REFERENCES

- Abhink, J. 1995. Medicinal and Ritual plants of the Ethiopian South-West: an account of recent research. Indigenous knowledge and development monitor. 3(2): 6-8.
- Abebe, D. The role of medicinal plants in health care coverage of Ethiopia, the possible benefits of integration. In proceedings of the national workshop on conservation and sustainable use of medicinal plants in Ethiopia: 28 April – 01 May 1998. Edited by: Medhin Zewdu, Abebe Demissie, Addis Ababa; 2001: 6-21.
- Albert, C.H., Bello, F, Boulangeat, D., Pellet, G., Lavorel, S. and Thuiller, W. 2012. On the importance of intraspecific variability for the quantification of functional diversity. Oikos. 121: 116-126.
- Amutha Priya, T., Manimekalai, V., Ravichandran, P. 2015. Intra specific genetic diversity studies on Calotropis gigantea (L) R. Br. – Using RAPD Markers. European Journal of Biotechnology and Bioscience. 3(4): 7-9.
- Angelstan, P, Donz - Brcuss, M. and Roberge, J.M, (Eds). 2004.Targets and tools for the maintains of forest biodiversity. Ecological Bulletins ,51.
- Anjala, P. and Wang, J.R. 2014. Leaf morphological and stomatal variations in paper birch populations along environmental gradients in Canada. American Journal of Plant Sciences. 5: 1508-1520.
- Antonovics, J. 1976. The nature of limits to natural selection. Annals of the Missouri Botanical Garden. 63: 224-247.
- Archer, S., Smeins, F.E.1991. Ecosystem-level processes. In: Grazing management. An ecological perspective (Heitschmidt R.K., Stuth J.W., eds.) Timber Press, Portsland, Oregon, USA. Pp. 109-139.

- Arnold, M.D., Harry L. 1968. Poisonous Plants of Hawaii. Tokyo, Japan: Charles E. Tuttle Co. pp. 57–58. ISBN 0-8048-0474-5.
- Aryakia, E., Karimi, H.R., Naghavi, M.R., Fazeli, S.A.S. 2016. Morphological characterization of intra and interspecific diversity in some Iranian Wild Allium species. 211(2): 185-200.
- Ashwell, G. 1957. In: Methods in Enzymol. 3(Eds. Colowick, S.P. and Kaplan, N.O.) Academic Press New York.
- Auger, S. and Shipley, B. 2013. Inter-specific and intra-specific trait variation along short environmental gradients in an old-growth temperate forest. Journal of Vegetation Science. 24: 419-428.
- Bahuguna, V.K. 1993. Forestry in eco-development an experience in Jhabua forest division. publication of Regional Centre, National Afforestation and eco development board, IIFM, Bhopal, pp: l-25.
- Baker, H.G.1965. Characteristics and modes of origin of weeds. In the genetics of colonizing species. H.G. Baker, G.L. Stebbins. Eds. New York, Academic Press. Pp. 147-172.
- Baker, H.G.1974. The evolution of weeds. Annual Review of Ecology and Systematics. 5: 1-24.
- Balick, J.M. and Cox, P.A. 1996. Plants, people, and culture: The Science of Ethnobotany New York: Scientific American Library, a division of HPHLP.
- Barbour, M.G., Burk, J.H., Pitts, W.D.1987. Terrestrial plant ecology. Chapter 9: Method of sampling of plant community. Menlo Park, CA: Benjamin / Cummings Publishing Co.

- Barrett, S.C, H. and Richardson, B.J. 1986. Genetic attributes of invading species. In Ecology of Biological Invasions, R. H. Groves and J.J. Burdon, Eds., 21-33.
- Basker, D. and Putievsky, E.1978. Seasonal variation in the yields of herb and essential oil in some Labiatae species. J. of Hort. Science. 53(3): 179-183.
- Bassi P.1990. Quantitative variations of nuclear DNA during plant development. A critical approach. Biological Reviews. 65:185-225.
- Basu, B. H. 2006. Evaluation of nitric acid scavenging activity, in vitro and in vivo and ex vivo of the selected medicinal plants traditionally used in inflammatory diseases. Phyto. Res., 20: 896-900.
- Begun, S., Mohammad, B., Siddiqui, S., Siddiqui, S. 1995. Triterpenoids from the aerial parts of Lantana camara. Jour. Nat. Pro., 58: 1570-1574.
- Behera, S.K. and Misra, M.K. 2006.Floristic and structure of the herbaceous vegetation of four recovering forest stands in the Eastern Ghats of India. Biodiversity and conservation. 15(7): 2263-2285.
- Bennett, M.D., and Smith J.B. 1976. Nuclear DNA amounts in angiosperms. Philos. Trans. Royal Soc. London, Ser. B, 274: 227-274.
- Bhat, D.M. and Murali, K.S.2001. Phenology of understory species of tropical moist forest of western Ghats region of Uttara Kannada district in South India. Curr. Sci. (81): 799- 805.
- Bonnardeaux, J. 1992. The effect of Different Harvesting Methods on the Yield and Quality of Basil Oil in the Ord River Irrigation Area. J. of Ess. Oil Res. 4 Jan-Feb.65-69.

- Boucher, F.C., Thuiller, W., Arnoldi, C., Albert, C. H. and Lavergne, S. 2013. Unravelling the architecture of functional variability in wild populations of Polygonum viviparum L. Functional Ecology 27: 382-391.
- Bradshaw, A.D. 1965. Evolutionary significance of phenotypic plasticity in plants. Advances in Genetics. 13: 115-155.
- Brawerman, G. 1974. In: Methods in Enzymol. 30 (Eds. Moldave and Grossman, L.) Academic Press. New York.
- Bremner, J.M. 1960. Determination of Nitrogen in soil by Kjeldahl Method. The Journal of Agricultural Science. 55 (1): 11-33.
- Briske, D.D.1991. Development morphology and physiology of grasses. In: Grazing management. An ecological perspective (Heitschmidt R.K., Stuth J.W., eds.) Timber Press, Portsland, Oregon, USA. Pp. 85- 108.
- Burdock Root. (http://www.chinesesouppot.com/tag/burdock-root). Chinese Soup Pot. Retrieved 29 May, 2015.
- Buwai, M., Trlica, M.J.,1977. Multiple defoliation effects on herbage yield range species. J Range Manage 30, 164-171.
- CABI Crop Protection Compendium. (2008). Ocimum basilicum datasheet. Available at: http://www.cabi.org/cpc/datasheet/36858. [Accessed 06 November 14].
- Cavallini A, Natali L. 1990. Nuclear DNA variability within Pisum sativum (Leguminosae): cytophotometric analysis. Plant Systematics and Evolution 173: 179-185.
- Cavallini A, Natali L. 1991. Intraspecific variation of nuclear DNA content in plant species. Caryologia 44: 93-107.

- Ceccarelli M, Falistocco E, Cionini PG. 1992. Variation of genome size and organization within hexaploid Festuca arundinacea. Theoretical and Applied Genetics 83: 273-278.
- Ceccarelli M, Minelli S, Felcinelli M, Cionini PG. 1993. Genome size and plant development in hexaploid Festuca arundinacea. Heredity 71: 555-560.
- Ceccarelli M, Minelli S, Maggini F, Cionini PG. 1995, Genomoc size variation in Vicia faba. Heredity 74: 180-187.
- Chadwick, D.J., Marsh, J. 1994. Ethnobotany and the search for new drugs, John Wiley and Sons, Chichester, UK, 178-196.
- Chong, K.Y., Tan, H.T.W. and Corlett, R.T. 2009. A checklist of the total vascular plant flora of Singapore: native, naturalized and cultivated species. Raffles Museum of Biodiversity Research, National University of Singapore, Singapore. 273.
- Choudhury, R., Choudhury, D., De, B.M., Paul, S.B. 2010. Importance of certain tribal edible plants of Tripura. Ind. J Trad Know. 9: 300-302.
- Christine, S.J. and Monica, A.G. 1999. Variation among population of Clarkia unguiculata (Onagraceae) along altitudinal and latitudinal gradients. American Journal of Bot. 86(3): 333-343.
- Cianciaruso, M.V., Batalha, M.A., Gaston, K.J. and Petchey, O.L.2009. Including intraspecific variability in functional diversity. Ecology. 90: 81-89.
- Cionini, P.G. Nuclear D.N.A changes during plant development. Giorn. Bot. Ital., in press.

- Clausen, J. Keck and Hiesey, W.M. 1948. Experimental studies on the nature of species? Environmental response of climate races of Achilea. Carnegie Institute of Washington published 581. Washington, D.C.
- Cortes-Flores, J., Andersen, E., Cornejo-Tenorio, G. and Ibarra- Manriquez, G.2013. Fruiting phenology of seed dispersal syndromes in a Mexican Neotropical temperate forest. For. Ecol. Manage. 289: 445-454.
- Costea, M., Demason, D.A., 2001. Stem morphology and anatomy in Amaranthus L., (Amaranthaceae) – taxonomic significance. Journal of the Torrey Botanical Society. 128: 254-281.
- Costea, M., Waines, G, Sanders, A. 2001a. Structure of the pericarp in some Amaranthus L., (Amaranthacae) species and its taxonomic significance. Aliso 20: 51-60.
- Cox, G.1990. Laboratory manual. Of general ecology 6 th Ed. Dubuque, Iowa: William C. Brown.
- Crick, J.C. and Grime, J.P.1987. Morphological plasticity and mineral nutrient capture in two herbaceous species of contrasted ecology. New Phytologist. 107(2): 403-414.
- Cunningham, A.B. 1993. African medicinal plants: Setting priorities at the interface between conservation and primary health care people and plants working paper I, Paris.
- Dahlgren, J.P., Zeipel, H.V. and Ehrle, N.J. 2007. Variation in vegetative and flowering phenology in a forest herb caused by environmental heterogeneity. Am. J. Botany. 94(9): 1570-1576.

- Dale, V., Joyce, L., Mcnulty, S., Neilson, R., Ayres, M., Flannigan, M., Hanson, P., Irland, L., Lugo, A., Peterson, C., Simberloff, D., Swanson, F., Stocks, B., Wotton, B.2001. Climate change and forest disturbances. Bioscience. 51(9): 723-734.
- D'Amato, F., 1985. Cytogenetics of plant cell and tissue cultures and their regenerates. CRC. Crit. Rev. Plant Sci., 3: 73-112.
- Daniel, J.S. and Anthony, Brown, A.H.D. 1991. Intraspecific variation in population gene diversity and effective population size correlates with the mating system in plants. Population biology. 88: 4494-4497.
- Das, D. 2017. Kansai basin flora at Lalgarh of Binpur-I community development block in Jhargram sub-division of Paschim Medinipur district in West Bengal. IJSART. 3(2): 1-10.
- Datta, S.C., Banerjee, A.K. 1978. Useful weeds of Bengal rice fields. Economic Botany 32: 297-310.
- David F, Cutler TB, Dennis WM and Stevenson. 2008.Plant anatomy: an applied approach, Wiley – Blackwell.
- Danell, K., Bergstom, R., Edenius, L., 1994. Effects of large mammalian browsers on architecture, biomass and nutrients of woody plants. J Mammal 75: 833-844.
- Day, M.D., Wiley, C., Playford, J., Zalucki, M.P. 2003. Lantana- current management, status and future prospects. Australian Centre for International Agricultureal Research, Canberra.
- De-Bello, F., Lavorel, S., Albert, C.H., Thuiller, W., Grigulis, K., Dolezal, J., Janecek, S. et. al. 2011. Quantifying the relevance of intraspecific trait variability for functional diversity. Methods in Ecology and Evolution. 2: 163-174.

- Despande SS, Shah GB, Parmar NS. Antiulcer activity of *Tephrosia purpurea* in rats. Indian J Pharmacol. 2003; 35:168–72.
- Deumling, B. and Clermont, L. 1989. Changes in DNA content and chromosomal size during cell culture and plant regeneration of Scilla siberica: selective chromatin diminution in response to environmental conditions. Chromosoma.97: 439-448.
- Dobson, A.P., Rodriguez, J.P., Roberts, W.M. 2001. Synoptic tinkering: integrating strategies for large scale conservation. Ecological Applications (11): 1019- 1026.
- Donaghy, D.J., Fulkerson, W. J., 1997. The importance of water soluble carbohydrate reserves on regrowth and root growth of Lolium perenne (L.). Grass Forage Sci. 52, 401- 407.
- Duke, N.C.2010. Overlap of eastern and western mabgroves in the South- western Pacific: hybridization of all three Rhizophora (Rhizophoraceae) combinations in New Caledonia. Blumea 55: 171-178.
- Dutta, B.K., Dutta, P.K. 2005. Potential of ethnobotanical studies in North East India: an overview. Indian J of Tradit. Knowl. 4: 7-14.
- Endonela, L.E., Dionisio-Sese, M.L., Altoveros, N.C. Borromeo, T.H. 2015. Phenotypic diversity and taxonomic relationship of Rhizophora species based on morphological markers. JBES, 7(3): 236-243.
- Esparza-Sandoval, S., Alejandra-Iturbide, G, Herrera- Arrieta, Y. 1996. Foliar anatomy and morphology of seeds in some Mexican species of Amaranthus. Phytologia 81: 273-281.
- Ewers, R.M. and Didham, R.K.2006. Confounding factors in the detection of species responses to habitat fragmentation. Biol. Rev. (81): 117-142.

- Ferrer, V., Ferrer, C., Broca, A., Maestro, M., 1997. Efecto desbroce provocado por el Ganado en pastos arbustivos mediterraneous de Genista Scorpius (L.) DC.y Quercus coccifera L. Proc. XXXVII Reunion Cientifica de la SEEP, Sevilla-Huelva, pp. 131-137.
- Foote, M. 1997. The evolution of morphological diversity. Annu. Rev. Ecol. Syst. 28: 129-152.
- Gariglio, N., Weber, M., Casto, D. and Micheloud, N. 2012. Influence of the environmental conditions, the variety and different cultural practices on the phenology of peach in the central area of Santa Fe (Argentina). In Phenology and Climate Change (ed. Zhang, X.), Intech Publication, 217-240.
- Gill, B.S. and Randhawa, G.S.1996. Effect of different transplanting dates and harvesting stages on the quality of French basil oil.J. of Herbs, Spices and Medicinal Plants 4(3): 35-42.
- Godoy, O., Castro- Diez., Valladares, F. and Costa- Tenorio, M. 2009. Different flowering phenology of alien invasive species in Spain: evidence for the use of an empty temporal niche? Plant Biol., 1: 1-9.
- Gokhale, A.B., Saraf, M.N. 2000. Tephrosia purpurea: a review of contemporary literature and medicinal properties. Indian Drugs. 37: 553-560.
- Gokhale, A.B., Dikshit, V.J., Damle, A.S., Kulkarni, Saraf, M.N., Influence of ethnolic exctrat Ra
- Goldsborough, P.B., Ellis, T.H.N., Lomonoss off, G.D. 1982. Sequence variation and methylation of the flax 5S RNA genes. Nucleic Acids Res. 10: 4501-4514.

- Goulart, M.F., Filho, J.P.L. and Lovato, M.B. 2005. Phenological variation within and among populations of Plathymenia reticulata in Brazilian Cerrado, The Atlantic forest and transitional sites. Ann. Bot. 96: 445-455.
- Gratani, L., Covone, F. and .Larcher A 2006 . Leaf plasticity in response to light of three evergreen species of the Mediterranean maquis. Trees structure and function. 20(5): 549-558.
- Greig-Smith, P.1964. Quantitative Plant Ecology. London: Butterworths.
- Gupta, S.C. 1996. Variation in herbage yield, oil yield and major component of various Ocimum species / varieties (chemotypes) harvested at different stages of maturity. J. of Ess. Oil Res. 8: 275-279.
- Hamilton, A. 2003. Medicinal plants and Conservation: issues and approaches London: Panda House, Cattesshall Lane.
- Harrison, S., Grace, J.B., Davies, K.F., Safford, H.D., Viers, J.H.2006. Exotic invasion in a diversity hotspot: disentangling the direct and indirect relationships of exotic cover to native richness in the Californian serpentine flora. Ecology (87): 695-703.
- Hoisington, D., Khairallah, M., Reeves, T., Ribaut, J.M., Skovmand, B., Suketoshi, T., Warburton, M. 1999. Plant genetic resources: what can they contribute toward increased crop productivity? Proc. Natl Acad Sci. 96: 5937 – 5943.
- Houghton, J.T., Meiro Filho, L.G., Callandar, B.A., Harris, N., Kattenberg, A., Maskell, K. (1996). Climate Change 1995: The Science of Climate Change (Cambridge Univ. Press, Cambridge, U.K.).
- Imaizumi, T. and Kay, S.A. 2006. Photoperiodic control of flowering: not only by coincidence. Trends Plant Sci. 11: 550-558.

- Imbert, E.2002. Ecological consequences and ontogeny of seed hetero-morphism. Perspectives in Plant Ecology, Evolution and Systematics. 5: 13-36.
- Ivancich, H.S., Lencinas, M.V., Pastur, G.J.M., Estebanl, R.M.S., Hernandez, L. and Lindstrom, I. 2012. Foliar Anatomical and Morphological variation in Nothofagus pumilio Seedlings under controlled irradiance and soil moisture levels. Tree physiology, 32: 554-564.
- Jackson, M.L. 1967. Soil Chemical analysis, Pentice Hall of India, New Delhi.
- Jain, D.I., Baheti, A.M., Jain, S.R., Khandelwal, K.R. 2010. Use of medicinal plants among tribes in Satpuda region of Dhule and Jalgaon districts of Maharashtra- an ethnobotanical survey. Indian J Trad. Knowled. 9: 152-157.
- Jain, S.K.(ed). 1981.Glimpses of Indian Ethnobotany. Oxford and IBH publishing co: Calcutta.
- Jain, S.K. 1964. The role of botanists in folklore research. Folklore. 5:145-150.
- Jain, S.K., Mudgal, V.1999. A hand book of Ethnobotany. Bishen Singh Mahendra Pal Singh, Dehradun, India,77.
- Jain, S.K. and Rao, RR. 1976. A hand book of field and herbarium methods. Today and Tomorrow Printers and Publishers. New Delhi.
- Jules, J. (1979). Horticultural Science (3rd ed.). San Francisco: W.H. Freeman. Pp. 308. ISBN 0-7167-1031-5.

- Jayaprakash, K., Ayyanar, M., Geetha, K.N., Sekar, T. 2011. Traditional uses of medicinal plants among the tribal people in Theni districts (Western Ghats), Southern India. Asian Pac J Trop Biomed, 1 (suppl 1): 520-527.
- Joshi, V.C. and Janardanam, M.K. 2004. The diversity of life form type, habitat preference and phenology of the endemics in the Goa region of the Western Ghats, India. J. Biogeogr.,31(8): 1227-1238.
- Kadkhodaei, S., Shahnazari, M., Khayyam- Nekouei, M., Ghasemi, M., Etminani, H., Imani, A., Arbakariya, B., Ariff. A.B. 2011. A comparative study of morphological and molecular diversity analysis among cultivated almonds (Prunus dulcis). Australian Journal of Crop Science. 5(1): 82-91.
- Kala, C.P., 2004. Indigenous uses, population density and conservation of threatened medicinal plants in protected areas of the Indian Himalayas. Cons Biol. 19368-19378.
- Kala, C.P. 2005. Current status of medicinal plants used by traditional vaidyas in Uttaranchal State of India. Ethnobot Res Appl. 3: 267-278.
- Kang, M., Chang, S.X., Yan, E.R. and Wang, X.H.2014. Trait variability differs between leaf and wood tissues across ecological scales in subtropical forests. Journal of Vegetation Science. 25: 703-714.
- Keith. D. 2000. Sampling designs, field techniques and analytical methods for systematic plant population surveys. Ecological Management & Restoration. 1(2): 125-139.
- Kenderes, K. and Standover, T. 2003. The impact of forest management on forest floor vegetation evaluated by species traits. Community Ecology.4: 51-62.
- Kight, C. 2012. Effects of Humans on plant biodiversity.

- Killeen, J. T, Jardim.A, Mamani.F, Rojas, N.1998.Diversity, comparision and structure of a tropical semi deciduous forest in the Chiquitania, region of Santa Cruz, Bolivia. Journal of tropical ecology. 14: 803-827.
- Kim, N.M., Kuspira, J., Armstrong, K. and Bhambhani, R. 1993. Genetic and cytogenetic analyses of the A genome of Triticum monococcum. VIII. Localization of r DNAs and characterization of 5S rRNA genes. Genome. 36: 77-86.
- Kitikar, K.R. and Basu, B.D. 1956, 1981. Indian Medicinal Plants. 2nd ed. Allahabad. Lalit Mohan Basu.
- Kleiman, A. 1980. Patients and healers in the context of culture: An exploration of the border-land between anthropology, medicine and psychiatry. Barkley: University of California Press.
- Kleiman, A. 1988. The illness narratives: suffering, healing, and human condition. New York: Basic Books.
- Kleunen, M.V. and Fischer, M. 2007. Progress in the detection of costs of phenotypic plasticity in plants. New Phytologist. 176(4): 727-730.
- Kohler, F., Hamelin, J., Gillet, F., Gobat, J.M., Buttler, A. 2005. Soil microbial community changes in wooded mountain pastures due to simulated effects of cattle grazing. Plant Soil 278 (1-2): 327-340.
- Kudo, G. 1992. Performance and phenology of Alpine herbs along a snow melting gradient. Ecol. Res. 7: 297-304.
- Kupier, D. and Kupier, P.J.C. 1988. Phenotypic plasticity in a physiological perspective. Acta Oecologica plantarum. 9: 43-59.

- Lande, R. 2009. Adaptation to an extraordinary environment by evolution of phenotypic plasticity and genetic assimilation. Journal of Evolutionary Biology. 22(7): 1435-1446.
- Lemberkovics, E., Nguyen, H., Tarr, K., Mathe, I., Petri, G. and Vitanyi, Gy. 1993. Formation of biologically active substances of *Ocimum basilicum* L. during the vegetation period. Acta Hort. 344: 334-346.
- Lemberkovics, E., Petri, G., Nguyen, H. and Mathe, I. 1996. Relationships between essential oil and flavonoid biosynthesis in sweet basil. Acta Hort. 426: 647- 655.
- Lewis, W.H. 1980. Polyploid in species populations. In: Polyploidy, biological relevances, ed. By W.H. Lewis, pp. 103-144, New York-London, Plenum Press.
- Leyden, J.J. 1997. Therapy for Acne vulgaris. The New Eng J Med. 156-1162.
- Le- Roux, M.M., Van. Wyk, B.E., Moteetee, A.N., Tilney, P.M. 2009. An evaluation of molecular and anatomical characters in the genus Crotalaria. S. Afr.J. Bot. 75: 410.
- Linderholm, H.W. 2006. Growing season changes in the last century. Agric. For. Meterol., 137: 1-14.
- Loiseeau, P., Merle, G., 1988. Interet de tres forts chargements en bovins pour I'amelioration de pasturages degrades dans le Massif Central. Fourrages 116, 395- 406.
- Long, E.O. and Dawid, I.B. 1980. Repeated genes in eukaryotes. Annu. Rev. Biochem. 49: 727-764.
- Lowry, O.H., Rosebrough, N.J., Farr, A.L., Randall, R.J. 1951. Protein measurement with the Folin phenol reagent. Journal of Biological Chemistry. 193(1): 265-275.

- Maheswari, J.K., 2000. Ethnobotany and Medicinal plants of Indian Sub-continent. Sci. Publ., Jodhpur, India, 79-108.
- Mandak, B. 1997. Seed heteromorphism and the life cycle of plants: A literature review. Preslia. 69: 129-159.
- Martin, G. 1995. Ethnobotany- A method manual. Chapman and Hill, London, 268.
- Matila, A., Gallardo, M. and Puga- Hermida, M.I. 2005. Structural, physiological and molecular aspects of heterogeneity in seeds: A review. Sered Science Research 15: 63-76.
- Matson, P.A., Parton, W.J., Power, A.G., Swift, M.J., 1997. Science (277): 504-509.
- Medranto, M., Herrera, C.H., and Bazaga, P. 2014. Epigenic variation predicts regional and local intraspecific functional diversity in a perennial herb. Molecular Ecology. 23: 4926-4938.
- Mezghani, N., Amor, J.B., Spooner, D.M., Simon, P.W., Mezghani, N., Boubaker, H., Nazmi, A.M., Rouz. S., Hannachi, C., Neffati, M., Tarchoun, N. 2017. Multivariate analysis of morphological diversity among closely related *Daucus* species and sub species in Tunisia. Genetic Resources and Crop Evolution. pp- 1-15.
- Migdalek, G., Jedrzejczyk-korycinska, M., Rostanski, A., Slomka, A., Kuta, E. 2013. Usefulness of morphological characters in determination of Intra and interspecific diversity of Voilets (Viola L., Violaceae). Modern Phytomorphology (4): 35-36.
- Mitchell, R.M. and Bakker, J.D. 2014. Quantifying and comparing intraspecific functional trait variability: A case study with *Hypochaeris radicata*. Functional Ecology. 28: 258-269.

- Morris J.B. 1997. Special- purpose legume genetic resources conserved for agricultural, industrial and pharmaceutical use. Economic Botany.51(3): 251-263.
- Morris, R.J., Lewis, O.T., Godfray, H.C.J. 2004. Experimental evidence for apparent competition in a tropical forest food web. Nature (428): 310-313.
- Motta, R.1996. Impact of wild ungulates on forest regeneration and tree composition of mountain forests in the Western Italian Alps. Forest Ecol. Manag. (88): 93-98.
- Murthy, M.S.R. and Srinivasan, M. 1993. Hepato protective effect of Tephrosia purpurea in experimental animals. Indian J Pharmacol. 25: 34-36.
- Mwase, W.F., Nathan, K., Manduwa, D., Maliro, M.F.A. 2014. Agro morphological diversity of Amaranthus species in Central Malawi. International J. of AriScience. 4(4): 235-241.
- Naeem, S and Wright, J.P. 2003. Disentangling biodiversity effects on ecosystem functioning: deriving solutions to a seemingly insure-mountable problem. Ecol. Lett., 6: 567-579.
- Nagai A, Duarte LM, Santosh D.Y. 2011. Influence of viral infection on essential oil composition of *Ocimum basilicum* (Lamiaceae). Nat Prod Commun ,6(8):1189-1192.
- Navas, M.L. and Garnier, E.2002. Plasticity of whole plant and leaf traits in Rubia peregrina in response to light, nutrient and water availability. Acta Oecologia. 23(6): 375-383.
- Nobel, I. The use of vital attributes to predict successional changes in plant communities subject to recurrent disturbances.
- Ohri, D. and Kumar, A. 1986. Nuclear MNA amounts in some tropical hardwoods. Caryologia 39: 303-307.

- Pal.D.C. 1980. Observation on folklore about plants used in veterinary medicine in Bengal, Orissa and Bihar, Bull. bot Surv. India. 22: 96-99.
- Pandey. A, Tomar. A. K, Bhandari.D.C, Pareek.S.K.2007.Towards coolection of wild relatives of crop plants in India. Genetic Resources and Crop Evolution. 55(2): 187-202.
- Pegington C and Rees H. 1970. Chromosome weights and measures. Heredity 25:195-205.
- Pelter, A., Ward, R.S., Rao, E.V., Raju, N.R. 1981. 8- Substituted flavonoids and 3-substituted 7- oxygenated chalcones from *Tephrosia purpurea*. J Chem Society. 1: 2491.
- Perez- Harguindeguy, N., Diaz, S., Garnier, E., Lavorel, S., Poorter, H., Jaureguiberry, P., Bret- Harte, M.S., et.al. 2013. New hand book for standardized measurement of plant functional traits worldwide. Australian Journal of Botany. 61: 167-234.
- Pimm, S.L., Russell. G.J., Gittleman, J.L., Brooks, T.M.1995. Science (269): 347-350.
- Prain, D.1963. Bengal plants, vols I-II, Botanical Survey of India. Kolkata.
- Pramono, E, 2002. The commercial use of traditional knowledge and medicinal plants in Indonesia. Multi-Stakeholder dialogue on Trade, Intellectual property and biological resources in Asia, BRAC Centre for development Management: April 19-21, Rajendrapur, Bangladesh, 2002: 1-13.
- Preston, Pearman, and Dines. 2002. New Atlas of the British flora. Oxford University Press.
- Price HJ. 1988a. Nuclear DNA content variation within angiosperm species. Evolutionary Trends in Plants 2: 53-60.

- Price, T.D., Qvarnstrom, A. and Irwin, D.E. 2003. The role of phenotypic plasticity in driving genetic evolution., proceedings of the Royal Society B. Biological Sciences. 270: 1433-1440.
- Price, H.J. 1976. Evolution of DNA content in higher plants. Bot. Rev., 42: 27-52.
- Price HJ.1988 b. DNA content variation among higher plants. Annals of the Missouri Botanic Garden 75: 1248-1257.
- Prince HJ.1991. Genome stress, genome size and plant adaptation. commentary to chapter 9(B)In: Taylor GE, Pitelka, L.F., Clegg, M.T., eds. Ecological genetics and air pollution. New York: Springer Verlag,277-287.
- Pringle, L.1979. Natural Fire: its Ecology in Forests. William Morrow and Company, New York. 22-25.
- Quammen. D. 1998. Planets of Weeds. (PDF). Harper's Magazine, retrived November, 15, 2012.

http://sep.csumb.edu/class/ESSP645/readings/Quammen%201998.pdf.

- Rahman, H., Kashifudduja, M., Syed, M., Salahuddin, M. 1985. Hypoglycemic activity of *Tephrosia purpurea* seeds. Indian J Med. Res. 81: 418.
- Raina S.N, Srivastava P.K, Rama Rao S. March 1986. Nuclear DNA variation in Tephrosia. Genetica (69):27-33.
- Raina, S.N. and Rees, H. 1983. DNA variation between and within chromosome complements of Vicia species. Heredity, 51: 335-346.

- Ramirez, N. and Briceno, M.2011. Reproductive phenology of 233 species from four herbaceous and shrubby communities in great savanna plateau of Venezuela. AOB Plants, 2011, 1-17; doi: 10.1093/aobpla/plr014.
- Ranganathan, R., Lakshmi, R.V., Parameswari, P. 2012. Ethnomedicinal survey of Jawadhu hills in Tamil Nadu. Asian J Pharm Clin Res. 5: 45-49.
- Rathcke, B. and Lacey, E.P. 1985. Phenological patterns of terrestrial plants. Aannu. Rev. Ecol. Syst. 16: 179-214.
- Risberg, L. and Granstorm, A. 2009. The effect of timing of forest fire on phenology and seed production in the fire- dependent herbs, *Geranium bohemicum* and *Geranium lanuginosum* in Sweden. For. Ecol. Manage. 257: 1725-1731.
- Roberts, J., Jackson, N., Smith, M. 2006. Tree roots in the built environment. ISBN 978-0117536203.
- Roder, M.S., Sorrells, M.E., and Tanksley, S.D. 1992. 5S ribosomal gene clusters in wheat: pulsed field gel electrophoresis reveals a high degree of polymorphism. Mol. Gen. Genet. 232: 215-220.
- Ross, I.A.1999. Medicinal plants of the World. Chemical constituents, traditional and modern medicinal uses. New Jersey, Human Press.
- Sabiiti, E.N. and Wein, R.W. 1991. Effects of fire intensity and browsing by goats on the dynamics of Acacia encroachment in rangelands of Uganda. Proc. IVth International Rangeland Congress, CIRAD, Montpellier, France. Pp. 860-861.
- Sadasivam. S and Manickam. A. 2008. Biochemical Methods, New Age International (P) Limited, Publishers.

- Sajem, A.L. and Gosai, K. 2006. Traditional use of medicinal plants by the Jaintia tribes in North Cacher Hills district of Assam, northeast India. J Ethnobiol Ethnomed. 2: 33.
- Sala, O.E., et. al. 2000. Global biodiversity scenarios for the year 2100. Science (287): 1770-1774.
- Samson, M.L. and Wegnez, M. 1988. Bipartite structure of the 5S ribosomal gene family in a Drosophila melanogaster strain, and its evolutionary implications. Genetics. 118: 685-691.
- Sastri, B.N. 1962. The wealth of India. Vol-V, New Delhi, Council of Scientific and Industrial Research.
- Saxena, R.C., Dixit, O.P., Harsttan, V. 1992. Insecticidal action of Lantana camera against *Callosobruchus chinensis* (*Coleoptera bruchidae*). Jou. Stored. Pro. Res., 53: 230-235.
- Schlichting, C.D. 2002. Phenotypic plasticidy in Plants. Plant Species Biology. 17 (2-3): 85-88.
- Schneeberger, R.G. and Cullis, C.A. 1992. Intraspecific 5SrRNA gene variation in flax. *Linum usitatissimum* (Linaceae). Plant Syst. Evol. 183: 265-280.
- Schneider, W.C. 1957. Determination of Nucleic acids in tissues by Pentose analysis. In methods in Enzymology (Vol. 3), Colowick, S.P., and Kaplan, N.O., Eds. 781.
- Schnelle, F. 1955. Pflanzenphanologie. Geest & Portig, Leipzing, Germany.
- Schultes, R.E. 1962. The role of ethnobotany in search of new medicinal plants. Lioydia. P: 25257.

- Schwartz, M.W., Thorne, J.H., Viers, J.H. 2006. Biotic homogenization of the California flora in urban and urbanizing regions. Biological Conservation (127): 282-291.
- Scott, J.M., Davis, F.W., McGhie, R.G., Wright, R.G., Groves, C, Estes, J. 2001. Nature reserves: do they capture the full range of America's biological diversity? Ecological Applications (11): 999-1007.
- Seabloom, E.W., Dobson, A.P., Stoms, D.M. 2002. Extinction rates under nonrandom patterns of habitat loss. Proceedings of the National Academy of Sciences (USA) 99: 1129-1234.
- Sides, C.B., Enquist, B.J., Ebersole, J.J., Smith, M.N., Henderson, A.N. and Sloat, L.L. 2014. Revising Darwin's hypothesis: Does greater intraspecific variability increase species' ecological breadth? American Journal of Botany. 101: 56-62.
- Singh, K.P. and Kushwaha, C.P. 2006. Diversity of flowering and fruiting phenology of trees in a tropical deciduous forest in India. Ann. Bot., 97: 265-276.
- Singh K. P, Raina S. N, Singh A. K, 1996.variation in chromosomal DNA associated with the evolution of Arachis species. Genome 39:890-897.
- Singh, U., Lahiri, N.2010. Ancient India: new research. New Delhi: Oxford University Press.
- Sinha B, Natu A.A, Nanavati D.D. Prenylated flavonoids from *Tephrosia purpurea* seeds. Phytochemistry. 1982; 21:1468–70.
- Slomka, A., Jedrzejczyk-korycinska, M., Rostanski, A., Karcz, J., Kawalec, P., Kuta, E.2012. Heavy metals in soil affect reproductive processes more than morphological characters in *Viola tricolor*. Envron. Exp. Bot. 75: 204-211.

- Soliman. M. S. A, Shedeed, Z. A. and Soliman. M. M. 2018. Morphological, biochemical and DNA barcoding characteristics for some *Lantana* L. cultivars growing in Egypt. Tropical Plant Research. 5(2): 207-216.
- Sousa, W.1984. The role of disturbance in natural communities. Annual Review of Ecology and systematics.15: 353-391.
- Srivastava, R. 2015. Assessment of morphological diversity of selected Amaranthus Species. Journal of Global Bioscience 4(8): 3044-3048.
- Tandon, HLS. 1993. Method of analysis of soils, plants, water and fertilizers. Fertilizer Development and Consultation Organization 204-204A. Bhanot Corner, 1-2 Pamposh Enclave, New Delhi 110048 (India).
- Tarshis, G.I., Tarshis, L.G. 1987. Characterization of structural adaptation of below-ground organs under various ecological conditions. Proc.I All- Union conference on ecological anatomy of plants, pp 85-86. FAN, Tashkent, USSR.
- Tilman, D., May, R.M., Lehman, C.L., Nowak, M.A.1994. Nature (London) 371: 65-66.
- Tilman, D.1999. Proc. Natl. Acad. Sci. USA.96, 5995-6000.
- Tilman, D. 2001. Functional diversity. In S. Levin [ed.], Encyclopedia of biodiversity, 3: 109-120. Academic Press, Waltham, Masachusetts, U.S.A.
- Tran, T. (2011). Basil Diseases. Cornell University Department of Plant Pathology and Plant-Microbe Biology. Available at: http://plantclinic.cornell.edu/factsh.... [Accessed 06 November 14].
- Tribedi, P.C. and Sharma, N.K. 2004. Ethnomedicinal Plants. Pointer Publishers, Jodhpur, India. 70.

- Tsiouvaras, C.N., Havlik, N.A., Bartolome, J.W.1989. Effects of goats on understory vegetation and fire hazard reduction in a coastal forest in California. For Sci. 35, 1125-1131.
- Turesson, G. 1922. The species and diversity as ecological units. Hereditas,3: 100-113.
- Turesson, G. 1922. The Geno- typical response of the plant species to the habitat. Hereditas,3: 211-350.
- United Nations University Institute of Advanced Studies (UNU-IAS). Payyappallimana, U., Fadeeva, Z., editors. 2013. Traditional Knowledge and Biodiversity. Yokohama, Japan: UNU-IAS; 8-9.
- Verma, R.K. and Verma, S.K. 2006. Phytochemical and termiticidal studies of *Lantana camara var aculeata* leaves. Fitoterapia 77: 466-468.
- Via, S., Gomulkiewicz, R., Jong, G. De., Schiener, S.M., Schlichting, C.D. and Tienderen, P.H. Van. 1995. Adaptive phenotypic plasticity: consensus and controversy. Trends in Ecology and Evolution. 10(5): 212-217.
- Via, S. and Lande, R. 1987. Evolution of genetic variability in a spatially heterogenous environment: effects of genotype-environment interaction. Genetical Research. 49(2): 147-156.
- Viers, J.H., Thorne, J.H., Quinn. J.H.2006. Caljep: a spatial distribution data base of Calflora and Jepson. San Francisco Estuary and Watershed Science 4.

(http// repositories.cdlib.org/jmie/sfews/vo14/issl/artl/).

- Violle, C., Enquist, B.J., Mcgili, B.J., Jiang, L., Albert, C.H., Hulshop, C., Jung, V. et. al. 2012. The return of the variance: Intraspecific variability in community ecology. Trends in Ecology & Evolution. 27: 244-252.

- Vitousek, P.M., 1994. Ecology (75): 1861-1876.
- Vitousek, P.M., Mooney, H.A., Lubchenco, J., Melillo, J.M.1997. Science (277): 494-499.
- Wang, L., Wang, D.L., Liu, J., Huang, Y., Hodgkinson, K.C. 2011. Diet selection variation of a large herbivore in a feeding experiment with increasing species numbers and different plant functional group combinations. Acta Oecol. 37(3): 263-268.
- Wang M.L., Mojidis J.A., Morris J.B., Dean RE, Jeankins and Pederson GA. 2006. Genetic diversity of Crotalaria germplasm assessed through phylogenetic analysis of EST-SSR marker. Genome 49: 707-715.
- Weeds Australia (http://www.weeds.org.au/cgi-bin/weedident.cgi?Tpl=plant.tpl&iba=all&card=T04) Black Willow.
- Wells, C. L. and Pigliucci, M. 2000. Adaptive phenotypic plasticity: The case of heterophylly in aquatic plants. Perspectives in Plant Ecology. Evolution and Systematics.3: 1-18.
- Wielgolaski, F. E. 2001. Phenological modifications in plants by various edaphic factors. Int. J. Biometeorol., 45: 196- 202.
- Whitham, T.G., Maschinski, J., Larson, K.C., Paige, K.N.1991. Plant responses to herbivory: the continuum from negative to positive and underlying physiological mechanisms. In: Plant animal Interactions: Evolutionary Ecology in Tropical and Temperate Regions (Price, L.P.W., Fernandes, G.W., Benson, W.W., eds.). John Wiley & sons, NY, USA, pp. 227- 256.

- Whitilock, R., Grime, J.P., Burke, T. 2010. Genetic variation in plant morphology contributes to the species level structure of grassland communities. Ecology 91 (5): 1344- 1354.
- WHO.2013. WHO traditional medicine strategy 2002-2005, Geneva: World Health Organization. Online available from: http://www.who.int/medicines/publications/traditionalpolicy/en/index.htm.
- Williams, J.W., Post, D.M., Cwynar, L.C., Lotter, A.F., Levesque, A.J. 2002. Rapid and widespread vegetation responses to past climate change in the North Atlantic region. Geology (30): 971-974.
- Williams, J.W., Seabloom, E.W., Slayback, D., Stoms, D.M., Viers, J.H.2005. Anthropogenic impacts upon plant species richness and NPP in California. Ecology Letters (8): 127-137.
- Willard, E.E., Mckell, C.M.1973. Simulated grazing management systems in relation to shrub growth responses. J Range Manage 26, 171-174.
- Zamir, D. and Tadmor, Y. 1986. Unequal segregation of nuclear genes in plants. Bot. Gaz., 147: 355-358.
- Zotz, G., Wilhhem, K. and Becker, A. 2011. Heteroblasty- A review. Botanical Review. 77: 109-151.