosmet Dermatol* **6**, 108–112, 2006.
161. Pandit, S., Chauhan, N.S., & Dixit, V.K. Effect of *Cuscuta reflexa* Roxb on androgen-induced alopecia, *J. Cosmet. Derma.* **73**, 199–204, 2008.
162. Purwal, L., Prakash, S., Gupta, B.N., & Pande, M.S. Development and Evaluation of Herbal Formulations for Hair Growth, *E-Journal of Chemistry* **5**, 34-38, 2008.
163. Kobayashi, N., & Suzuki, K.C. Effect of leaves of *Ginkgo biloba* on hair growth in C3H strain mice, *Takagala Zasshi* **113**, 718-24, 1993.
164. Awe, E.O., & Makinde, J.M. The hair growth promoting effect of *Russelia equisetiformis*, *J. Nat. Prod.* **2**, 70-73, 2009.
165. Kameyama, S. Application and consideration of medicinal plants for hair care product, *Frag. J.* **23**, 28-34, 1995.
166. Lee, O.S., Kang, H.H., & Han, S.H. Oriental herbs in cosmetics, *Cosmet. Toiletries* **112**, 57-64, 1997.
167. Campli, E.D., Bartolomeo, S.D., Pizzi, P.D., Giulio, M.D., Grande, R.D., Nostro, A., & Cellini, L. Activity of tea tree oil and nerolidol alone or in combination against *Pediculus capitidis* head lice and its eggs, *Parasitol. Res.* **111**, 1985–1992, 2012.

168. Abdel-Ghaffar, F., Al-Quraishy, S., Al-Rasheid, K.A., & Mehlhorn, H. Efficacy of a single treatment of head lice with a neem seed extract: an *in-vivo* and *in-vitro* study on nits and motile stages, *Parasitol. Res.* **110**, 277–280, 2012.
169. Liu, X., Zhao, M., Wang, J., Yang, B., & Jiang, Y. Antioxidant activity of methanolic extract of emblica fruit *Phyllanthus emblica* L. from six regions in China, *J Food Compos. Analys* **21**, 219–228, 2008.
170. Ganju, L., Karan, D., Chanda, S., Srivastava, K.K., Sawhney, R.C., & Selvamurthy, W. Immunomodulatory effects of agents of plant origin, *Biomed. Pharmacother* **57**, 296-300, 2003.
171. Jayashree, G., Kurup, M.G., Sudarslal, S., & Jacob, V.B. Anti-oxidant activity of *Centella asiatica* on lymphoma-bearing mice, *Fito* **74**, 431-434, 2003.
172. Manosroi, J., Saowakhon, S., & Manosroi, A. Anti-proliferation activities of Thai Lanna medicinal plant recipes in cancer cell lines by SRB assay, *J. Thai trad. Alt. Med.* **6**, 107, 2008.
173. Kawano, M., Han, J., Kchouk, M.E., & Isoda, H. Hair growth regulation by the extract of aromatic plant *Erica multiflora*, *J. Nat. Med.* **63**, 335-339, 2009.
174. Jaybhaye, D., Varma, S.K., Bonde, V., & Gite, A. Effect of *Tectona grandis* Linn. seeds on hair growth activity of albino mice, *Int. J. Ayur. Res.* **1**, 211–215, 2010.
175. Park, S., Shin, W.S., & Ho, J. *Fructus panax ginseng* extract promotes hair regeneration in C57BL/6 mice, *J. Ethnopharma.* **138**, 340–344, 2011.
176. Savali, A.S., Bhinge, S.D., & Chitapurkar, H.R. Evaluation of Hair growth Promoting activity of *Musa paradisiaca* unripe fruit extract, *J. Nat. Pharm.* **2**, 120-124, 2011.
177. Chunekar, K.C., & Hota, N.P. Plants of Bhavprakash, vol 1, National Academy of Ayurveda, New Delhi, 126, 1986.
178. Kritikar, K.R., & Basu, B.D. Chronica Botanica Indian Medicinal plants, New Delhi, 1975.
179. Baishiyou, Ri. Hair tonic. **Japan patent No. JP5201833**, 1993.
180. Cheol, & Ryu, G. Hair-restorer and manufacturing process thereof. **Patent no. KR2004001633**, 2004.
181. Lee, S.K., Ha, B.J., Mun, S.J., Kang, K.S. Hair growth composition. **Patent No. KR950006061B**, 1995.
182. Lee, W.G. Agent for preventing hair loss and stimulating or promoting hair growth using skin of peach. **Patent No. KR20010044451**, 2001.
183. Lee in Geol. Kit for hair growth. **Patent No. KR20040039550**, 2004.
184. Shin, E. Hair growing and beautifying agent. **Japan Patent No. JP2006151934**, 2006.
185. Xiulan, W. Hair growth, beauty-care and health care medicinal liquor and method for preparing same. **Patent No. CN1154250**, 1997.
186. Datta, K., Singh, A.T., Mukherjee, A., Bhat, B., Ramesh, B., & Burman, A.C. *Eclipta alba* extract with potential for hair growth promoting activity, *J Ethnopharmacol.* **124**, 450–456, 2009.
187. Klein, A.D., & Penneys, N.S. Aloe vera, *J. Am. Acad. Dermatol.* **18**, 714-

- 20, 1988.
188. Shelton, R.M. *Aloe vera*: Its chemical and therapeutic properties, *Int. J. Dermatol.* **30**, 679-683, 1991.
  189. Park, Y.N., & Lee, S.K. (edi.) *New Perspectives on Aloe*, Springer-Science & Business Media, New York, USA, 2006.
  190. Inaoka, Y., Fukushima, M., & Kuroda, H. Hair tonics containing aloenin, *Jpn Kokai Tokkyo Koho 3, Japan Patent No. JP63198615*, 1988.
  191. Bayne, C.W., Donnelly, F., Ross, M., & Habib, F.K. *Serenoa repens* (Permixon): a 5alpha-reductase types I and II inhibitor-new evidence in a co-culture model of BPH. *Prostate* **40**, 232–241, 1999.
  192. Hattori, M., & Ogawa, H. Biochemical analysis of hair growth from the aspects of aging and enzyme activities, *J. Dermatol.* **10**, 45–54, 1983.
  193. Upadhyay, S., Ghosh, A.K., & Singh, V. Hair Growth Promotant Activity of Petroleum Ether Root Extract of *Glycyrrhiza Glabra* L (Fabaceae) in Female Rats, *Trop J Pharm Res.* **11 (5)**, 753-758, 2012.
  194. Hynd, P.L., Schlink, A., Phillips, P.M., & Scobie, D.R. Mitotic activity in cells of the wool follicle bulb, *Aus. J. Biol. Sci.* **39**, 329–339, 1986.
  195. Uno, H. Quantitative models for the study of hair growth *in-vivo*, *Annals NY Acad. Sci* **642**, 107–124, 1991.
  196. Prouty, S.M., Lawrence, L., & Stenn, K.S. Fibroblast-dependent induction of a murine skin lesion with similarity to human common blue nevus, *Ame. J. Pathology* **148**, 1871–1885, 1996.
  197. Slominski, A., & Paus, R. Melanogenesis is coupled to murine anagen: toward new concepts for the role of melanocytes and the regulation of melanogenesis in hair growth, *J. Investigig. Dermatol.* **101**, 90S–97S, 1993.
  198. Slominski, A., Paus, R., & Costantino, R. Differential expression and activity of melanogenesis related proteins during induced hair growth in mice, *J. Investigig. Dermatol.* **96**, 172–179, 1991.
  199. Slominski, A., Paus, R., Plonka, P., & Chakraborty, A. Melanogenesis during the anagen-catagen-telogen transformation of the murine hair cycle, *J. Investigig. Dermatol.* **102**, 862–869, 1994.
  200. Paus, R., Stenn S.K., & Link E.R. The induction of anagen hair growth in Telogen mouse skin by Cyclosporin A administration, *Lab. Investigig.* **60**, 365–369, 1989.
  201. Hirai, Y., Takebe K. Method for screening a substance having promoting activity on hair growth, **US Patent no. 0051760A1**, 2002.
  202. Paus, R., Heinzelmann, T., & Schultz, K.D. Hair growth induction by substance P, *Lab. Investigig.* **71**, 134–140, 1994.
  203. Steiner, P., Hamilton, J., & Gregory, S. Pyrrolidine derivative hair growth composition and uses, **US Patent no. 0198250A1**, 2002.
  204. Sredni, B., et al. Hair growth induction by the Tellurium immune-modulator AS101: association with delayed terminal differentiation of follicular keratinocytes and ras-dependent up-regulation of KGF expression, *J. FASEB* **18**, 400–402, 2004.
  205. Park, H. J., Zhang, N. N., & Park, D. K. Topical application of *Polygonum multiflorum* extract induces hair growth of resting hair follicles through upregulating Shh and  $\beta$ -catenin expression in C57BL/6

- mice, *J. Ethnopharmacol.* **135**, 369, 2011.
- 206. Uno, H., & Kurata, S. Chemical agents and peptides affect hair growth, *J. Investig. Dermatol.* **101**, 143-147, 1993.
  - 207. Kim, S.C., Kang, J.I., Park, D.B., Lee, Y.K., Hyun, J.W., Koh, Y.S., Yoo, E.S., Kim, J.A., Kim, Y.H., & Kang, H.K. Promotion Effect of Acankoreoside J, a Lupane-triterpene in *Acanthopanax koreanum*, on Hair Growth, *Arch. Pharm. Res.* **35**, 1495-1503, 2012.
  - 208. Park, P. J., Moon, B. S., Lee, S. H., Kim, S. N., Kim, A. R., Kim, H. J., Park, W. S., Choi, K. Y., Cho, E. G., & Lee, T. R. Hair growth-promoting effect of *Aconiti Ciliare Tuber* extract mediated by the activation of Wnt/β-catenin signaling, *Life Sci.* **91**, 935-943, 2012.
  - 209. Jiang, Z., Xu, J., Long, M., Tu, Z., Yang, G., He, G. 2, 3, 5, 4'-tetrahydroxystilbene-2-O-β-d-glucoside [THSG] induces melanogenesis in B16 cells by MAP kinase activation and tyrosinase upregulation. *Life sci* **85**, 345-350, 2009.
  - 210. Doyle, J. J., & Doyle, J.L. A rapid total DNA preparation procedure for fresh plant tissue, *Focus* **12**, 13-15, 1990.
  - 211. Otto, F. DAPI staining of fixed cells for high-resolution flow cytometry of nuclear DNA. In: Crissman, H.A., and Darzynkiewicz, Z., eds. *Methods in Cell Biology*, Academic Press, New York **33**, 105-110, 1990.
  - 212. Haruna, T.M., Anokwuru, P.C., Akeredolu, A.A., Akinsemolu, A.A., & Alabi, O.A. Antibacterial and Antifungal Activity of *Acalypha wilkesiana*, *Eur. J. Med. Plants* **3**, 52-64, 2013.
  - 213. Brand-Williams, W., Cuvelier, M.E., & Berset, C. Use of free radical method to evaluate antioxidant activity, *Lebensm Wiss Technology* **28**, 25-30, 1995.
  - 214. OECD 2002a. OECD Guideline for Testing of Chemicals—Acute Dermal Irritation, Corrosion, revised version, Guideline No. 404, adopted May 1981.OECD, Rome, Italy.
  - 215. D'Amico, A.V., & Roehrborn, C.G. Effect of 1 mg/day finasteride on concentrations of serum prostate-specific antigen in men with androgenetic alopecia: a randomized controlled trial, *Lancet Oncol.* **8**, 21-5, 2007.
  - 216. De-Villez, & Richard, L. The therapeutic use of topical minoxidil. *Dermatolo. Clinics* **8**, 367 -375 1990.
  - 217. McClellan, K.J., & Markham, A. Finasteride: a review of its use in male pattern hair loss, *Drugs* **57**, 111-26, 1999.
  - 218. Paus, R. Therapeutic strategies for treating hair loss. *Drug Discovery Today: Therapeutic Strategies* **3**, 101–110, 2006.
  - 219. Kanjilal, U.N. & Bor, N.L. Flora of Assam. Omsons Publications. New Delhi, 1939.
  - 220. Panda, H. *Aloe Vera: Handbook on Cultivation, Research Finding, Products, Formulations, Extraction and Processing*, Asia Pacific Business Press Inc., New Delhi, 2003.
  - 221. Towner, P. Purification of DNA. In Essential Molecular Biology Vol. 1, A Practical Approach T. A. Brown, ed., Oxford: IRL Press, 47–68, 1991.

222. Warude, D., Chavan, P., Joshi, K., & Patwardhan, B. DNA isolation from fresh and dry plant samples with highly acidic tissue extracts, *Plant Mol. Biol. Rep.* **21**, 467a-f, 2003.
223. Kawata, M., Matsumura, Y., Oikawa, T., Kimizu, M., Fukumoto, F., & Kuroda, S. Analysis of DNA extraction buffer components from plant tissue by polymerase chain reaction, *Anal. Biochem.* **318**, 314-317, 2003.
224. Pirttilä, A.M., Hirsikorpi, M., Kämäräinen, T., Jaakola, L., & Hohtola, A. DNA isolation methods for medicinal and aromatic Plants, *Plant Mol. Biol. Rep.* **19**, 273 a-f, 2001.
225. Richards, E., Reichardt, M., & Rogers, S. Preparation of genomic DNA from plant tissue. In: Ausubel, F.M., Brent, R., Kingston, R.E., Moore, D.D., Seidman, J.G., Smith, J.A., Struhl, K. eds, *Current Protocols in Molecular Biology*, Wiley-Interscience, New York, 2.3.5-2.3.6, 1994.
226. Puchooa, D. A simple, rapid and efficient method for the extraction of genomic DNA from lychee *Litchi chinensis* Sonn, *Afr. J. Biotechnol.* **3**, 253-255, 2004.
227. Doležel, J., & Bartoš, J. Plant DNA flow cytometry and estimation of nuclear genome size, *Ann. Bot.* **95**, 99-110, 2005.
228. Doležel, J., Kubaláková, M., Paux, E., Bartoš, J., & Feuillet, C. Chromosome-based genomics in the cereals, *Chrom Res.* **15**(1), 51-66, 2007.
229. Johnston, J.S., Bennett, M.D., Rayburn, A.L., Galbraith, D.W., & Price, H.J. Reference standards for determination of DNA content of plant nuclei, *Am. J. Bot.* **86**, 609–613, 1999.
230. Doležel, J., Greilhuber, J., Lucretti, S., Meister, A., Lysák, M.A., Nardi, L., & Obermayer, R. Plant genome size estimation by flow cytometry: Inter laboratory comparisons, *Ann. Bot.* **82**, 17–26, 1998.
231. Baranyi, M., & Greilhuber, J. Flow cytometric analysis of genome size variation in cultivated and wild *Pisum sativum* Fabaceae, *Plant Syst. Evol.* **194**, 231–239, 1995.
232. Baranyi, M., Greihuber, J., & Swiecicki, W.K. Genome size in wild *Pisum* species, *Theor. Appl. Genet.* **93**, 717-721, 1996.
233. Dolezel, J., & Gohde, W. Sex determination in dioecious plants *Melandrium album* and *M. rubrum* using high-resolution flow cytometry, *Cytometry* **19**, 103–106, 1998.
234. Zhang, J.S., & Guo, Q.M. Studies on the chemical constituents of *Eclipta prostrata* L, *Yao-Xue-Xue-Bao* **36**, 34-37, 2001.
235. Lee, M.K., Ha, N.R., Yang, H., Sung, S.H. Kim, G.H., & Kim, Y.C. Antiproliferative activity of triterpenoids from *Eclipta prostrate* on hepatic stellate cells, *Phytomed.* **15**, 775 – 780, 2008.
236. Abdel-Kader, M.S., Bahler, B.D., Malone, S., Werkhoven, M.C., Van-Troon, F., Wisse, J.H., Bursuker, I., Neddermann, K.M., Mamber, S.W., & Kingston, D.G. DNA - damaging steroidal alkaloids from *Eclipta alba* from the Suriname rainforest, *J. Nat. Prod.* **61**, 1202-1208, 1998.

237. Das, B., & Chakravarty, A.K. Ecliptal, a new terthienyl aldehyde from *Eclipta alba*, *Ind. J. Chem.* **30**, 1052-1053, 1991.
238. Zhang, M., Chen, Y.Y., Di, X.H., & Liu, M. Isolation and identification of ecliptasaponin D from *Eclipta alba* L. Hassk, *Yao Xue Xue Bao.* **32**, 633-634, 1997.
239. Upadhyay, R.K., Pandey, M.B., Jha, R.N., & Pandey, V.B. Eclalbatin, a triterpene saponin from *Eclipta alba*, *J Asian Nat. Prod. Res.* **3**, 213-217, 2001.
240. Yahara, S., Ning, D., & Teshihire, N. Six new oleanane triterpene glycosides, eclalbasaponins I-VI isolated from *Eclipta alba* L. Hassk, *Chem. Pharma. Bull.* **42**, 1336-1338, 2006.
241. Rahman, M.S., Chowdhury, R., Chowdhury, M.H., & Mohammad, A.R. Oleanane Glycosides from *Eclipta prostrata*, *Dhaka Univ. J. Pharm. Sci.* **4**(2), 107-111, 2005.
242. Oleszek, W. Alfalfa saponins: structure, biological activity, and chemotaxonomy. In Saponins Used in Food and Agriculture, Waller GR, Yamasaki K eds. Plenum Press: New York, 155–170, 1996.
243. Timbekova, A.E., Isaev, M.I., Abubakirov, N.K. Chemistry and biological activity of triterpenoid glycosides from *Medicago sativa*. In: Advances in experimental medicine and biology, Saponins used in food and agriculture, Plenum Press, New York, **405**, 171–182, 1996.
244. Hostettmann, K., & Marston, A. Saponins, Cambridge University Press, Cambridge, 1995.
245. Tava, A., Oleszek, W., Jurzysta, M., Berardo, N., & Odoardi, M. Alfalfa saponins and sapogenins: isolation and quantification in two different cultivars, *Phytochem. Anal.* **4**, 269–274, 1993.
246. Zehavi, U., & Polacheck, I. Saponins as antimycotic agents: glycosides of medicagenic acid, *Adv Exp Med Biol.* **404**, 535–546, 1996.
247. Jurzysta, M., & Waller, G.R. Antifungal and haemolytic activity of aerial parts of alfalfa *Medicago* species in relation to saponin composition in relation to Saponin composition, *Adv Exp Med Biol.* **404**, 565–574, 1996.
248. Gruiz, K. Fungitoxic activity of saponins: practical use and fundamental principles, *Adv. Exp Med Biol.* **404**, 527–534, 1996.
249. Polacheck, I., Zehavi, U., Naim, M., Levy, M., & Evron, R. Activity of compound G2 isolated from alfalfa roots against medically important yeasts, *Antimicrob. Agents Chemother.* **30**, 290–294, 1986.
250. Fenwick, D.E., & Oakenfull, D. Saponin content of soybeans and some commercial soybean products, *J. Sc. Food Agric.* **32**, 273-278, 1981.
251. Price, K.R., & Fenwick, G.R. The Chemistry and Biological significance of saponins in foods and feeding stuffs, *Int. Rev. Food Sci. Nutr.* **157**, 62, 1990.
252. Just, M.J., Recsio, M.G., Gner, R.M., Cuellar, M.J., Marez, S., Bilia, A.R., & Rios, J. Anti-inflammatory activity of unusual lupane saponins from *Buleurum fruiticescens*, *Planta Med.* **64**, 404-407, 1998.

253. Chao, A.C., Nguyen, J.V., Broughall, M., Recchia, J., Kensil, C.R., Daddona, P.E., & Fix, J.A. Enhancement of intestinal model compound transport by DS-1, a modified Quillaia saponins, *J Pharma. Sci.* **87**, 1395-1399, 1998.
254. Tschesche, R., & Wulff, G. Chemistry and Biology of saponins, *Chem.Org. Naturist* **30**, 461, 1973.
255. Jun, H.K., Park, K.Y., & Jo, J.B. Inhibitory effects of Ginseng saponins on Aflatoxin production in culture, *Chemical Abstracts* **106**, 116-199, 1989.
256. Okubo, K., Kudou, S., Uchida, T., Yoshiki, Y., Yoshikoshi, M., & Tonomura, M. Soyabean saponin and Isoflavaonoids: structure and antiviral activity against Human Immunodeficiency virus *in-vitro*, *ACS Symp. Ser.* **546**, 1994.
257. Arao, T., Udayama, M., Kinjo, J., & Nohara, T. Preventive effects of Saponins from the *Pueraria lobata* root on *in-vitro* immunological liver injury of rat primary hepatocyte cultures, *Planta Med.* **64**(5), 413-416, 1998.
258. Zhang, S., & Hu, Z. Anti-ulcerogenic effects of Ginseng flower saponins in the rat, *Zhongyao Tongbao* **10**, 331, 1985.
259. B K Mehta, Ritu Nigam, Varsha Nigam and Asheesh Singh. Isolation & Antimicrobial Screening of Ten Long Chain Aliphatic Compounds from *Psidium guajava* (Leaves), *Asian J. Plant Sci. Res.*, **2** (3):318-322, 2012,
260. B. K. Dwivedi & B.K.Mehta. Chemical investigation of aliphatic compounds of *Piper betle* (leaf stalk), *J. Nat. Prod. Plant Resour.* , **1** (2): 18-24, 2011.
261. Waller, G.R., Mangiafico, S., & Ritchey, C.R. A Chemical Investigation of *Aloe Barbadensis* Miller, *Proc. Okla. Acad. Sci.* **58**, 69-76, 1978.
262. Hamman, J.H. Composition and Applications of Aloe vera Leaf Gel, *Molecules* **13**, 1599-1616, 2008.
263. Suga, T., Hirata, T., & Tori, K. Structure of aloenin, a bitter glucoside from aloe species, *Chem lett*, 715-718, 1974.
264. Hirata, T., & Suga, T. Structure of aloenin, a new biologically active bitter glucosides from *Aloe arborescens* var. *Natalensis*, *Bull. Chem. Soc. Japan* **51**, 842-849, 1978.
265. Martin-Islan, A., P., Martin-Ramos, D., & Sainz-Diaz, C., I. Crystal Structure of Minoxidil at Low Temperature and Polymorph Prediction, *J Pharm Sci* **97**, 815–830, 2008.
266. Karthikumar, S., Vigneswari, K., & Jegatheesan, K. Screening of antibacterial and antioxidant activities of leaves of *Eclipta prostrata* L, *Sci. Res. Essays* **2**, 101–104, 2007.
267. Bakht, J., Islam, A., & Shafi, M. Antimicrobial Potentials of *Eclipta alba* by Well Diffusion Method, *Pak J Bot.* **43**, 169-174, 2011.
268. Soetan, K.O., Oyekunle, M. A., Aiyeolaagbe, O. O., & Fafunso, M. A. Evaluation of the antimicrobial activity of saponins extract of *Sorghum Bicolor* L. Moench, *African J. Biotechnol.* **5**, 2405-2407, 2006.
269. Osbourne, A.E. Molecules of interest: Saponins in cereals, *Phytochem.* **62**, 1–4, 2003.

270. Avato, P., Bucci, R., Tava, A., Vitali, C., Rosato, A., & Bialy, Z., et al. Antimicrobial activity of saponins from *Medicago* spp.: Structure–activity relationship. *Phytother. Res.* **20**, 454–457, 2006.
271. Ian Edwin Cock. Antimicrobial Activity of *Aloe barbadensis* Miller Leaf Gel Components. *Inter J Microbiol.* **4**, 2007
272. Ahmed, W., Faiyaz,U., Haque, M., & Brancolini, V. *Alopecia universalis* associated with a mutation in the human hairless gene. *Science* **279**, 720–724, 1998.
273. Park MK, Park JH, Kim KH, Shin YG, Myoung KM, & Lee JH. Chemical Constituents of *Aloe capensis* Kor. *J. Pharmacogn.* **26**, 244, 1995.
274. Duri L, Morelli CF, Crippa S, & Speranza G. 6-Phenylpyrones and 5-methylchromones from Kenya aloe. *Fitot.* **75**, 520, 2004.
275. Nikaido, H., & Vaara, M. Molecular basis of bacterial outer membrane permeability. *Microbiol. Rev.* **1**, 1–32, 1985.
276. Kataria, S., Shrivastava, B., Khajuria, R. K., Suri, K.A., & Sharma, P. Antimicrobial activity of *Crotalaria burhia* Buch.-Ham. Root, Ind J Nat Prod Res **1(4)**, 481-484, 2010.
277. Khanna, V. G., & Kannabiran, K. Antimicrobial activity of saponin fractions of the leaves of *Gymnema sylvestre* and *Eclipta prostrata*, *World J. Microbiol. Biotechnol.* **24**, 2737–2740, 2008.
278. Kannabiran, K., Mohankumar,T., & Gunaseker, V. Evaluation of Antimicrobial Activity of Saponin Isolated From *Solanum Xanthocarpum* and *Centella asiatica*, *Int. J. Nat. Eng. Sci.* **3**, 25-28, 2009.
279. Barile, E., Bonanomi, G., Antignani, V., Zolfaghari, B., Sajjadi, S.E., Scala, F., & Lanzotti, V. Saponins from *Allium minutiflorum* with antifungal activity, *Phytochem.* **68**, 596–603, 2007.
280. Keukens, E., Vrije, T., Vanden B.C., Waard, P., Plasman, H., Thiel, F., Chupin, V., Jongen, W., & Kruijff, B. Molecular basis of glycol-alkaloid induced membrane disruption. *Biochim Biophys Acta* **1240**, 216-228, 1995.
281. Zaletova, N., Shchavinskii, A., Tolkachev, O., Vichkanova, S., Fateeva, T., Krutikova, N., Yartseva, I., & Klyuev, N. Preparation of some derivatives of ursolic acid and their antimicrobial activity. *Chemical Abstracts* **106**, 18867e, 1987.
282. Nagata, K., Tapiro, T., Estsuji, H., Noboyasu, E., Shunichi, M., Chikao, & N. Camellidins, antifugal saponins isolated from *Camellia japonica*. *Agric. Biol. Chem.* **49**, 1181, 1985.
283. Rodriguez, R.J., Redman, R.S., & Henson, J.M. Symbiotic lifestyle expression by fungal endophytes and the adaptation of plants to stress: unraveling the complexities of intimacy. In: Dighton, J., Oudemans, P., White, J., eds. *The Fungal Community: Its Organization and Role in the Ecosystem*. Taylor & Francis/CRC Press: Boca Raton, 683–696, 2005.
284. Rosca-Casian, O., Parvu, M., Vlase, L., & Tamas, M. Antifungal activity of *Aloe vera* leaves. *Fito.* **78**, 219-222, 2007.

285. Sumita, S., Sharfuddin, S., Yashodha, D. Effect of *Aloe vera* L. Burm Polysaccharide on various Immune Parameters. *Adv. Res. Pharma. Biol.* **2**, 300-304, 2012.
286. Reynolds, T., & Dweck, A.C. *Aloe vera* leaf gel, A review update. *J. Ethnopharmacol.* **68**, 3-37, 1999.
287. Sahu, B., & Yadav, P. Antioxidant Activity of *Eclipta alba*. *VSRD Int. J. Tech. Non-Tech Res.* **4**, 127-129, 2013.
288. Saritha, V., Anilakumar, K.R., & Khanum, F. Antioxidant and antibacterial activity of *Aloe vera* gel extracts, *Int. J. Pharm. Biol. Arch.* **14**, 376-384, 2010.
289. Ng, T.B., Liu, F., & Wang, Z.T. Antioxidative activity of natural products from plants, *Life Sci.* **668**, 709-723, 2000.
290. Dorman, H.J.D., Kosar, M., Kahlos, K., Holm, Y., & Hiltunen, R. Antioxidant properties of composition of aqueous extracts from *Mentha* species, hybrids, varieties, and cultivars, *J. Agri. Food Chem.* **51**, 4563-4569, 2003.
291. Avila, H., Rivero, J., Herrera, F., & Fraile, G. Cytotoxicity of a low Molecular Weight Fraction from *Aloe vera*: *Aloe Barbadensis Miller* Gel, *Toxic.* **35**, 1423-1430, 1997.
292. Thu, K., Mon, Y.Y., Khaing, T.A., & Tun, O.M. Study on Phytochemical Properties, Antibacterial Activity and Cytotoxicity of *Aloe vera* L, *World Acad. Sci. Eng. Tech.* **77**, 97-101, 2013.
293. Mori, O., & Uno, H. The effect of topical minoxidil on hair follicular cycles of rats. *J. Dermatol.* **17**, 276-81, 1990.
294. Sundberg, J.P., & King, L.E. Mouse models for the study of Human Hair Loss, *Dermatol. Clin.* **14**, 619-632, 1996.
295. Tosti, A., Misciali, C., Piraccini, B.M., Peluso, A.M., & Bardazzi, F. Drug-Induced Hair Loss and Hair Growth, *Drug Safety* **10**, 310-31, 1994.
296. Warnock, J.K. Psychotropic Medication and Drug-Related Alopecia. *Psychosomatics* **32**, 149–152, 1991.
297. Pollers, L. Progress in standardisation in anticoagulant control, *Haemostol Rev.* **1**, 225-4, 1987.
298. Nielson, T.A., & Reichel, M. Alopecia: diagnosis and management. *Am. Fam. Physician.* **516**, 1513-22, 1527-8, 1995.
299. Springer, K., Brown, M., & Stulberg, D.L. Common hair loss disorders. *Am. Fam. Physician* **68**, 93-102 2003.
300. Shapiro, J. Hair Loss in Women, *N. Engl. J. Med.* **357**, 1620-30, 2007.
301. Umlas, J., & Harken, D.E. Warfarin-induced alopecia, *Cutis.* **42(1)**, 63-4, 1988.
302. Pai, G.S., Vimala, A.M., & Dinesh, M. Occurrence and severity of alopecia in patients on combination chemotherapy, *Ind. J. Cancer.* **372-3**, 95-104, 2000.