

Education

Ph. D. University of Agricultural Sciences, Bangalore, India, 1983 M.Sc. (Agri.) in Genetics & Plant Breeding, UAS, Bangalore, 1979 B.Sc (Agri.), University of Agricultural Sciences, Bangalore, 1976.

Experience

37+

Total academic service

Since 1983

23+

Professor

Since 1997

2

Dean Post Graduate Studies

2013 - 2015

3

National Advisor, IBIN

2017- Present

Current Position:

- National Adviser, Indian Bioresource Information Network
- (National project unde DBT, GOI, New Delhi)
- School of Ecology and Conservation, UAS GKVK Bengaluru.

Honors/Recognitions/Awards

- **Fulbright Fellow** (1991), USA
- **Fellow, Indian Academy of Sciences**, Bangalore (Since 1991)
- **Fellow, Indian National Science Academy**, New Delhi (Since 1997)
- **Fellow, National Academy of Agricultural Sciences**, New Delhi. (Since 2004)
- **Fellow Current Science Association**, Bangalore.
- **Honorary Senior Fellow**, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, (1995-)

- **Senior Fellow** Ashoka Trust for Research in Ecology and Environment, Bangalore, India.
- **Parisara Prashasthi**, (Karnataka State Environment Award) from the Department of Forest Ecology and Environment, Govt of Karnataka, India (1997).
- **Karnataka Sahitya Academy Datti Award** 2008 for the Kannada novel (*Kanakamusuku*) (2009)
- **The Ryutaro Hashimoto APFED Award, Gold Prize** for promoting ingenious use of a plant invasive, *Lantana camara*, by **Asia Pacific Forum for Environment & Development** , Japan, 2009
- *Kannada Sahitya Parishath (Kolar District)* Honorary President, 2014
- **Vocational Excellence Award** by Rotary Club of Bangalore Yelahanka, 2008
- **Tejaswi puraskara** by **Tejaswi Abhimana Balaga, Pandavapura**

Administrative Experience

A. Dean Post Graduate Studies, University of Agricultural Science, GKVK Bengaluru

During the tenure as Dean, he was instrumental in the following:

- **Science Week** for PG Students. This was an innovative new development that has attracted the interest of the students and the practice is now being adopted in other Agri Universities of the state. This also helped students to hasten the process of publication
- **Computerization of PG registration, coursed and thesis handling** This substantially reduced the logistic difficulties of students while registering, submission of the thesis, and post submission process
- **Introduction of paper presentation seminars to Ph.D. and MSc students:** This process helped students learn the rigors of research, become aware of work done across the disciplines, and also helped improving their research programme

B. Institution Building:

- Established the **School of Ecology and Conservation**, a multi-disciplinary research unit at the University of Agricultural Sciences, Bangalore.
- Established a world-renowned research organization, '**Ashoka Trust for Research in Ecology and the Environment (ATREE)**' dedicated to conservation, ecology and environment

C. Coordinating Research Programs and Heading the Department

- Served as Principal Scientist, All India Co-ordinated Research Project on Underutilized Plants, UAS, Bangalore (1989-2003)
- Served as Principal Scientist, All India Co-ordinated Research Project on Chickpea, UAS, Bangalore. 2003-2008
- Serving as Head, Department of Forestry & Environmental Sciences, UAS, Bangalore since 2009.

D. Organizing National Level Research Teams and Programs

- Has been involved in organizing National Teams and coordinating the work among them for mapping Bio-rich areas of the country,
- Western Ghats (6 Teams from five states)
Eastern Ghats (12 teams from five states)
East Himalayan region (12 teams from 7 states) and,
Andaman and Nicobar Islands (4 teams from A and N Islands).
- Over a period of six years, 34 such teams have been technically coordinated for mapping programs sponsored by DBT, GOI, New Delhi.
- Lead a Multi-institutional team on a National program on Indian Bioresource Information Network involving 150 scientists from over 20 organizations for compiling knowledge base on Biological resources of the country.

E. Organizing International and National Symposia

International Symposia

Tropical Ecosystem and Human Livelihood

Pollination in Tropics

GIS and Remote sensing for mapping Land Use and Land Cover Change

Intra- regional collaboration in Taxonomy for conserving biodiversity in Southeast Asia.

National Symposia / Workshops

Workshop on Pollination and Dispersal Ecology.

Workshop on Species Recovery Programs

Workshop of Mapping Ecosystem Services.

Workshop on Mapping and Enumerating Bioresources of Western Ghats

Editorial Board and Other Services

Serving as Editorial Committee Member, Current Science, a prestigious international science journal of the country.

Member, Editorial Committee of the following journals,

- International journal of Phyto Morphology
- Myforest

Has been serving as referee for a wide range of National and Inter-national journals

Visiting Professor

Outside India:

NPST University PingTung, Taiwan (2008-2009) (Invited as a visiting scientist for three months).

Institute of Tropical Agriculture (2016), University of Kassel, Germany, (Invited as Ela Bhat Professor for three months to deliver talks in different universities in Germany and to offer a course on Agro-ecology and Agro ecosystems).

Institute of Tropical Agriculture (2019), University of Kassel, Germany, (as visiting professor to offer a course on Agro-Biodiversity, ecology and Agro ecosystems).

In India:

Vardhaman University, Department of Botany, Vardhaman University, West Bengal. (2012)

Member of Government Committees / National Task Forces/ Selection Committees:

International working group on *Dipterocarps*, Pondicherry, India (since 1995)

Expert Committee on Medicinal and Aromatic Plants, CSIR, Govt of India

Research Council, Dept. of Forests, Ecology and Environment, Govt. of Karnataka (since 1994)

Expert Panel, Research Advisory Committee, Rubber Research Institute of India, Kottayam, Kerala (since 1996)

Member, Executive Board, Ashoka Trust for Research in Ecology and the Environment, Bangalore (since 1996)

Expert Committee, Central Silk Board, Bangalore (since 1995)

Research Advisory Council, Salim Ali Centre for Ornithology and Natural History, Coimbatore (since 1994)

Member, Programme Advisory Committee (Animal Behavior and Ecology), Dept. of Science and Technology, Govt. of India (1991 1994)

Member, Management Advisory Committee (Young Scientist), Dept. of Science and Technology, Govt. of India (1992-1998)

Expert Committee on Eastern and Western Ghats, Ministry of Environment and Forests, Govt of India.

Life Member, International Union for the study of Social Insects – Indian Chapter, UAS, Bangalore

Founder Member, Ecology and Natural Resource Unit, UAS, Bangalore

Life Member, Ethological Society of India.

Founder TRUSTEE, Ashoka Trust for Research in Ecology and Environment, Bangalore, India

Member, Marine Coastal Ecology, East Coast under the scheme “Ministry of Ocean Development (MoOD).

Associate Member, National Institute of Advanced Studies, IISc, Bangalore.

Research Advisory Council Member, SERIBIOTECH, Bangalore (1993)

Member, Expert group on Application of Biotechnology for Biodiversity Conservation, NBDB, DBT, GOI, New Delhi.

Member, Western Ghats Task Force, Ministry of Environment and Forests, GOI, New Delhi

Member, Task Force for Rejuvenating BSI and ZSI, constituted by Ministry of Environment, GoI. (2009-10)

Chairman, for establishing a web portal for Karnataka Bioresources by KSCST, GoK, Bangalore (since 2008)

Member, Task Force on setting up web portal for ‘National Biodiversity Information System (NBIS)’ by National Biodiversity Authority, GoI, Chennai (2010)

Member, Biodiversity Board, Orissa (since 2010)

Member, Biodiversity Board, Karnataka (2005-2007)

Academic Contributions

Dr. Ganeshiah’s contributions are in the following areas:

Development of varieties/Technology

- Developed and released new plant varieties
- Three varieties in chickpea
- One variety in grain Amaranth
- Developed new genotypes, to be released
- Three genotypes chickpea (HIR series)

- One variety in ricebean
- Developed new technology for
- Integrated pest management in chickpea
- Conceived and developed
- A high-input package of practices for pulses
- Conceived and developed
- A new technique of nipping for increasing yields in pulses

Contribution to knowledge base

- Developed a National Database on Bioresources of India.
- Developed Database on plant resources of Global Hotspots and Bio-rich areas of India (Western Ghats and Eastern Ghats; released by Shri Prithvi Raj Chavan, Hon. Minister for Science and Technology) Feb 2010.
- Developed an Image Managing System for herbarium and field images of plants of India
- Developed a website to host databases on bioresources of India (www.ibin.co.in) released by Sri. Kapil Sibal, Hon. Minister for Science and Technology) July 2006

Developed Taxonomic Identification Kits for

- Rattans,
- Butterflies
- Phyllanthus and
- Sesbanias

Contributions to Novel Concepts in Science

- Sexual selection and gamete competition in plants
- Parent-Offspring conflict in plants
- Self-organization of resource flow in plants
- Self-organization in animal behaviour
- Evolution of insect-plant interactions
- Patterns and processes of distribution of biodiversity
- New tools for mapping and measuring biological diversity

- Inventorized at a very fine scale, plant resources of the most important bio-rich areas of India Viz., Western Ghats, Eastern Ghats, Eastern Himalayas, and Andaman and the Nicobar Islands

Contributions to Education and Capacity Building

Master's and Ph.D. students Guided / Advised

M Sc: 10 + 34

Ph D: 5 + 25

New Courses Added

Prof. K. N. Ganeshiah has added two new courses for the post graduate students when he was teaching at the Department of Genetics and Plant Breeding. These were purely based on his own work in the respective areas

- Evolution and Population Genetics
- Plant Reproductive Strategies
- GIS and Remote Sensing

List of talks Delivered: Has delivered over 1000 talks in India and abroad

Research Projects

As Principal Investigator: 24 projects worth 12.91 crores

As CO-PI: 20 projects worth 5.18 crores

Contribution to Kannada Literature

Prof Ganeshiah has pioneered a new style of writing novels and short stories in Kannada that seamlessly mixes facts and fiction in the form of thrillers. Through this style, his writings have captured a new generation of readers in Kannada contributing to the growth of story writing in Kannada.

Though an agriculture scientist, his novels and stories bring to the reader, the lesser-known and hidden facts of history along with science. Some of his novels are also aimed at bringing the most complicated elements of science to the general reader.

Recognizing the novelty in the style of writing, he was awarded

Kannada Sahitya Academy Datti Award for his novel *Kanaka Musuku*, which combines both history and science. As some experts have inferred, his thrillers have drawn a large number of new readers to Kannada.

In recognition of his novel contribution to Kannada Literature, Prof Ganeshiah has also been honored with the Honorary President of Kolar District Sahitya Parishat during 2013

Prof Ganeshiah has written Nine novels, and 41 short/long stories (in eight collections) and over 63 essays in the areas related Science and Society. His recent book **Sasya Sagga** on the wonders of **plant life** as told through his own journey in the field of botany and evolution has attracted your readers. Several of his novels and stories were serialized in Kannada Weekly Magazines

Contribution to Literature (Kannada)

Authored Nine Novels

Kanakamusaku– Science fiction with historical theme

(Translated to Sanskrit)

Karisiriyana– Historical fiction

Kapilipisara– Science fiction

Chitadanta– Historical fiction

ELu RottigaLu – Historical fiction

Mukha Dhatu– Science Fiction

Shilakula Valase– Historical fiction

Belli Kaala Balli– Historical fiction

Rakta Sikta Ratna Historical fiction

Authored seven short story collections

Shalabhanjike (A collection of eight short stories)

Padmapani (A collection of eight short stories)

Nehala (A collection of eight short stories)

Sigiriya (A collection of three novellettes)

Kaldavasi (A collection of three novelettes)

Mihirakula (A collection of four novelettes)

Perinithandava (A collection of four novelettes)

AaryaVeerya (A collection of three novelettes)

Authored four Essay collections:

Bhinna Bhimba (A collection of 6 essays on religion, arts, science and history)

Bhinnota (A collection of 23 essays on evolution of human behavior)

Vi-Charana (A collection of 20 essays on evolution and Human culture)

Taru Maru (A collection of 8 essays)

Hora nOta (A collection of 9 essays)

Sasya Sagga: My journey through the mysteries of plant life (**Vruthi Kathana**)

Four of the short stories are staged as dramas and one short story is adapted for a movie.

One 25 episode TV serial **Kaala Garbha** on Archeology and history.

Started a fortnightly Column `Vi-Chaarana`– in a Kannada daily *Kannada Prabha* (Since 12th July 2015).

Summary of Publications, Products, and other outputs

| Details | Numbers |
|--|----------------|
| <i>Scientific Articles</i> | 212 |
| <i>Scientific Books Edited/Written</i> | 11 |
| <i>Papers in Books + Proceedings+ Popular articles</i> | 65 |
| <i>CDs Prepared</i> | 11 |
| Sub Total | 299 |
| Kannada Literature | |
| <i>Novels</i> | 8 |
| <i>Vruththi Kathana</i> | 1 |

| | |
|---------------------------------------|--------------------------------------|
| <i>Short Stories</i> | 41 |
| <i>Other Articles / Essays</i> | (in 8 short story collection titles) |
| | 63 |
| | (in 5 Essay collection titles) |
| Sub Total (Kannada Literature) | 113 |
| Total | 412 |

COMPLETE LIST OF PUBLICATIONS OF PROF GANESHAIAH, K.N.

SCIENTIFIC JOURNALS

1. Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1980, Evolutionary significance of pollen to ovule ratio - A study in some pulse crops. *Sci.*, **49**: 244-245
2. **Ganeshaiyah, K.N.**, Uma Shaanker, R. & Udaya Kumar, M., 1980, Solar energy utilization efficiency in cereals and dicots an approach based on energy consumed. *Indian J. Exp. Biol.*, **18**: 700-702
3. Shashidhar, H. E., Hiremath, S. R., Shivashanker, G., **Ganeshaiyah, K.N.**, and Chandrasekharaiah. S.C., 1980, A new device to measure the relative horizontal spread in horsegram. *Res.*, **9**: 83-84
4. **Ganeshaiyah, K.N.** & Uma Shaanker, R., 1981, Auto-parasitization of leaves in pulses - N limiting or C limiting? *Sci.*, **50** (21): 942-944
5. **Ganeshaiyah, K.N.**, Shivashanker, G. & Hiremath, S.R., 1982, Genetic variability for yield and other characters in germplasm of horsegram (*Dolichos biflorus* Linn). *Mysore J. Agri. Sci.*, **16** : 400 - 403
6. Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1982, Evolutionary significance of economy in the pollen grain to ovule ratio in the process of crop domestication. *Indian Natl. Sci. Acad.*, **B 48** (3): 354-360
7. **Ganeshaiyah, K.N.** & Uma Shaanker, R., 1982, Evolution of reproductive behavior in the genus Eleusine. *Euphytica.*, **31**: 397-404
8. Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1984, Age-specific sex ratio in a monoecious species *Croton bonplandianum* *New Phytol.*, **97**: 523-531
9. Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1984, Does pollination efficiency shape the pollen grain to ovule ratio? *Sci.*, **53(14)**: 751-753
10. **Ganeshaiyah, K.N.** & Belvadi, V.V., 1986, Habitat segregation in four species of adult tiger beetles (Coleoptera: Cicindelidae). *Ent.*, **11**: 147-154

11. **Ganeshiaiah, K.N.**, Uma Shaanker, R. & Shivashanker, G., 1986, Stigmatic inhibition of pollen grain germination - its implication for frequency distribution of seed number in pods of *Leucaena leucocephala* (Lam) de Wit. ***Oecologia (Berlin)***, **70**: 568-572
12. Vasudeva, R. Vinayak, K., **Ganeshiaiah, K.N.** & Uma Shaanker, R., 1987, Sex-ratio variations in *Acalypha fruticosa* Forsk along plant height and altitude. ***Indian Acad. Sci. (Plant Sciences)***, **97** (1): 11-15
13. **Ganeshiaiah, K.N.** & Uma Shaanker, R., 1988, Regulation of seed number and female incitation of mate competition by a pH-dependent proteinaceous inhibitor of pollen grain germination in *Leucaena leucocephala*. ***Oecologia (Berlin)***, **75**: 110-113
14. Uma Shaanker, R. & **Ganeshiaiah, K.N.**, 1988, Bimodal distribution of seeds per pod in *Cesalpinia pulchermia* - Parent- offspring conflict? ***Trends in Plants.***, **2** (2): 91- 98
15. **Ganeshiaiah, K.N.** & Veena, T., 1988, Plant design and non-random foraging by ants on *Croton bonplandianum* (Euphorbiaceae) ***Anim. Behav.***, **36**: 1683-1690
16. **Ganeshiaiah, K.N.** & Uma Shaanker, R., 1988, Evolution of unique seed maturity pattern in *Croton bonplandianum* Baill strengthens ant-plant mutualism for seed dispersal. ***Oecologia.***, **77**: 130-134
17. **Ganeshiaiah, K.N.** & Uma Shaanker, R., 1988, Seed abortion in wind-dispersed pods of *Dalbergia sissoo*: maternal regulation or sibling rivalry? ***Oecologia.***, **77** : 135-139
18. Uma Shaanker, R., **Ganeshiaiah, K.N.** & Bawa, K.S., 1988, Parent -Offspring Conflict, sibling rivalry and brood size patterns in plants. ***Rev. Ecol. Syst.***, **19**: 177-205
19. Veena, T., Kumar, A.R.V. & **Ganeshiaiah, K.N.**, 1989, Factors affecting ant (Formicidae: Hymenoptera) visits to the extra floral nectaries of *Croton bonplandianum* ***Proc. Indian Acad. Sci. (Animal Sci.)***, **98** (1): 57-64
20. Uma Shaanker, R. & **Ganeshiaiah, K.N.**, 1989, Sexual advantage. ***Nature.***, **337** : 413-414
21. Uma Shaanker, R. & **Ganeshiaiah, K.N.**, 1989, Stylar plugging by fertilized ovules in *Kleinhovia hospita* (sterculeaceae) – A case of vaginal sealing in plants. ***Trends in Plants.***, **3** (1): 59-64
22. Bawa, K.S., Hegde, S.G., **Ganeshiaiah, K.N.** & Uma Shaanker, R., 1989, Embryo and seed abortion in plants. ***Nature.***, **342** : 625-626
23. Uma Shaanker, R., **Ganeshiaiah, K.N.** & Radhamani, T.R., 1990, Association among the modes of pollination and seed dispersal-ecological factors and phylogenetic constraints. ***Trends in plants.***, **4** (2): 107-111
24. **Ganeshiaiah, K.N.**, 1990, Ant-Plant mutualism. ***IUSSI Newsletter.***, **4** (1): 3-4

25. **Ganeshaiyah, K.N.**, 1990, How ants explore the unknown? *IUSSI Newsletter*, **4** (2): 2-3
26. Veena, T. & **Ganeshaiyah, K.N.**, 1991, Non-random search patterns of ants foraging on the honeydew of aphids in cashew inflorescences. *Behav.*, **41**: 7-15
27. **Ganeshaiyah, K.N.**, & Uma Shaanker, R. 1991, Floral sex ratios in monoecious species-Why are trees more male-biased than herbs? *Sci.*, **60** (5): 319-321
28. **Ganeshaiyah, K.N.** & Uma Shaanker, R., 1991, Seed size optimization in a wind dispersed tree *Butea monosperma*: a trade-off between seedling establishment and pod dispersal efficiency. *OIKOS.*, **60**: 3-6
29. Hegde, S.G., Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1991, Fruit preference criteria by avian frugivores: their implications in the evolution of clutch size in *Solanum pubescens*. *OIKOS.*, **60**: 20-26
30. **Ganeshaiyah, K.N.** & Veena, T., 1991, Topology of the foraging trails of *Leptogenoys processionalis* - why are they branched? *Ecol. Sociobiol.*, **29**: 263-270
31. Hegde, S.G., Lokesha, R., **Ganeshaiyah, K.N.** & Uma Shaanker, R. 1991, Seed size distribution in plants : an explanation based on fractal geometry. , **62** (1) : 100-101
32. **Ganeshaiyah, K.N.**, Uma Shaanker, R. & Joshi, N.V., 1991, Evolution of polyembryony: consequences to the fitness of mother and offspring. *Genet.*, **70** (2): 103-127
33. Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1991, Gene wars. *Sci.*, **61** (7): 440
34. Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1991, More Gene wars. *Sci.*, **61** (7): 795
35. Hegde, S.G., Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1991, Evolution of seed size in the bird-dispersed tree *Santalum album* : A trade off between seedling establishment dispersal efficiency. *Evol. Trends in plants.*, **5** (2): 131-135
36. Lokesha, R., Hegde, S.G., Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1992, Dispersal mode as a selective force in shaping chemical composition of seeds. *Nat.*, **140** (3): 520-525
37. **Ganeshaiyah, K.N.** & Uma Shaanker, R., 1992, Frequency distribution of seed number per fruit in plants: A consequence of self-organizing process? *Sci.*, **62** (4): 359-365
38. **Ganeshaiyah, K.N.**, 1992, Has the behavior of stock market been affected by scam? - a statistical analysis. *Sci.*, **63** (7): 345-347
39. Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1992, Biological control programmes- time to retrospect. *Sci.*, **63** (12): 732-734
40. Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1993, Pollination biology in India - surveying the past. *Sci.*, **65** (3): 195-198

41. Bawa, K.S., Uma Shaanker, R. & **Ganeshiaiah, K.N.**, 1993, Pollination Biology in Tropics *Sci.*, **65** (3): 191-192
42. **Ganeshiaiah, K.N.** & Uma Shaanker, R., 1993, Foraging decisions by plants- Making a case of plant ethology. *Sci.*, **65** (5): 371-372
43. Joshi, N.V., Uma Shaanker, R. & **Ganeshiaiah, K.N.**, 1993, The 'neighbor effect' and its role in shaping the positional pattern of seed development in fruits: an illustration from the pods of *Erythrina suberosa*. *Sci.*, **65** (3): 234-238
44. Radha, M.R., Vasudeva, R., Hegde, S.G., **Ganeshiaiah, K.N.** & Uma Shaanker, R., 1993, Components of male gametophytic competition in *Vigna unguiculata* *Evol. Trends in plants.*, **7** (1) : 29-36
45. **Ganeshiaiah, K.N.** & Uma Shaanker, R., 1994, Seed and fruit abortion as a process of self organization among developing sinks. *Physiologia Plantarum.*, **91** : 81-89
46. **Ganeshiaiah, K.N.**, 1994, Darwin and Newton: Portraits of similar strokes. *Sci.*, **67** (12): 975
47. Lohitashwa, H.C., Kulkarni, R.S. & **Ganeshiaiah, K.N.**, 1994, Genetic divergence in indigenous collection of grain Amaranth. *J. Pl. Genet. Resources.*, **7** (1) : 119-122
48. Ravishankar, K.V., Uma Shaanker, R. & **Ganeshiaiah, K.N.**, 1995, War of hormones over resource allocation to seeds : Strategies and counter-strategies of offspring and maternal parent. *Biosci.*, **20** (1) : 89-103
49. **Ganeshiaiah, K.N.**, 1995, Are patterns a rule in nature? *Sci.*, **68** (7): 680-682
50. Uma Shaanker, R., **Ganeshiaiah, K.N.** & Krishnamurthy, K.S., 1995, Development seeds as self-organizing units : Testing the predictions. *J. Pl. Sci.*, **156** (5): 650-657
51. **Ganeshiaiah, K.N.**, Vasudeva, R., & Uma Shaanker, R., 1995, Development of sinks as an autocatalytic feed-back process: a test using the asymmetric growth of leaves in mestha (*Hibiscus cannabinus*. L.). *Bot.*, **76**: 71-77
52. Prarthana Kathuria, **Ganeshiaiah, K.N.**, Uma Shaanker, R. & Vasudeva, R., 1995, Is there dimorphism for style lengths in monoecious figs? *Sci.*, **68** (10): 1047-1049
53. Prarthana Kathuria & **Ganeshiaiah, K.N.**, 1995, Fig-Pollinator interactions: Evolutionary tug of war? *Botanica.*, **45**: 7-10
54. **Ganeshiaiah, K.N.**, Prarthana Kathuria., Uma Shaanker, R. & Vasudeva, R., 1995, Evolution of style-length variability in figs and optimization of ovipositor length in their pollinator wasps: a coevolutionary model. *Genet.*, **74** (1&2) : 25-39

55. Mohan Raju, B., Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1995, Differential rates of seed abortion among trees of *Dalbergia sissoo* Role of post-dispersal sibling competition. **Sci.**, **68** (11): 1114-1118
56. **Ganeshaiyah, K.N.**, 1995, Fungus that feeds on petrol. **Sci.**, **69** (7): 563
57. Mohan Raju, B., Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1995, Seed abortion in a wind dispersed tropical tree *Dalbergia sissoo*: basic patterns. **Malaysian Forester.**, **58** : 3 97-110
58. **Ganeshaiyah, K.N.** and Anindya Sinha, 1995, Animal welfare. **Sci.**, **69** (4): 283
59. **Ganeshaiyah, K.N.**, 1996, Core-satellite hypothesis and the distribution of species: Why are species not found everywhere? **Sci.**, **70** (5): 340-342
60. Uma Shaanker, R. & **Ganeshaiyah, K.N.**, 1996, Polyembryony in plants: A weapon in the war over offspring numbers? **Trends in Ecol. Evol.**, **11** (1) : 26
61. Uma Shaanker, R., Ravishanker, K.V., Hegde, S. G. & **Ganeshaiyah, K.N.**, 1996, Does endosperm reduce intra-fruit competition among developing seeds? **Plant Systematics & Evolution.**, **201**: 263-270
62. Arathi, H.S., **Ganeshaiyah, K.N.**, Uma Shaanker, R. & Hedge, 1996, Factors affecting embryo abortion in *Syzygium cumini* (L) skeels (Myrtaceae). **J. Pl. Sci.**, **157** (1) : 49-52
63. **Ganeshaiyah, K.N.**, 1996, Global errors in Science: Traps of Chance and Prejudice **Sci.**, **71** (3): 170-172
64. Mohan Raju, B., Uma Shaanker, R., **Ganeshaiyah, K.N.** & Bawa, K.S., 1996, Intra-fruit seed abortion in a wind dispersed tree, *Dalbergia sissoo* Roxb: proximate mechanisms. **Sex plant Reprod.**, **9** : 273-278
65. Murali KS., Shankar U., Shaanker R.U., **Ganeshaiyah KN.**, Bawa KS. 1996. Extraction of non-timber forest products in the forests of Biligiri Rangan Hills, India. 2. Impact of NTFP extraction on regeneration, population structure, and species composition. **Economic Botany**, 50(3): 252–269.
66. Uma Shankar, Murali, K.S., Uma Shaanker, R., **Ganeshaiyah, K.N.** & Bawa, K.S., 1996, Extraction of Non-timber forest products in the forests of Biligiri Rangan Hills, India. 3. Productivity, extraction and prospects of sustainable harvest of Amla, *Phyllanthus emblica* (Euphorbiaceac) **Economic Botany.**, **50** (3) : 270-279
67. **Ganeshaiyah, K.N.** 1996, The Ever-ready pollen. **Sci.**, **71** (8): 595
68. **Ganeshaiyah, K.N.**, 1996, Plant as communicators. **Sci.**, **71** (4): In this issue
69. Uma Shaanker, **K. N. Ganeshaiyah**, Ravikanth, and Kamaljit S. Bawa. Mapping genetic diversity of rattans in the central western ghats: Identification of hot-spots of

variability for in-situ conservation, **Forest Genetic resources: Status and conservation strategies**. Pp 69-83

70. **Ganeshiaiah, K.N.**, 1997, How much water a tree drinks? *Sci.*, **72** (3): 1 (In this issue)
71. Uma Shaanker, R. and **Ganeshiaiah, K.N.**, 1997, Conflict between parent and offspring in plants: Predictions, processes and evolutionary consequences *Sci.*, **72** (12): 932-939
72. **Ganeshiaiah, K.N.**, Chandrashekara, K. & Kumar, A.R.V., 1997, Avalanche index: A new measure of biodiversity based on biological heterogeneity of the communities. *Sci.*, **73** (2): 128-133
73. Uma Shaanker, R., & **Ganeshiaiah, K.N.**, 1997, Mapping genetic diversity of *Phyllanthus emblica*: Forest gene banks as a new approach for *in situ* conservation of genetic resources. *Sci.*, **73** (2): 163-168
74. **Ganeshiaiah, K.N.**, Uma Shaanker, R., & Bawa, K.S., 1997, Diversity of species assemblages of islands: Predictions and their test using tree species composition of shola fragments. *Sci.*, **73** (2): 188-194
75. **Ganeshiaiah, K.N.**, 1997, Cow's face in Krishna's belly, style in the corolla tube and the Panglossian Paradigm. *Sci.*, **73** (3): 225-227
76. Uma Shaanker, R., Ravishankar, K.V., **Ganeshiaiah, K.N.**, 1997, Why do plants possess laxatives? *Sci.*, **73** (8): 646-647
77. Krishnamurthy, K.S., Uma Shaanker, R. & **Ganeshiaiah, K.N.**, 1997, Seed abortion in an animal dispersed species, *Syzygium cuminii* (L.) Skeels (Myrtaceae): The chemical basis. *Sci.*, **73** (10): 869-873
78. **Ganeshiaiah, K.N.**, and Uma Shaanker R., 1997, why do plants possess medicinal properties? Amruth(August):20-22
79. **Ganeshiaiah, K.N.**, 1997, Darwinian guile. . . or a Panglossian style?. *Sci.*, **73** (7): 557-558
80. Gadgil, M., **Ganeshiaiah, K.N.** and R. Uma Shaanker, 1997, Biodiversity of Western Ghats, Special issue, *Sci.*, **73** (2) : In this issue
81. **Ganeshiaiah, K.N.**, Uma Shaanker, R., Murali, K.S., Uma Shankar and Bawa, K.S., 1998, Extraction of Non-Timber Forest Products in the forest of Biligiri Rangan Hill, India. **5**: Influence of dispersal mode on species response to anthropogenic pressures. *Economic Botany.*, **52** (3) : 316-319
82. Gore, A.P., S.A. Paranjape, **Ganeshiaiah K.N.** and R.Uma Shaanker, 1998, Seed size optimization in multiovulated plants. International Journal of Ecology and Environmental Sciences, 23: 209-216.

83. **Ganeshiaiah, K.N.**, 1998, Haldane's God and the honored beetles: The cost of a quip. *Sci.*, **74** (8) : 656-660
84. Uma Shaanker, R., **Ganeshiaiah, K.N.**, Murali, K.S., Uma Shankar and Bawa, K.S., 1998, Extraction of Non-Timber Forest Products in the forest of Biligiri Rangan Hill, India. Impact on floristic diversity and population structure in a thorn scrub forest. *Economic Botany*, **52** (3): 302-315
85. **Ganeshiaiah, K.N.**, 1998, We need taxonomists not taxa-namists. *Sci.*, **75** (5): 412
86. **Ganeshiaiah, K.N.**, Uma Shaanker, R., Ganeshan, R., and Meera, C., 1998, A taxonomic hurdle and hurdled by taxonomists: *Amruth* (August)3-8
87. Mustak Ali, T.M., **Ganeshiaiah, K.N.**, 1998, Mapping Diversity of ants and root grubs, Special Issue. *Sci.*, **75** (3): 201-204
88. **Ganeshiaiah, K.N.**, Uma Shaanker, R., 1998, Contours of conservation – A national agenda for mapping biodiversity, Special Issue. *Sci.*, **75** (3): 292-298
89. Murali, K.S., Siddappa Setty, R., **Ganeshiaiah, K.N.**, and Uma Shaanker, R., 1998, Does forest type classification reflect spatial dynamics of vegetation? An analysis using GIS techniques. *Sci.*, **75** (3): 220-227
90. **Ganeshiaiah, K.N.**, and Uma Shaanker, R., 1998, Sensing and mapping of biological resources for conservation. *Sci.*, **75** (3): This issue
91. **Ganeshiaiah, K.N.**, Terminal truth about terminator gene? *Curr. Sci.*, **75** (12) In this issue
92. **Ganeshiaiah, K.N.**, Uma Shaanker, R., and Bawa, K.S., 1999, *In situ*, conservation of major FGR in the Western ghats, India. *Forgen News.*: 17-18
93. **Ganeshiaiah, K.N.**, 1999, Measuring transpiration in plants. *Sci.*, **76** (11): 1410
94. Arathi, H.S., **Ganeshiaiah, K.N.**, Uma Shaanker, R., and Hegde, S.G., 1999, Seed abortion in *Pongamia pinnata* (Fabaceae). *J. Bot.*, **86** (5): 659-662
95. **Ganeshiaiah, K.N.**, Uma Shaanker, R., and Prarthana Kathuria, 1999, Does optimal packing of flowers in syconia shape the style length variation in monoecious figs? *Biotropica.*, **31** (2): 115-123
96. Prarthana Kathuria, Jaco M. Greff, Steve G. Compton and **Ganeshiaiah, K.N.**, 1999, What fig wasp sex ratios may or may not tell us about sex allocation strategies. *OIKOS.*, **87**: 1-10
97. **Ganeshiaiah, K.N.**, The kumbha melas of science: Time to kill (them). *Curr. Sci.*, **77** (6): 739-741

98. **Ganeshaiyah, K.N.**, Kumar, A.R.V. and Chandrashekara, K., 1999. How much should the Hutchinson ratio be and why? *OIKOS* 87 (1): 201-203
99. **Ganeshaiyah, K.N.**, and Uma Shaanker, R. 1999. Planning Conservation Strategies. *GIS@development*, September-October (III) Issue 5: 67-69
100. Andani Gowda., **Ganeshaiyah, K.N.**, Rangaswamy, M., and Suresh Babu, V. 1999. Correlation and regression studies in Grain Amaranthus. *Curr Res.*, 28: 121-122
101. **Ganeshaiyah, K.N.**, 1999."Flower power!": Sexual conflict, sibling rivalry, family strife". New Scientist.,No.2168.Pp:22-26.
102. **Ganeshaiyah, K.N.** 2000, In search of QTL's. *Sci.* 77 (2): 115-116
103. Shibu, M.P., **Ganeshaiyah, K.N.**, Lalitha Anand., Ravishankar, V., and Uma Shaanker, R., 2000. Identification of sex-specific DNA markers in the dioecious tree, nutmeg (*Myristica fragrans* Houtt.) *Plant Genetic Resources Newsletter.*, 121: 59-61
104. Ravikanth, G., Uma Shaanker, R., and **Ganeshaiyah, K.N.**, 2000. Conservation status of forests in India: a cause for worry? *Indian Inst. Sci.*, 80: 591-600
105. Dhanapal, G.N., **Ganeshaiyah, K.N.** Competitive interaction between two weeds: Water hyacinth (*Eichhornia crassipes* [Mart.] Solms.) and Alligator weed (*Alternanthera philoxeroides* [Mart.] Griseb.). *Mysore J.Agric.Sci.*, 34 : 121-124
106. **Ganeshaiyah, K.N.**, Chandrashekara, K. Uma Shaanker,R. and A.R.V.Kumar. 2000. Phylogenetics: An over-nourished tree? *Sci.*, 79 (5): 560-562
107. Uma Shaanker. R., **Ganeshaiyah, K.N.**, and Bawa. K.S., 2000. Underlying processes governing genetic differentiation in the Western Ghats. *IPGRI FGR Research highlights.*, 20-22
108. C., **Ganeshaiyah, K.N.**, Nageswara Rao, M., Uma Shaanker R., and Swaminath, M.H., 2000. Conservation of sandal genetic resources in India: I extraction patterns and threats to sandal resources in Karnataka. *My Forest.*, 36 (2) : 125-132
109. Shivaraj, B. **Ganeshaiyah, K.N.**, Narayani Barve., Kiran M.C., and Uma Shaanker, R., Mapping forests based on their biological diversity to identify the conservation sites: a case study from Udupi and South Canara districts of Karnataka. *Indian Inst. Sci.*, 80: 531-536
110. **Ganeshaiyah K N** and R Uma Shaanker, 2000. Measuring biological heterogeneity of forest vegetation types: avalanche index as an estimate of biological diversity. [Biodiversity & Conservation](#), 9: 953–963
111. **Ganeshaiyah, K.N.**, An unscientific way to bury astrology. *Curr. Sci.*, 80 (6) : 719-720

112. Uma Shaanker, R and **Ganeshiaiah K.N.** In *situ* conservation of FGR. **IPGRI FGR Research highlights.**, 16-17.
113. Uma Shaanker, R., 2001. Data mining and Knowledge discovery. Emerging fashions in science. **Curr, Sci**, **80**:603-604.
114. **Ganeshiaiah, K.N.**, Uma Shaanker, Padmini, S., and Nageswara Rao, M., 2001. Genetic diversity of *Phyllanthus emblica* in tropical forests of South India: Impact of Anthropogenic Pressures. **Journal of Tropical Forest Science.**, **13** (2) : 297-310
115. Uma Shaanker, R., **Ganeshiaiah, K.N.**, and M. Nageswara Rao, 2001. Genetic diversity of Medicinal plant species in deciduous forest of South India: Impact of harvesting and other anthropogenic pressures. **Journal of Plant Biology.**, **28** (1) :91-97.
116. **Ganeshiaiah, K.N.**, Whipping astrology – a science crime. **Curr. Sci.**, **81** (2): 145-146
117. Mohana, G.S., **Ganeshiaiah, K.N.**, Uma Shaanker, R., and Dayanandan, S., 2001. Genetic relatedness among developing seeds and intra fruit seed abortion *Dalbergia Sissoo* (Fabaceae). **American Journal of Botany.**, **88** (7): 1181-1188.
118. Mohan Raju, B., **Ganeshiaiah N.** and R. Uma Shaanker., 2001. Paternal parents enhance dispersal ability of their progeny in a wind-dispersed species, *Tecoma stans* L. **Curr Sci.**, **81** (1): 22-24
119. **Ganeshiaiah, K.N.**, and Uma Shaanker, R., 2001. Sexual Selection in Plants: the Process, Components and Significance, **Proc. Indian natn Sci Acad.**, **B67** (6): 423-432
120. **Ganeshiaiah, K.N.**, 2001, Pollen competition as a plant breeding tool to realize vigorous progeny testing the feasibility in *Dianthus chinensis* Linn. **J. Genet. & Breed.**, 55:119-123.
121. **Ganeshiaiah, K.N.**, Uma Shaanker, R. and Kamaljit S.Bawa., Conservation of forest genetic resources of a region: Combining Species centered and ecosystem based approaches. **Forest Genetic resources: Status, and conservation strategies.** Pp 273-281
122. Sagar Kathria, S., and **Ganeshiaiah, K.N.**, 2002. Tectonic activities shape the spatial patchiness in the distribution of global biological diversity. **Curr Sci.**, **82** (1): 76-81
123. **Ganeshiaiah, K.N.**, Sagar Kathuria and Uma Shaanker, R. 2002. Floral resources of Karnataka: A Geographic perspective, **Curr Sci.**, **83**(7):810-813.

124. Gowda,H., Vasudeva. R., Mathachen, G.P., Uma Shaanker, R. and **Ganeshaiiah, K.N.** 2002 Breeding types in *Nothapodytes nimmoniana*: An important medicinal tree. ***Curr Sci.***, **82**(9): 1077-1078
125. Bawa,K., Rose, J., **Ganeshaiiah, K.N.**, Barve,N., Kiran, M.C. and Uma Shaanker, R. 2002. Assessing biodiversity from Space: an Example from the Western ghats, India. ***Conservation Ecology***. 6(2):7.
126. Aravind, N.A., Barve, N., Uma Shaanker, R., Poulsen, J. and **Ganeshaiiah, K.N.** 2002. 'Mapping human induced threat to a sanctuary, India', ***ETFRN News***, 36:41-43
127. G., **Ganeshaiiah, K.N.**, and uma Shaanker, R., 2002. Identification of hot spots of species richness and genetic variability in rattans: an approach using geographical information system (GIS) and molecular tools. ***Plant Genetic Resources Newsletter.***, 132:17-21
128. K., **Ganeshaiiah, K.N.**2003. AICRP programme: In need of rebirth? ***Curr Sci.***, 85(2):1-5.
129. **Ganeshaiiah, K.N.**, Barve,N., Nilima Nath, Chandrachevara, K.,Swamy,M., and Uma Shaanker,R., 2003. Predicting the potential geographical distribution of the sugarcane wooly aphid using GARP and DIVA-GIS. ***Curr Sci.***, 85(2):1-5.
130. **Ganeshaiiah, K.N.** Book and video reviews, ***conservation and Society***, 1,1
131. **Ganeshaiiah, K.N.** Book and video reviews, ***conservation and Society***, 1,1
132. Ravikanth G., R Vasudeva., Uma Shaanker. R. and **Ganeshaiiah, K.N.** 2004. Molecular analysis of *Semecarpus Kathalekanensis* (Anacardiaceae) – A newly described species from Myristica Swamps of weatern Ghats, India. ***The Indian Forester***. **130**(1): 101-104
133. Uma Shaanker, R., Aravind, N.A and **Ganeshaiiah, K.N.** Forest management for conservation. ***Genetics and genetic resources***: 215-223
134. Aravind N.A., Uma Shaanker. R. and **Ganeshaiiah, K.N.** Croak, Croak, Croak: Are there more frogs to be discovered in the western ghats? ***Curr Sci.***, (11):1471-1472
135. Brahmaprakesh,G.P., Chandraprakash,J., **Ganeshaiiah,K.N.** and Uma Shaanker, R. 2004. Pulse yields: Feeling the Pulse. ***Curr Sci.***, 87(7):859-861
136. Uma shaanker, R., **Ganeshaiiah, K.N.**, M. Nageswara Rao and Aravind,N. A. 2004. Ecological Consequences of forest use from genes to teosystem-A case study in the biligiri rangaswamy temple wildlife sanctuary, South India ***Conservation & Society***, 2(2): 347-363

137. Uma Shaanker,R., **Ganeshaiyah, K.N.**, Smitha Krishnan.,Ramyra, R., Meera,C., Aravind, N.A., Kumar,A.,Rao,D., Vanaraj,G., Ramachandra,J.,Gauthuer, R., Fhazoul,J.,Poole,N., and Chinnappa Reddy,B.V.. 2004. Livelihood gains and ecological costs of non- timber forest product dependence: assessing the roles of dependence, ecological knowledge and market structure in three contrasting human and ecological settings in South India **Environmental conservation**, 31(3):1-13
138. Krishnaswamy, J., Kiran,M.C., and **Ganeshaiyah,K.N.**,2004. Tree model based eco-climatic vegetation classification and fuzzy mapping in diverse tropical deciduous ecosystems using multi season NDVI, International Journal of remote sensing, volume 25, issue 6, pp. 1185-1205.
139. Georgi P. Mathachen., R. Vasudeva., Hombe Gowda, H.C., **Ganeshaiyah, K.N.**,Uma Shaanker R.2004. Ecological amplitude and regeneration of medicinally important threatened trees in the Central Western Ghats. **The Indian Forester** 130(11):1330-1338
140. Lyngdoh, N., Santosh, S.H., Ramesha, B.T., Nageswara Rao, M., Ravikanth, G., Barve Narayani., **Ganeshaiyah, K.N.**, Uma Shaanker, R.[Rattan species richness and population genetic structure of Calamus flagellum in North-Eastern Himalaya, India. Journal of Bamboo and Rattan](#), 4 (3):293-307.
141. Aravind, N.A., Manjunath, J., Dinesh Rao, **Ganeshaiyah, K.N.**, Uma Shaanker, R., and Vanaraj,G., 2005. Are Red listed species threatened? A comparative analysis of red listed and non-red-listed plant species in the Western Ghats, South India. **Curr Sci.**, 88(2):258-265
142. Bhausheb Tambat, G., Rajanikanth, G., Ravikanth, Uma Shaanker, R., **Ganeshaiyah, K.N** and Kushalappa, C.G.2005. Seedling mortality in two vulnerable tree species in the sacred groves of Western Ghats, South India. **Curr Sci.**, 88(3):350-352
143. Barve,N.,Kiran,M.C.,Vanaraj,G.,Aravind, N.A., Rao, D., Uma Shaanker, R., **Ganeshaiyah, K.N.** and J.G. Poulsen. 2005. Measuring and mapping threats to a wildlife sanctuary in Southern India. **Conservation Biology**. 19(1):122-130
144. **Ganeshaiyah, K.N.** Asymmetry between Arts and Science. **Curr Sci.**, 89(9):1451-1452
145. B.V., Chandrashekhar. M., Ramesha. B.T., Hombe Gowda. H.C., Rajesh. P. Gunaga., Suhas. S., Vasudeva. R., **Ganeshaiyah, K.N** and Uma Shaanker. R. 2006. Patterns of accumulation of camptothecin, an anti-cancer alkaloid in *Nothapodytes nimmoniana* Graham., in the western ghats, India: implications for identifying high-yielding sources of the alkaloid. **Curr Sci.**, 90 (1): 95-100

146. Uma Shaanker,R.,**Ganeshaiiah,K.N.** and S. Natesh.2006. Digital inventory of Biological Resources of India. *Tropi-net* 17(3):1-3.
147. **Ganeshaiiah, K.N.**, Uma Shaanker, R., and Vasudeva,R., 2007. Bio-resources and empire building: What favoured the growth of Vijayanagara Empire? *Curr Sci.*, 93(2):1-7
148. **Ganeshaiiah,K.N.** The thalakaadu phenomenon: A miracle or an ecological disaster? *Curr Sci.*, 93(11):1495-1500
149. Aravind, N.A., Tambat,B., Ravikanth,G.,**Ganeshaiiah, K.N.** and Uma Shaanker, R. 2007. Patterns of species discovery in the Western Ghats, a megadiversity hot spot in India: *Biosci.* 32(4), 781-790
150. Aravind, K.,Ravikanth,G., Uma Shaanker,R.,Chandrashekara,K.,Kumar,A.R.V. and **Ganeshaiiah,K.N.** 2007. DNA barcoding: An exercise in futility or utility? *Curr Sci.*, 92(9): 1213-1216
151. **Ganeshaiiah,K.N.** and Uma Shaanker,R. 2007. Bio-resources Database- Documenting life:*Biotech News*, 2(2):10-13
152. Nageswara Rao. M., **Ganeshaiiah,K.N.** & Uma Shaanker, R. 2007. Assessing threats and mapping sandal resources to identify genetic 'hot-spot' for *in-situ* conservation in peninsular India. *Conservation genetics* 8, 925-935
153. Nageswara Rao. M., **Ganeshaiiah, K.N.** & Uma Shaanker, R. 2007. Cross species amplification of account micro satellite makers in Rattens. *Silvae Genetica* 56(6): 282-286.
154. Ramesha,B.T., Ravikanth,G.,Nageswara Rao,M.,**Ganeshaiiah,K.N.** and Uma Shaanker,R. 2007. Genetic structure of the rattan Calamus thwaitesii in core, buffer and peripheral regions of three protected areas in central Western Ghats, India: do protected areas serve as refugia for genetic resources of economically important plants?. Journal of Genetics, Vol. 86, No. 1.
155. Uma Shaanker, R., Ramesha, B.T., **Ganeshaiiah, K.N.** 2007. Chemical profiling of *Nothapodytes nimmoniana* for camptothecin, an Important Anti cancer Alkaloid: Towards the Development of a sustainable production system. In Bioactive molecule and medicinal plants. pp:197-213.
156. Suhas S., Ramesha B.T., Ravikanth G., Rajesh P. Gunaga., Vasudeva R., **Ganeshaiiah, K.N.**, Uma Shaanker, R.2007. Chemical profiling of *Nothapodytes nimmoniana* populations in the Western Ghats, India for anti-cancer compound, Camptothecin. *Current Science*, 92(8):1142-1147.
157. Ramesha B.T., Amna,T., Ravikanth,G., Gunaga, R.P., Vasudeva, R., **Ganeshaiiah, N.**, Uma shaanker,R., Khajuria,R.K., Puri,S.C., and Quazi,G.N. 2008. Prospecting for

Camptothecines from *Nothapodytes nimmoniana* in the Western Ghats, South India: Identification of high yielding sources of camptothecin and new families of camptothecines. *Journal of Chromatographic Science*, vol.46, 362-368

158. Kannan, R., Aravind, N.A., Joseph, G., **Ganeshiah, K.N.** and Uma Shaanker, R. 2008. A weed for a need. *Biotech News*, 2(2):9-11
159. Ramesh, B.T., Srirama, R., Ravikanth, G., Ravishankar, K.V., Dayanandan, S., Sreejaya, N., Vasudeva, R., **Ganeshiah, N.**, Uma Shaanker, R. 2008. Development of polymorphic microsatellite loci in *Nothapodytes nimmoniana*, a medicinally important tree from the Western Ghats, India, **Molecular Ecology Resources** doi:10.1111/1755-0998 pp (1-3)
160. Srirama, R., Ramesh, B.T., Ravikanth, G., Uma Shaanker, R., **Ganeshiah, K.N.** 2008. Are plants anti cancer activity resistant to crown gall?: a test of hypothesis. *Sci.*, **95(10)**:1407-1408.
161. Ravikanth, G., Nageswara, Rao, M., Deepali, Singh, B.S., Cheluvvaraju, J., **Ganeshiah, K.N.** Uma Shaanker R. 2008. [Contrasting spatial patterns of distribution of genetic diversity in two important bamboo species in the Central Western Ghats, India.](#) *Journal of Bamboo and Rattan*, 7 (1-2):41-52.
162. Jagdish, K., Bawa, S.K., **Ganeshiah, K.N.**, Kiran, M.C. 2009. [Quantifying and mapping biodiversity and ecosystem services: Utility of a multi-season NDVI based Mahalanobis distance surrogate.](#) *Remote Sensing of Environment*, 113 (4):857-867.
163. Raghavendra, T.R., Priti, V., Swathi, H.K., Ramesha, B.T., Ravikanth, G., **Ganeshiah, K.N.**, Srikrishna, A., Uma Shaanker, R. [Prospecting for alternate sources of shikimic acid, a precursor of Tamiflu, a bird-flu drug.](#) *Current Science*, 96 (6):771-772.
164. Priti V., Ramesha B.T., Singh Shweta., Ravikanth G., **Ganeshiah K.N.**, Suryanarayanan T.S., Uma Shaanker R. 2009. [How promising are endophytic fungi as alternative sources of plant secondary metabolites?](#) *Current Science*, 97 (4):477-478.
165. **Ganeshiah, K. N.**, Vasudeva, R., and Uma Shaanker, R. 2009. In search of Sanjeevani. *Sci.*, vol.97, No. 4, Pp 484-489
166. Sumangala, R.C., Naveen Kumar, B.T. Ramesha, Uma Shaanker, R. **Ganeshiah, N.**, Ravikanth, G. 2009. Development of micro satellite markers for critically endangered species, *Ceropegia fantastica* from the Western Ghats, India. *Conservation Genetic*. DOI 10.1007/s10592-009-9825-0
167. Nageswara- Rao, M., Ravikanth, G., **Ganeshiah, K.N.**, Uma Shaanker, R., 2009. Role of protected areas in conserving the population and genetic structure of

economically important Bamboo species. ***Bioremediation, Biodiversity & Bioavailability***, 4(1); pp.69-76.

168. Patel, Mohanakumara., Nambiar, Sreejayan., Priti, V., Ramesha, B.T., Ravikanth, G., **Ganeshiah, K.N.**, Vasudeva, R., Mohan, John., Thankayyan, Retnabai., Santhoshkumar,, Prabhu, Dutt., Viswakarma, Ram., Uma Shaanker, R. 2010. [*Dysoxylum binectariferum Hook.f \(Meliaceae\), a rich source of rohitukine. Fitoterapia*](#), 81 (2):145-148.
169. Uma Shaanker, R., **Ganeshiah, K.N.** [*Is there enough science for conservation action?Biotropica*](#), 42 (5):563-565.
170. Aravind, N. A., Dinesh Rao, **Ganeshiah, K.N.**, Uma Shaanker, R. and John G. Poulsen 2010. Impact of Invasive plant, Lantana camara, on bird assemblages at Male Mahadeshwara Reseve Forest, South India Tropical Ecology.51(2S):325-338
171. Umashaanker, R. and **Ganeshiah, N.** 2010. Ecological consequences of GMOs Ensuring Environmental safety. Biotech News. Vol 5(2). pp75-77.
172. Srirama, R., Senthilkumar, U., , Ravikantha,G., Gurumurthy, B.R.,. Shivanna, M.B., Sanjappa, M **Ganeshiah, K.N.** Uma Shaanker. R . 2010. Assessing species admixtures in raw drug trade of Phyllanthus, a hepato protective plant using molecular tools. Journal of Ethnopharmacology. **130**: 208-215.
173. Gurudatt, P.S., Priti, V., Shweta, S., Ramesha, B.T., Ravikanth, G., Vasudeva,R., Amna, T., Deepika, S., **Ganeshiah, K.N.**, Shaanker R.U., Puri, S., Qazi, N.[*Attenuation of camptothecin production and negative relation between hyphal biomass and camptothecin content in endophytic fungal strains isolated from Nothapodytes nimmoniana Gram \(Icacinaceae\). Current Science*](#), 98 (8):1006-1010.
174. Hemmila, S., Kumara, M., Ravikanth, G., Gustafsson, S., Vasudeva, R., **Ganeshiah, K.N.**, Uma Shaanker R., Lascoux M.[*Development of eleven microsatellite markers in the red-listed tree species Myristica malabarica. Conservation Genetics Resources*](#), 2 (1):305-307.
175. Ravikanth, G., Nageswara Rao, M., Narwade, Ajay., Uma Shaanker, R., **Ganeshiah, KN.**[*Do endemic rattans have lower Genetic variability than their Co-generic and con-specific non-endemic rattans? Genes, Genomes & Genomics*](#), 4 (1):22-27.
176. Madhav Gadgil, R.J. Ranjithm Daniels., **Ganeshiah, N.**, Naendra Prasand, M. S.R. Murthy, C.S. Jha, B.R. Ramesh and K.A. Subramanian.,2011. Mapping ecologically sensitive, significant and salient area of western Ghats:Proposed protocols and methodology. Current science, vol.100, No.2, pp:175-182

177. Ramesha, B.T., Yetish, M.D., Ravikanth, G., **Ganeshaiyah, K.N.**, Jaboury Ghazoul., Uma Shaanker, R. [Stylish lengths: Mate choice in flowers.](#) *Journal of Biosciences*, 36 (2):229-234.
178. Ramesha, BT., Zuehlke, S., Vijaya, R/C., Priti, V., Ravikanth, G., **Ganeshaiyah, K.N.**, Spiteller M., Uma Shaanker R. [Sequestration of camptothecin, an anticancer alkaloid, by chrysomelid beetles.](#) *Journal of Chemical Ecology*, 37 (5):533-536.
179. Ravikanth, G., Srirama, R., **Ganeshaiyah, K.N.**, Uma Shaanker, R. [In pursuit of a universal barcode of plants: peril of followers?](#) *Current Science*, 101 (2):269-271.
180. Ramesha, BT., Gertsch, Jürg., Ravikanth G., Priti, V., **Ganeshaiyah, K.N.**, Uma Shaanker R. 2011. [Biodiversity and Chemodiversity: Future Perspectives in Bioprospecting.](#) *Current Drug Targets*, 12 (11):1515-1530.
181. tadwalkar, m.d., joglekar, a.m., mhaskar, m., kanade,r.b., chavan, b., wative,a.v., **ganeshaiyah,k.n.** and patwardhan, a.a. 2012, Dispersal modes of woody species from the northern Western Ghats,India. *Tropical Ecology* **53**(1): 53-67
182. Ravi Prasad Rao, B., K. Prasad, M. Bheemalingappa, M. Chennakesavulu Naik, **N. Ganeshaiyah**, M. Sanjappa, 2012, Distribution pattern and Conservation status of *Dendrobium tenuicaule* Hook. f. (Orchidaceae), a global endemic of Middle Andaman Island, India, *Journal of Threatened Taxa*, **4**(15): 3410-3414
183. Prasad, K., M. Bheemalingappa, B. Ravi Prasad Rao and **N. Ganeshaiyah**, New Distributional records for Andaman and Nicobar Islands, *Indian Journal of Forestry*, 36 (4): 513-514
184. Shivaprakash, K, N.,Ravikanth, G., Narayani, B., Ghazoul, J., **Ganeshaiyah, K.N.**, Uma Shaanker, R. 2013. [Do ecological niche model predictions reflect the adaptive landscape of species?: A test using *Myristica malabarica lam.*, an endemic tree in the Western Ghats, India.](#) *PLoS ONE*, 8 (11):1-13.
185. Sachin, N., Manjunatha, B.L., Mohana Kumara, P., Ravikanth, G., Shweta, S., Suryanarayanan, T.S., **Ganeshaiyah, K.N.**, Uma Shaanker, R. 2013. Do endophytic fungi possess pathway genes for plant secondary metabolites? *Current Science*, 104(2): 178-182.
186. Ramesha B,T.,Suma H,K., Senthilkumar, U., Priti, V., Ravikanth, G., Vasudeva, R., Santhosh Kumar, T,R., **Ganeshaiyah, K.N.**, Uma Shaanker, R. [New plant sources of the anti-cancer alkaloid, camptothecine from the Icacinaceae taxa, India.](#) *Phytomedicine*, 20 (6):521-527.
187. Shweta, S., Bindu, J.H., Raghu, J., Suma, H.K., Manjunatha, B.L., Kumara, P.M., Ravikanth, G., Nataraja, K.N., **Ganeshaiyah, K.N.**, Uma Shaanker, R. 2013, Isolation of

endophytic bacteria producing the anti-cancer alkaloid camptothecine from *Miquelia dentata* Bedd. (Icacinaeae), *Phytomedicine*: 20 : 913-917.

188. Kumar, U, S., Nagaraju, S.P.K., Ramanujam, S., Ravikanth, G., Narasimhan, D., Ullasa., K., Sanjappa, M., **Ganeshiaiah, K.N.**, Shaanker, R., Dayanandan, S.D. 2013, Early Pliocene diversification and dispersal of rattans (Tribe Calamae, Family Arecaceae) in Asian tropical forests, Proceedings of the 49th Annual Meeting of the Canadian Botanical Association, At Thompson Rivers University, Kamloops BC, CANADA, Volume: 49.
189. Kumar U, S., Nagaraju, S.P.K., Ramanujam, S., Ravikanth, G., Narasimhan, D., Ullasa., K., Sanjappa, M., **Ganeshiaiah, K.N.**, Shaanker, R., Dayanandan, S.D., 2013, Diversification and dispersal patterns of rattans (climbing palms) in Asian tropical forests, Conference: Annual Work Seminar 2013, At Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore, INDIA.
190. Kumara, P.M., Shweta, S., Vasanthakumari, M. M., Sachin, N., Manjunatha, B.L., Jadhav, S.S., Ravikanth, G., **Ganeshiaiah, K.N.** And Shaanker, R. 2013, Endophytes and Plant Secondary Metabolite Synthesis: Molecular and Evolutionary Perspective, Publisher: Springer India, pp.177-190.
191. Aravind, N. A., **Ganeshiaiah K. N.**, Shaanker, R. 2013. [Indian monsoons shape dispersal phenology of plants.](#) *Biology Letters*, 9 (4):1-5.
192. , Jain, S., Bharate, S., Dar, A.H., Khajuria, A., Samdarshi, M., Bhola, S.K., Qazi, A.K., Hussain, A., Sidiq, T., Shaanker, R.U., Ravikanth, G., Vasudeva, R., Patel, M.K., **Ganeshiaiah K. N.** 2014, novel chromone alkaloid dysoline for the treatment of cancer and inflammatory disorders, RA, WIPO.
193. Kumara, P.M., Soujanya, K.N., Ravikanth, G., Vasudeva, R., **Ganeshiaiah, K.N.**, & Shaanker, R. U. (2014). Rohitukine, a chromone alkaloid and a precursor of flavopiridol, is produced by endophytic fungi isolated from *Dysoxylum binectariferum* Hook.f and *Amoora rohituka* (Roxb). *Wight & Arn, Phytomedicine*., 21:541-546.
194. Bheemalingappa, M., M. Chennakesavulu Naik, K. Prasad, M.V. Suresh Babu, **N. Ganeshiaiah** and B. Ravi Prasad Rao, Seven Angiosperms, New Records for Andaman and Nicobar Islands, India, *Indian Journal of Forestry*, 38(1): 71-73
195. Tagore, J. K., Soosairaj, S., Ramana, M. V., Sathiyaseelan, R., Sanjappa, M. and Ganeshiaiah, K. N. Status assessment of *Centotheca ganeshiaiahiana* (Poaceae), an endemic of Saddle Peak National Park, Andaman and Nicobar Islands, India. *Asian Journal of Plant Science and Research*, 5 (11):16-20
196. Ramanujam, S., Kumar J.U.S., Seethapathy, G., Ragupathy, S., Newmaster, S.G., **Ganeshiaiah K.N.**, Shaanker, R.U., Ravikanth, G., 2015, Species admixtures in herbal

trade: causes, consequences and mitigation, August 2015, Conference: 6th International Barcode of Life Conference, At Guelph, 58.

197. Santhosh Kumar, J.U., Krishna, V., Seethapathy, G.S., Senthilkumar, U., Ragupathy S., **Ganeshiaiah K.N.**, Ganesan R., Steven G, Ravikanth G., Uma Shaanker R. 2015. [DNA barcoding to assess species adulteration in raw drug trade of "Bala" \(Genus: Sida L.\) herbal products in South India.](#) *Biochemical Systematics and Ecology*, 61:501-509
198. Steele, M.Z., Shackleton, C., Shaanker, R.U., **Ganeshiaiah, K.N.**, Radloff, S., 2015, The influence of livelihood dependency, local ecological knowledge and market proximity on the ecological impacts of harvesting non-timber forest products. *Forest Policy and Economics*, 50:285-291.
199. Joglekar, A., Tadwalkar, M., Mhaskar, M., Chavan, B., **Ganeshiaiah, K.N.** and Patwardhan, A. 2015, Tree species composition in Koyna Wildlife Sanctuary, Northern Western Ghats of India. *Current science* **108(9)**:1688-1693.
200. Gunaga, S., Rajeshwari, N., Vasudeva, R., **Ganeshiaiah, K.N.** 2015, Floristic composition of the kaan forests of Sagar taluk: Sacred landscape in the central Western Ghats, Karnataka, India. *Check List* **11(3)**:1626.
201. Thriveni, H.N., Ravikanth, G., Vasudeva, R., **Ganeshiaiah, K.N.** and Uma Shaanker, R.U., 2015, Camptothecine and methoxy camptothecine from callus cultures of *Miquelia dentata* Bedd.— A rare plant of the Western Ghats of India, *Indian Journal of Biotechnology* 14(1):123-126.
202. Naik, M.C., Bheemalingappa, M., **Ganeshiaiah, K.N.**, and Rao, B.R.P., 2015, Additions to Angiosperm flora of Andaman and Nicobar Islands, India-III, *Indian Journal of Forestry* 38(3): 277-279.
203. Tagore, J.K., Soosairaj, S., Ramana, M.U.V., Sanjappa, M., **Ganeshiaiah, K.N.** Status assessment of the Saddlepeak Dewflower (*Murdannia saddlepeakensis* Ramana & Nandikar: Commelinaceae): an endemic spiderwort plant of Andaman Islands, India. **8 (14)** : 9643–9647
204. Srirama, R., Santhosh Kumar, J.U., Seethapathy G.S., Newmaster, Steven, G., Ragupathy S., **Ganeshiaiah, K.N.**, Uma Shaanker R., Ravikanth G. [Species adulteration in the herbal trade: causes, consequences and mitigation.](#) *Drug Safety*. DOI 10.1007/s40264-017-0527-0
205. Kartik, S., Vijayakumar, S.P., **Ganeshiaiah, K.N.** 2017. Unpacking the species conundrum: philosophy, practice and a way forward. *Journal of Genetics*, 96(3): 413-430.

206. Rajashekar, G., Fararoda, R., Reddya, S. R., Jhaa, C.S., **Ganeshaiyah, K.N.**, Singh, J. S., Dadhwala, V.K., 2018. Spatial distribution of forest biomass carbon (Above and below ground) in Indian forests. *Ecological Indicators*. **85**: 742-752
207. Natesh, S., and **Ganeshaiyah, K. N.**, B. G. L. Swamy (1918–1980): a one-man institution. *Current Science*, **115 (11)**: **2168-2171**
208. Saran S, Singh P, Ganeshaiyah KN, Padalia H, Oberoi K (2018) Interoperable Model for Bioresource Distributed Databases. ISPRS – International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences 791- <https://doi.org/10.5194/isprs-archives-xlii-5-791-2018>
209. Hao, M., **Ganeshaiyah, K.N.**, Zhanga, C., Zhaoa, X., Gadow, K. Discriminating among forest communities based on taxonomic, phylogenetic and trait distances. *Forest Ecology and Management*, 440:40-47
210. Minhui Hao, J. Javier Corral-Rivas, M. Socorro González-Elizondo, **Ganeshaiyah, K.N.**, M. Guadalupe Nava-Miranda, Chunyu Zhang, Xiuhai Zhao and Klaus von Gadow, "Assessing Biological Dissimilarities between Five Forest Communities" has been accepted by *Forest Ecosystems*, *Forest Ecosystems* (2019) 6:30
211. Joshua Matata Kimondiu, Kumar, A.R.V., and **Ganeshaiyah, N.** Insects from light trap: Do they represent total diversity? *International Journal of Environment, Agriculture and Biotechnology (IJEAB)*. Vol-4, Issue-5, Sep-Oct- 2019
212. Sagar, V., Sachin, R., Chandrashekara, K., and **Ganeshaiyah, K. N.** Identification of Indian butterflies and moths with deep convolutional neural networks. *Current Science*, Vol. 118, No. 9, 10 May 2020

CHAPTERS IN BOOKS

1. **Ganeshaiyah, K.N.** and Veena, T., 1988, Ant-Plant mutualism: selective forces and Adaptive changes. T.N. Ananthakrishnan and A.Raman, ***Oxford and IBH Publishers***, New Delhi.
2. Uma Shaanker, R. and **Ganeshaiyah, K.N.**, 1990, Pollen grain deposition patterns and stigma strategies in regulating seed number per pod in multi-ovulated species. In ***Reproductive ecology of Tropical Forest Plants.***, Eds. K.S. Bawa and M. Hadley, UNESCO Paris Parthenon. 165-178.
3. **Ganeshaiyah, K.N.** and Uma Shaanker, R., 1993, Fruit and seed set in tropical trees: evolutionary constraints and proximate mechanisms. In ***Genetics and Breeding of Tropical Trees.***, Eds. Gibson and Mandal, Oxford University Press.
4. **Ganeshaiyah, K.N.** and R.V. Kumar, 1993, Self-organisation and chemically mediated aggregation of adults in white grub *Holotricha serrata*. In *Chemical Ecology of*

- phytophagous insects. Ed. T.N. Ananthakrishnan and A. Raman. **Oxford and IBH Publishers**, New Delhi.
5. Uma Shaanker, R. and **Ganeshiaiah, K.N.**, 1995, Towards a holistic ethology. In **Readings in ethology**. Ed. R. Ramamurthy, John Wiley Publications, New Delhi. : 14-21
 6. Uma Shaanker, R. and **Ganeshiaiah, K.N.**, 1995, Sibling rivalry and parent-offspring conflict in plants. In **changing scenario in Plant sciences**. Eds. V.S. Jaiswal and J.S.Singh, BHU Varanasi., : 467-483
 7. **Ganeshiaiah, K.N.** and Uma Shaanker, R., 1995, Self organization as a process generating asymmetry in plants. In **changing scenario in Plant sciences**. V.S. Jaiswal and J.S. Singh, BHU Varanasi., : 485-496
 8. **Ganeshiaiah, K.N.**, Uma Shaanker, R., and Prathana Kathuria, 1997, Evolutionary constraints and adaptive paths leading to mutualistic interactions between plants and insects – **Ecology and Evolution of Plant, Feeding Insects in Natural and Man-Made Environment**, *Sci Publication, New Delhi*,: 169-182
 9. Prathana Kathuria, **Ganeshiaiah, K.N.**, and Uma Shaanker, R., 1997, Evolutionary path of fig and fig-wasp interaction: from predation to mutualism, **Ecology and Evolution of Plant- Feeding Insects in Natural and Man-Made Environment,, Sci Publication, New Delhi** : 183-195
 10. **Ganeshiaiah, K.N.**, BR Hills: A Geological Chip of the Western Ghats. **BR Hills Brochure.**, : 2-3
 11. **Ganeshiaiah, K.N.**, and Uma Shaanker, R., 1998. BRT Sanctuary: A Biogeographic Bridge of the Deccan Plateau. **BR Hills Brochure.**, : 4-6
 12. **Ganeshiaiah, K.N.**, Uma Shaanker, R., Murali, K.S., and Bawa, K.S., 1998. Mapping Biological Richness of BR Hills. **BR Hills Brochure.**, : 9-11
 13. Priyadarsanan D.R., **Ganeshiaiah, K.N.**, Uma Shaanker, R., Mustak Ali., 1998. Ants at BR Hills. **BR Hills Brochure.**, : 12
 14. **Ganeshiaiah, K.N.**, Murali, K.S., and Bhushan Suhas Phene, 1998. Farming by Soligas: The Crops and the Practices. **BR Hills Brochure.**, : 19-21
 15. **Ganeshiaiah, K.N.**, and Uma Shaanker, R., 1998. Conservation of Plant Genetic Resources. **BR Hills Brochure.**, : 25-28
 16. Nageshwara Rao, M., Anuradha, M., **Ganeshiaiah, K.N.**, and Uma Shaanker, R., 2001, Protected areas as refugias for genetic resource: Are sandal genetic resources safe in our sanctuaries?. *Tropical Ecosystems: Structure, Diversity and Human Welfare* (Eds:

Ganeshiaiah, K.N. Uma Shaanker, R. and Bawa. K.S.) **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi, : 121-124

17. Aravind, N.A., Dinesh Rao, G. Vanaraj, G., Poulsen, J., Ganeshiaiah, **K.N.**, Uma Shaanker, R., 2001, Anthropogenic pressures in a tropical forest ecosystem in Western Ghats, India: Are they sustainable In. *Tropical Ecosystems: Structure, Diversity and Human Welfare* (Eds: Ganeshiaiah, K.N. Uma Shaanker, R. and Bawa. K.S.) **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi, : 125-128
18. Priyadarsanan Dharma Rajan, Ganeshiaiah, **K.N.**, Uma Shaanker, R., Mustak Ali, T.M., Kumar, A.R.V., and Chandrashekara, K., 2001, Impact of human-induced disturbance on the diversity of dung beetles (Coleoptera: Scarabaeidae) and ants (Hymenoptera: Formicidae In. *Tropical Ecosystems: Structure, Diversity and Human Welfare* (Eds: Ganeshiaiah, K.N. Uma Shaanker, R. and Bawa. K.S.) **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi : 129-132
19. Kumar, A.R.V., Chandrashekara, K., and **Ganeshiaiah, K.N.**, 2001, Patterns of diversity of species assemblages in islands: Testing the predictions in dung beetles. In. *Tropical Ecosystems: Structure, Diversity and Human Welfare* (Eds: Ganeshiaiah, K.N. Uma Shaanker, R. and Bawa. K.S.) **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi, : 297-301
20. Tambat, B.S., Channamallikarjuna, V., Rajanikanth, G., Ravikanth, G., Kushalappa, C. G., **Ganeshiaiah, K.N.**, and Uma Shaanker, R., 2001, Fragment sizes and diversity of species assemblages in sholas and sacred groves: Are small fragments any worth? In. *Tropical Ecosystems: Structure, Diversity and Human Welfare* (Eds: Ganeshiaiah, K.N. Uma Shaanker, R. and Bawa. K.S.) **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi: 314-318
21. Tambat, S., Channamallikarjuna, V. Rajanikanth, G., Ravikanth, G., Uma Shaanker, R., and **Ganeshiaiah, K.N.**, 2001. Biological diversity and invasion: Testing the invasion theory In. *Tropical Ecosystems: Structure, Diversity and Human Welfare* (Eds: Ganeshiaiah, K.N. Uma Shaanker, R. and Bawa. K.S.) **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi, **Suppl. 2.**, : 97-100
22. S.Bawa., Rose, J., **Ganeshiaiah, K.N.**, Uma Shaanker, R., Kiran, M.C., and Narayani Barve, 2001, Mapping biodiversity from the sky. In. *Tropical Ecosystems: Structure, Diversity and Human Welfare* (Eds: Ganeshiaiah, K.N. Uma Shaanker, R. and Bawa. K.S.) **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi, : .523-525
23. Menon, S., Kamaljit.S.Bawa, **Ganeshiaiah, K.N.**, Uma Shaanker, R2001, Land-use change and conservation priorities in the Western Ghats. In. *Tropical Ecosystems: Structure, Diversity and Human Welfare* (Eds: Ganeshiaiah, K.N. Uma Shaanker, R. and Bawa. K.S.) **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi, : 549-551

24. **Ganeshaiyah, K. N.**, Uma Shaanker, , Narayani Barve., Kiran, M. C., and Kamaljit. S. Bawa., 2001, A regional approach for the conservation of the biological Diversity of the Western Ghats. In. *Tropical Ecosystems: Structure, Diversity and Human Welfare* (Eds: Ganeshaiyah, K.N. Uma Shaanker, R. and Bawa. K.S.) **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi,: 552-556
25. Raghu, H.B., Vasudeva., Dasappa, **Ganeshaiyah, K.N.**, Uma Shaanker, R., 2001, Ecology and conservation of *Semecarpus kathalekanensis*: A critically endangered freshwater swamp tree species of the Western Ghats, India. In. *Tropical Ecosystems: Structure, Diversity and Human Welfare* (Eds: Ganeshaiyah, K.N. Uma Shaanker, R. and Bawa. K.S.) **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi,: 677-680
26. Nageswara Rao, M., **Ganeshaiyah, K.N.**, and Uma Shaanker, R., 2001, Mapping genetic diversity of sandal (*Santalum album*) in south India: Lessons for *in-situ* conservation of sandal genetic resources. In. Forest Genetic Resources, status, threats and conservation strategies (Eds: Uma Shaanker, R. Ganeshaiyah, K.N. and Bawa. K.S.)– **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi,: 49-67
27. Ravikanth, G., **Ganeshaiyah,N.**, and Uma Shaanker, R., 2001. Mapping genetic diversity of rattans in the central Western Ghats: Identification of hot – spots of variability for *in-situ* conservation. In. Forest Genetic Resources, status, threats and conservation strategies (Eds: Uma Shaanker, R. Ganeshaiyah, K.N. and Bawa. K.S.)– **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi,,: 69-83
28. Chalavaraju, Deepali Singh, B.S., Nageswara Rao, M., Ravikanth, G. and **Ganeshaiyah, K. N.**, Uma Shaanker, , 2001. Conservation of bamboo genetic resources in Western Ghats: Status, threats and strategies. In. Forest Genetic Resources, status, threats and conservation strategies (Eds: Uma Shaanker, R. Ganeshaiyah, K.N. and Bawa. K.S.)– **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi,: 99-113
29. Vasudeva, R., Raghu, H.B., Dasappa. **Ganeshaiyah, K.N.**, and Uma Shaanker, R., 2001. Population structure, reproductive biology and conservation of *Semecarpus kathalekanensis*: A critically endangered freshwater swamp tree species of the Western Ghats. In. Forest Genetic Resources, status, threats and conservation strategies (Eds: Uma Shaanker, R. Ganeshaiyah, K.N. and Bawa. K.S.)– **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi,: 211-223
30. Uma Shaanker, R., Ganeshaiyah, **K. N.**, Nageswara Rao, M., and Ravikanth, G., A new approach to conservation of genetic resources of forest trees: Promise and Processes. In. Forest Genetic Resources, status, threats and conservation strategies (Eds: Uma Shaanker, R. Ganeshaiyah, K.N. and Bawa. K.S.) – **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi,: .263-271

31. **Ganeshaiyah, K.N.**, Uma Shaanker, R., and Kamaljit.S.Bawa. 2001. Conservation of forest genetic resources of a region: Combining species-centered and ecosystem-based approaches. In. Forest Genetic Resources, status, threats and conservation strategies (Eds: Uma Shaanker, R. Ganeshaiyah, K.N. and Bawa. K.S.)– **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi,: 273-281
32. S.Bawa. Uma Shaanker, R., and **Ganeshaiyah, K.N.**, 2001. Conserving tropical forest genetic resources: Threats and mitigation strategies. In. Forest Genetic Resources, status, threats and conservation strategies (Eds: Uma Shaanker, R. Ganeshaiyah, K.N. and Bawa. K.S.)– **Oxford & IBH Publ. Co. Pvt.Ltd.**, New Delhi,: 303-307
33. Uma Shaanker, R., **Ganeshaiyah, K.N.**, Nageswara Rao and Ravikanth, G., 2002. Forest Gene banks: a new approach to conserving forest tree genetic resources. **Managing Plant Genetic Diversity.**, CABI publishing, IPGRI, Rome.: 229-235
34. **Ganeshaiyah, K.N.**, Uma Shaanker, R., Narayani Barve, Kiran, M.C., Bawa, K.S., and Ramanatha Rao, V., 2001. *In situ* conservation of forest genetic resources at regional level: two complementary programmes using GIS approach. **Managing Plant Genetic Diversity.**, CABI publishing, IPGRI, Rome.: 413-423
35. Ganeshaiyah K.N 2003. Biodiversity atlases for the country: prerequisite for conservation. Biodiversity(monitoring, Management conservation and Enhancement.) Editor.Ramamurthi Rallapalli and Geetha Bali: 15-28.
36. Ganeshaiyah K.N, Uma Shaanker R., and Mohan, G.S., 2005. Biodiversity of Flora and fauna of the deccan peninsula. Symposium on sustainable agriculture for Dry lands on the Deccan plateau.Editors, M.A. Singlachar., A.M. Krishnappa., Br. R. Hegde., K. Pandurangaiah and K Shivashanker., Pp:41-60
37. Ravikanth, M. nageswara Rao, K.N. Ganeshaiyah and R. Uma Shaanker. 2009. Impacts of harvesting on genetic diversity of NTFP species: Implications for conservation. Pp 53-63.
38. Arvind Kumar, N. A. Aravind, R. Uma Shaanker, K.N.Ganeshaiyah, Seema Purushothaman and Sham N Kashyap, 2009. Herbal exports from India: Trends and implications. Pp 129-138.
39. Uma Shaanker, R.K.Chandrashekara & K.N.Ganeshaiyah, Biodiversity in India Documentation, Utilization and Conservation-Science in India : Achievements and Aspirations pp:160-175
40. Sameer,P.Hitendra,K.N.Ganeshaiyah,O.Kapil,S.Priyanka,A.K.Jha,A.V.Prabhakar,U.Sanjay, A.K.Senthil,Indian Bioresource Information Network (IBIN)

41. N. Ganeshaiah. 2019, Why are insects abundant ? chance or design ? *in Indian Insects Diversity and Science.* (eds: Ramani, S, Prashanth Mohan Raj and Yashavanth, H M), CRC Press

PAPERS IN PROCEEDINGS

1. **Ganeshaiah, K.N.** and Shivashanker, G., 1980, Responses of horsegram genotypes to inoculation with a strain of *Rhizobium* as influenced by native strains. In Progress in Soil Biology and ecology. G.K. Veeresh, UAS, Bangalore.
2. **Ganeshaiah, K.N.** and Veena, T., 1990, Geometry of the foraging trails of *Leptogenys processionalis*-analysis based on graph theory. In Social insects and environment. Ed. Veeresh, G.K., Mallik, B., and Viraktamath, C.A., *Oxford and IBH Publishers.*, : 558-559
3. **Ganeshaiah, K.N.**, Uma Shaanker, R. and Veena, T., 1990, Ant- Croton mutualism for seed dispersal: specific adaptations for the host plant and the ants. In Social insects and the environment. Eds. G.K. Veeresh, B. Mallik and C.A. Viraktamath, *Oxford and IBH Publishers.*, : 89-90
4. Veena, T., **Ganeshaiah, K.N.**, and Kumar, A.R.V., 1990, Optimization of patch residence time in *Camponotus sericeus* foraging on nectarines of croton bonplandianum baill. In Social insects and the environment. Eds. G.K. Veeresh, B. Mallik and C.A. Viraktamath, *Oxford and IBH Publishers.*, : 103-107
5. Uma Shaanker, and **Ganeshaiah, K. N.**, 1991, How can we incorporate conservation of genetic diversity of cultivated plants in program of sustainable agriculture development. ***Workshop on linkages between wasteland and biodiversity***, CES. IISc, Bangalore.
6. Vasudeva, R., Ganeshaiah, K. and Uma Shaanker, R., 1993, Cost of advertisement in plants: floral predation in *Derris indica* and *Cassia fistula*. In Pollination in tropics. Eds. G.K.Veeresh, Uma Shaanker, R. and Ganeshaiah, K.N. ***IUSSI Indian Chapter***: 6-8
7. Gore, A.P., Paranjpe, S.A., Uma Shaanker, R. and **Ganeshaiah, K.N.**, 1993, Ovule number optimization in multiovulated plants. In Pollination in tropics. Eds. G.K. Veeresh, Uma Shaanker, R. and Ganeshaiah, K.N. ***IUSSI Indian Chapter.***, : 15-19
8. Radha, M.R., Hegde, S.G., Vasudeva, R., **Ganeshaiah, K.N.** and Uma Shaanker, R., 1993, Are pollen donors selected to prudentially fertilize ovules at the most advantageous position in the fruit? In Pollination in tropics. Eds. G.K. Veeresh, Uma Shaanker, R. and Ganeshaiah, K.N. ***IUSSI Indian Chapter.***, : 66-68
9. Joshi, N.V., Uma Shaanker, R. and **Ganeshaiah, K.N.**, 1993, The `neighbour effect' and its role in shaping the positional pattern of seed development in fruits : an

illustration from the pods of *Erythrina suberosa*. In Pollination in tropics. Eds. G. K. Veeresh, Uma Shaanker, R. and Ganeshiaiah, K.N. ***IUSSI Indian Chapter.***, : 27-28

10. Murali, K.S. Uma Shaanker, R., **Ganeshiaiah, K.N.** and Bawa, K.S., 1995, Impact of harvesting non-timber forest products on forest structure and composition: strategies for conservation and sustainable harvesting. In New directions in plant biodiversity research, Tiruchirapalli, India.
11. **Ganeshiaiah, K.N.**, Uma Shaanker, R., Keshav Murthy, M.N. and Bawa, K.S., 1995, Can small fragments be substitutes for large forests? - A case study from the sholas of BRT Hills. In New directions in plant biodiversity research, Tiruchirapalli, India.
12. Prarthana Kathuria, **Ganeshiaiah, K.N.** and Uma Shaanker, R., 1996, Regulation of floral depredation by pollinator wasps in monoecious figs: Chemical interactions between syconia of *figus benghalensis* and the pollinator wasp *Eupristina masoni*. National symposium on Biochemical Basis for Host Plant Resistance to Insects, Pune, India. 199-214
13. Sagar Kathuria, Chandrashekara, K., Kumar, A.R.V., Reddy, S.C.V., Ganeshiaiah, K.N., and Uma Shaanker, R. 2001. Developing forecast models for crop pests and diseases based on spatially explicit and dynamic database. Agro – Informatics., : 47-50

BOOKS EDITED

1. Veeresh, G.K., Uma Shaanker, R. and **Ganeshiaiah, K.N.**, 1993, Pollination in Tropics, ***IUSSI Indian Chapter.***, UAS, Bangalore.
2. S. Bawa.,**Ganeshiaiah, K.N.**, and Uma Shaanker, R. 1993, Pollination Biology in Tropics, ***Curr. Sci.***, **65** (3)
3. **Ganeshiaiah, K.N.**, and Uma Shaanker. R., 1995. Animal welfare. ***Sci.***, **69** (4)
4. **Ganeshiaiah, K.N.**, Uma Shaanker, R., A Decade of sex life of plants: Dept of Plant Genetics and Breeding, UAS, Bangalore.
5. Madhav Gadgil, Ganeshiaiah, **K.N.**, and Uma Shaanker, R. 1997, Biodiversity of Western Ghats. , ***Sci.***, : **73** (2)
6. **Ganeshiaiah, K.N.**, Uma Shaanker, R., 1998. Special Section: Use of GIS & RS in Ecology and Conservation Biology. ***Sci.***,: **75**
7. **Ganeshiaiah, K.N.** and Uma Shaanker, R., 1998. Biligiri Rangaswamy Temple Wildlife Sanctuary: Natural History, Biodiversity and Conservation. **VGKK**, BR Hills, Chamrajanagar.
8. **Ganeshiaiah, K.N.**, Uma Shaanker, R., and Kamaljit.S.Bawa, 2001. Tropical Ecosystems: Structure, Diversity and human Welfare. **Oxford & IBH Publ. Co. Pvt.Ltd. New Delhi.**

9. Uma Shaanker, R., **Ganeshiaiah, K.N.**, and Kamaljit S. Bawa, 2001. Forest Genetic Resources status, threats and conservation strategies. **Oxford & IBH Publ. Co. Pvt.Ltd. New Delhi.**
10. **Ganeshiaiah K N** with Westen Ghats Team, **2012, Plants of Western Ghats. Vol-1, NBDB, Department of Biotechnology, GOI, New Delhi**
11. **Ganeshiaiah K N** with Westen Ghats Team, **2012, Plants of Western Ghats. Vol-2, NBDB, Department of Biotechnology, GOI, New Delhi**

POPULAR ARTICLES

1. **Ganeshiaiah, K.N.** and Uma Shaanker, R., 1992, A lesser-known paradise. **TheHindu**, Sunday August. 23
2. Venkatareddy, D.M., **Ganeshiaiah, K.N.**, Jayanna, M. and Chandrashekar, R. 1996. *Danyada dantina beejodpadane*, **UAS**, Bangalore., : 2-8
3. Dhanpal, G.N., **Ganeshiaiah K.N.** and M.L. Annapurna, 1997, Samrudha poustikatheya beejada dantu, (Kannada) , **12** (12) : 30-33
4. **Ganeshiaiah, K.N.**, 1998, Love Games that Insects Play, *Resonance.*, **3** (1) : 36-46.
5. Dhanpal, G.N., **Ganeshiaiah, K.N.**, 1998, 'Suvarna' dhantina thiliya khallu, lysinann agar; Meti **Vidya.**, **4** (3) : 12-13
6. Dhanpal, G.N., **Ganeshiaiah N.** and M.L. Annapurna, 1998, Poushtika beeja: Dhantina bele, (Kannada), **Adike Pathrike.**, Jan 1998
7. **Ganeshiaiah, K.N.**, 1998, Shola Forest. **Baala Vignana**, (June) : 12-14
8. G.N., **Ganeshiaiah, K.N.**, 1998, Selection of varieties and improvement. **Siri Samrudhi.**, (January – March) : 22-23
9. **Ganeshiaiah, K.N.**, 1999, Wanna take a bet? Science & Technology, May 18, **Deccan Herald.**, : 19
10. Uma Shaanker. R., **K.N.** and 2000. Bamboo Bazaar. **Deccan Herald.**, April 7,: IV Spectrum / TV Listings
11. **Ganeshiaiah, K.N.**, Cultivating Computers. Science & Technology, **Deccan Herald.**, June 2 : 3
12. Dhanpal, G.N., Anuradha, H.R., Uma Shaanker, R., and **Ganeshiaiah, K.N.**, Alivu wulivina naduve medararu (Kannada), July 30, **Prajavani.**,: 2
13. Nageshwara Rao. , **K.N. Ganeshiaiah** and R. Uma Shaanker., 2002. Mapping the Reek. **Down To Earth.**, **31** : 18