

Dr. G. Ramachandra Rao
Associate Professor,
Centre for Urban ecology, Biodiversity,
Evolution & Climate change (CUBEC),
JAIN (Deemed-to-be-University),
Bengaluru, Karnataka, India
ramachandra.rao@jainuniversity.ac.in
9731904350

Education

- | | |
|------------|---|
| 2009– 2016 | Mangalore University, Mangalore, Karnataka, India.
Ph.D. in Botany
Thesis Adviser: Dr. Krishnakumar G. |
| 1995-1997 | Master's in Botany
Bangalore University, Bengaluru, Karnataka, India.
Graduated with First Class |
| 1992-1995 | B.Sc. in Chemistry, Botany & Microbiology
Bangalore University, Bengaluru, Karnataka, India.
Graduated with Second Class |

Research Experience

- | | |
|--------------------|---|
| 2022 Oct - present | Associate Professor, Centre for Urban ecology, Biodiversity, Evolution & Climate change (CUBEC), JAIN (Deemed-to-be-University), Bengaluru. |
| 1999-2018 | Various positions from Project assistant to Research Associate, Center for Ecological Sciences, Indian Institute of Science [IISc], Bengaluru.
Research Advisors: Dr T. V. Ramachandra & Dr. M. D. Subash Chandran |
| 1998 – 1999 | Scientific Assistant, Karnataka Association for Advancement in Science, Central College, Bengaluru. |

Broad Interests

Research

My area of expertise includes

- 20 years of experience across plant identification and research in Rain Forest Plant Diversity, Ecology, Evolution, Taxonomy and Conservation of its exceptional endemic and endangered plant species in Western Ghats.
- Research areas include bio-diversity assessment and monitoring, Urban biodiversity, forest ecology and evolution, grassland and wet land plant diversity, ethno-botany, medicinal plants, Environmental Impact Assessment and conservation related studies in tropical forests of Western Ghats and temperate Himalayas.
- My studies in Uttara Kannada forest (Central Western Ghats) led to discovery and publication of two new plant species and many new plant records from Karnataka

state. Teaching these ecological aspects and creating conservation awareness are also my primary likings and agenda.

- Transect wise forest vegetation survey for tree, shrub and herb layers, opportunistic surveys, mapping etc. Identification of plants (grasses, sedges, orchids, other herbaceous plants, shrubs, climbers, and trees from evergreen and deciduous forests, grasslands, wetlands of Karnataka and temperate forests of Western Himalayas), herbaria preparation, etc.
- Documentation, statistical analysis and preparation of research reports, scientific papers, articles, and project proposals, using latest software, lab techniques and procedures.

Examples of projects handled

- Ecological modelling of Himalayas, Himachal Pradesh
- Conservation Flora of Uttara Kannada district, Karnataka, India.
- Vegetation studies for sacred groves of Karnataka
- Ecologically sensitive regions in Uttara Kannada district, Karnataka state.
- Integrated Carrying Capacity Studies of Uttara Kannada, Karnataka
- Forest status of Shimoga district, Karnataka
- Coastal and Lateritic flora of Uttara Kannada
- Impact on Sacred groves of Thirthahalli taluk, Shimoga, Karnataka
- Grasses and sedge flora of Anshi and Dandeli, Uttara Kannada district
- Hubli-Ankola (Uttara Kannada part of Western Ghats, Karnataka) railway alignment vegetation impact assessment studies
- Vegetation studies in Gundia River Basin (Madikeri-Sakleshpur region, part of Western Ghats)
- Distribution and mapping of Mangroves of Uttara Kannada district.
- Vegetation studies in 'Ecological Modelling of Himalayas, Himachal Pradesh'.
- Cumulative impact assessment of Linganamakki catchment area, Sharavathi river basin (Shimoga district).
- Impact assessment of bauxite mining in Chandgad region (Maharashtra-part of Western Ghats).
- Mapping of fuel wood trees in Kolar district using remote sensing data and GIS.

Other than research

- Science Education, Science outreach
- Motivational Science talks and Science awareness
- Forest trek with students
- Hindustani Music-Tabla instrument
- Floral sketching and painting

Professional Experience: _____

Posts held:

- ✓ 2022 Oct- present: Associate Professor, Centre for Urban ecology, Biodiversity, Evolution & Climate change (CUBEC), JAIN (Deemed-to-be-University), Bengaluru
- ✓ 2019-Sept 2022: Full time Guest faculty (Plant Science), Bengaluru City University, as teaching faculty, I was instrumental in setting up classrooms and laboratories and

smooth running of newly started MSc Plant science program in BCU, Bengaluru. Overall-incharge of the graduate teaching, responsible for the maintenance of the laboratories and for conducting laboratory courses. Help, design and evolve the laboratory/lecture curriculum, Assist in the conduct of classes, course material preparation (both print and electronic versions) and evaluation of students, and guide students for other extracurricular events.

- ✓ July 2018- September 2019: Assistant Professor in Botany M.E.S College of Arts, Commerce and Science.
- ✓ Centre for Ecological Sciences, Indian Institute of Science
 - Research Associate (2016 – 2018)
 - Senior Research Fellow (2008 – 2016)
 - Project Assistant (1999 – 2008)
- ✓ Scientific Assistant, Karnataka Association for Advancement in Science, Central College, Bengaluru, (1998 – 1999).
- ✓ Lecturer in Botany, M.E.C Junior college, Yelahanka, Bengaluru, (1997 -1998)

Academic Honors

- 2016** Recipient of “Sahyadri Young Ecologist” award in Lake-2016, International symposia on Ecologically Sensitive Regions in Western Ghat 27- 30th December 2016 in Mangalore, Centre for Ecological Sciences, Indian Institute of Science, Bangalore.
- 2014** Recipient of “Young Ecologist” award in Lake-2014, National symposia on Conservation and Management of Wetland Ecosystems, 13th - 15th November 2014 in Sirsi, Karnataka, India, Centre for Ecological Sciences, Indian Institute of Science, Bangalore (IISc), Bangalore

Publications

Dissertation

Rao, G. R. 2016. Ecology of Relic Evergreen forests in Central Western Ghats. PhD Thesis. Mangalore University, Mangalore, Karnataka, India.

RESEARCH PAPERS

International Papers

- Anerao, J., Jha, V., Shaikh, N... **G. Ramachandra Rao.**, *et al.* DNA barcoding of important fruit tree species of agronomic interest in the genus *Garcinia* L. from the Western Ghats. International journal of *Genet Resour Crop Evol* (2021), Springer Nature. <https://doi.org/10.1007/s10722-021-01177-6>
- Darshetkar, Ashwini & Datar, Mandar & **Rao G, Ramachandra** & Tamhankar, Shubhada & M. Prabhukumar, Konickal & Choudhary, Ritesh. (2019). *Eriocaulon*

karaavalense (Eriocaulaceae). A new species from India based on morphological and molecular evidence (<http://www.annbot.net/PDF/amb56-free/amb56-305-316-free.html>). *Annales Botanici Fennici*. 56. 305-316.

- NAVENDU V. PAGE, MANSA SRIVASTAV & RAMACHANDRA G. RAO. (2017). A new species of Reissantia (Celastraceae) from coastal Karnataka, India. *Phytotaxa* 297 (2).
- **Rao G. R.**, Krishnakumar G., Dudani S. N., Chandran M. D. S., Ramachandra T. V (2014) Diversity and Regeneration Aspects of Medicinal Plants at Devimane, Uttara Kannada District, Karnataka, Central Western Ghats. *J Biodivers Manage Forestry* 3:1. doi:10.4172/2327-4417.1000122
- Chandran M.D.S., **Rao G. R.**, Gururaja K.V and Ramachandra T.V., (2010), Ecology of the Swampy Relic Forests of Kathalekan from Central Western Ghats, India. *Bioremediation, Biodiversity and Bioavailability 4 (Special Issue I)*, Global Science Books, 54-68.
- Mesta, D. K., H. V. Hegde., V. Upadhya., **G. R. Rao.**, G. R. Hegde & S. D. Kholkute (2009). *Cassipourea ceylanica* (Gardn.) Alston (1925) (Rhizophoraceae) in Karnataka. *Journal of Threatened Taxa* 1(10): 530–532.
- Subash Chandran M.D., Mesta D.K., **Rao G. R.**, Sameer Ali, Gururaja K.V. and Ramachandra T.V. (2008). Discovery of two critically endangered tree species and issues related to relic forests of the Western Ghats, *The Open Conservation Biology Journal*, 2008, 2, 1-8. <http://www.bentham.org/open/toconsbj/openaccess2.htm>, doi: 10.2174/1874839200802010001
- Ramachandra T.V., SubhashChandran M.D., Sreekantha., Diwakar K Mesta., **Rao G. R.** and Sameer Ali. 2004. Cumulative Impact Assessment in the Sharavathi River Basin, *International Journal of Environment and Development* 1 (1), 113-135.

National Papers

- **Rao G. R.**, SubashChandranM. D., Ramachandra T. V (2015). Diversity & regeneration status of medicinal plants in Medicinal plant conservation area (MPCA) at Shirgunji of UttaraKannada district, Central Western Ghats. *My Forest-March-June-2015*, Vol-51.
- **Rao G. R.**, G. Krishnakumar., Sumesh N. Dudani., M. D. SubashChandran and T. V. Ramachandra (2013) Vegetation Changes along Altitudinal Gradients in Human Disturbed Forests of Uttara Kannada, Central Western Ghats. *J Biodiversity*, 4(2): 61-68
- **Rao G. R.**, SubhashChandran M D and Ramachandra T V, (2011) new plant records for Karnataka, Uttara Kannada district, *Journal of Economic and Taxonomic Botany (JETB)*, 35(1):154-157.
- Ramachandra T. V., Joshi NV, **Rao G. R.**, Dhanapal G., Gururaja K. V and Amit S. Y. (2014) Ecological status of three micro watersheds in Western Himalaya. *Indian Forester*. 140:331-347.
- Mahesh Babu D., **Rao G. R.**, Diwakar Mesta., SubashChandran M. D and Ramachandra T. V, (2010) Sharavathi river basin flora information system (SRFIS), *The Indian Forester*, 136(4):507-517
- **Rao G. R.**, SubashChandran M.D. and Ramachandra T.V., (2010) Plant diversity in the Sharavathi river basin in relation to human disturbance, *The Indian Forester*, 136(6): 775-790.
- Sreekantha., SubashChandran M.D., Mesta D.K., **Rao G. R.**, Gururaja K.V., Ramachandra T.V. Fish Diversity in Relation to Landscape and Vegetation in Central Western Ghats, India. *Curr.Sci.*, 2007: 92(11):1592-1603.
- **Rao G. R.**, SubashChandran M.D., and Ramachandra T.V. 2005. Habitat approach for conservation of herbs, shrubs and climbers in the Sharavathi River Basin, *The Indian Forester*, 131 (7): 885-900.

BOOK PUBLICATIONS

- **Rao G. R.** (2013). Flora of MPCA, DevimaneGhat, Uttara Kannada district. Honnavar Forest division. Honnavar, UK, Karnataka.
- Ali, Sameer, [G. R. Rao](#), [Divakar K. Mesta](#), [Sreekantha](#), [Mukri Vishnu](#), [M. D. SubashChandran](#), K. V. Gururaja, N. V. Joshi, and T. V. Ramachandra. (2007). Ecological Status of Sharavathi Valley Wildlife Sanctuary. Prism Books Pvt Ltd., Bangalore.

CHAPTER IN BOOK

- Ramachandra. T.V., SubashChandran M.D., **Rao, G. R.**, Vishnu D.M., Joshi N.V. (2016). Floristic Diversity in Uttara Kannada District, Karnataka. In Biodiversity in India. (eds.) T.Pullaiah & S. Sandhya Rani. Regency Publications. New Delhi.
- **Rao G. R.**, Diwakar K. Mesta, SubhashChandran, M.D. and Ramachandra T.V., 2008. Wetland flora of Uttara Kannada, In Environment Education for Ecosystem Conservation, Ramachandra (ed.), Capital publishing company, New Delhi, Pp 152-159.
- Ramachandra, T. V and **Rao G.R.** 2005. Inventorying, Mapping and Monitoring of Bioresources using GIS and Remote Sensing, In *Geospatial technologies for developmental planning*, Ramaswamy S M, Kumanan C J, Palanivel K and Bhoop Singh (eds), pp 49-76

PAPERS IN CONFERENCE/SYMPOSIA

International Level

- **Rao, G. R.**, M. D. SubashChandran, and T. V. Ramachandra. (2016). Vegetation Studies in Sacred and Non-Sacred Groves of Central Western Ghats. Biennial symposium - Lake 2016: International Conference on Conservation and Sustainable Management of Wetland Ecosystems in Western Ghats, Mangalore. Organized by Centre for Ecological Sciences, Indian Institute of Science, Bangalore.
- **Rao, G. R.**, M. D. SubashChandran and T. V. Ramachandra. (2015) Diversity and Regeneration Status of Medicinal Plants in Medicinal Plants Conservation Area (MPCA) at Shirgunji of Uttara Kannada District, Central Western Ghats. International Conference on "Medicinal Plants and Herbal Drugs for Human Welfare" (ICMP-2015). Centre for Advanced Studies in Botany University of Madras, Guindy Campus Chennai – 600 025, India.

National Level

- **Rao G.R.**, Krishnakumar G., SubashChandran M.D. and Ramachandra. T.V, 2014. THREATENED TREE SPECIES OF SWAMPS AND RIPARIAN HABITATS OF CENTRAL WESTERN GHATS. National Conference on Conservation and Management of Wetland Ecosystems, 13th - 15th November 2014, Centre for Ecological Sciences, Indian Institute of Science, Sirsi, Uttara Kannada, Karnataka.
- **Rao G.R.**, Krishnakumar G., SubashChandran M.D. and Ramachandra. T.V, 2012. Seasonal Wetland Flora of the Laterite Plateaus of Coastal Uttara Kannada., Proceedings of the LAKE 2012: National Conference on Conservation and Management of Wetland Ecosystems, 06th - 09th November 2012, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, pp. 1-9.
- Chandran M. D. S., **G. R.Rao**, Prakash Mesta., Bharath H. Aithal., Uttam Kumar and Ramachandra TV. 2011. Landslides in Coastal Uttara Kannada: Management towards risk reduction. *Journal of Applied Disaster Research*, Disaster, Risk Vulnerability

Conference 2011. (DRVC 2011), School of Environmental Sciences, Mahatma Gandhi University. March 12-14, 2011, pp.7-22.

- SubashChandran M. D., **Rao G. R.**, Ramachandra T. V., 2010, Western Ghats: Need for Locating, studying and conserving relic forests. In the proceedings of the Lake
- 2010: Wetlands, Biodiversity and Climate Change, 22-24 December, SatishDhawan Auditorium, Indian Institute of Science, Bangalore.
- **Rao G. R.**, SubashChandran M. D., Ramachandra T. V., 2010, Uttara Kannada - A journey with plants and their life from coast to uplands. In the proceedings of the Lake 2010: Wetlands, Biodiversity and Climate Change, 22-24 December, SatishDhawan Auditorium, Indian Institute of Science, Bangalore.
- **Rao G. R.**, Archana Singh., Ramachandra T. V., 2010, Plant diversity along altitudinal elevations in three watersheds of Western Himalayas. In the proceedings of the Lake 2010: Wetlands, Biodiversity and Climate Change, 22-24 December, SatishDhawan Auditorium, Indian Institute of Science, Bangalore.
- **Rao, G. R.**, Krishnakumar G., SubashChandran., M. D. and Ramachandra, T. V., 2010, Last abodes of relic species in Uttara Kannada-Sacred groves and their silent extinction. In the proceedings of the Lake 2010: Wetlands, Biodiversity and Climate Change, 22-24 December, SatishDhawan Auditorium, Indian Institute of Science, Bangalore.
- SumeshDudani., SubhashChandran M. D., **Rao G. R.**, Vishnu Mukri, Harish Bhat, Ramachandra T. V., 2010, Biodiversity, Ecology and Socio-Economic Aspects of Gundia River Basin. In the proceedings of the Lake 2010: Wetlands, Biodiversity and Climate Change, 22-24 December, SatishDhawan Auditorium, Indian Institute of Science, Bangalore, Web link: <http://wgbis.ces.iisc.ernet.in/energy/lake2010/Theme 1/>
- Ramachandra, T.V., Pankaj Kumar Mohanta and **Rao, G. R.**, 2002. Species level mapping through hierarchical classification approaches, Conference: National Symposium on Advances in Remote Sensing Technology with special emphasis on high resolution imagery, 11-13, December 2001, SAC, Ahmedabad, Organised by Indian Society of Remote Sensing.
- Jagadeesh, K., **Rao, G. R.**, Kiran, M. K. Jagadish, K.S., Ramachandra, T.V. (2001) Mapping of fuel wood trees in Kolar District using Remote sensing data and GIS. In: Spatial technologies for natural hazards management; proceedings of ISRS National Symposium; 396-408. <http://ces.iisc.ernet.in/energy/paper/fuelwood/fuelwood.html>
- Madhu, M.K., Kiran, M.K., **Rao, G. R.**, and Ramachandra, T. V. (2000). Regional Bioresource Inventorying Using GIS and Remote Sensing Data with Classification Tree Approaches. Conference: National Symposium on Remote sensing application for Natural Resources, 22-24, march 2000, Bhubaneshwar, Organised by Indian Society of Remote Sensing (ISRS).

POSTER PRESENTATIONS IN CONFERENCE/SYMPOSIA

- **Rao G.R.**, SubashChandran M.D. and Ramachandra. T.V, 2016. Yelakundli sacred grove-A little understood Antique forest patch from Central Western Ghats. Biennial symposium - Lake 2016: International Conference on Conservation and Sustainable Management of Wetland Ecosystems in Western Ghats, Mangalore. Organized by Centre for Ecological Sciences, Indian Institute of Science, Bangalore.
- Vishnu D Mukri., **Rao G.R.**, SubashChandran M.D. and Ramachandra. T.V, 2016. A Thing of Antiquity, Lost for Ever- Lost or Forgotten Kans (sacred groves) of Central Western Ghats. Biennial symposium - Lake 2016: International Conference on Conservation and Sustainable Management of Wetland Ecosystems in Western Ghats, Mangalore. Organized by Centre for Ecological Sciences, Indian Institute of Science, Bangalore.
- **Rao G.R.**, Krishnakumar, G., SubashChandran M.D. and Ramachandra. T.V, 2014. IN SEARCH OF THE LOST (LAST) WORLDS OF *SYZYGIIUM TRAVANCORICUM*

SWAMPS.National Conference on Conservation and Management of Wetland Ecosystems, 13th - 15th November 2014, Centre for Ecological Sciences, Indian Institute of Science, Sirsi, Uttara Kannada, Karnataka.

- Vishnu D Mukri, **Rao G.R.**, SubashChandran M.D. and Ramachandra. T.V, 2014. FRUIT AND SEED DIVERSITY IN WET EVERGREEN RAIN FOREST AND DECIDUOUS FORESTS IN CENTRAL WESTERN GHATS. National Conference on Conservation and Management of Wetland Ecosystems, 13th - 15th November 2014, Centre for Ecological Sciences, Indian Institute of Science, Sirsi, Uttara Kannada, Karnataka.
- Prakash N. Mesta., M. D. SubashChandran., **G. R. Rao.**, T. V. Ramachandra., Settur Bharath and Vishnu D.M. (2014) STATUS OF MANGROVE WETLANDS IN HONAVAR FOREST DIVISION, KARNATAKA STATE. Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.

RESEARCH REPORTS

- Ramachandra T V, SubashChandran M.D., Vinay, S., Sudharshan P Bhat., Vishnu D. Mukri., **Rao G.R.**, ShrikanthNaik., Bharath H Aithal. (2016). Sacred Groves (Kans) of Sagara Taluk, Shimoga District. Sahyadri Conservation Series 54, *Envis technical report*: 102. CES, Indian Institute of Science, Bangalore 560012.
- Ramachandra T V, Harish R. Bhat, Bharath H. Aithal, **Rao G.R.**, Sudarshan P. Bhat, Vinay S., Ganesh Hegde, Gouri Kulkarni, Vishnu D. Mukri, (2015). Biodiversity, Ecology, Energy, Landscape Dynamics and Hydrology of Agastya Foundation Campus, Kuppam, ENVIS Technical Report 89, CES, Indian Institute of Science, Bangalore 560012.
- SubashChandran M.D., Ramachandra T V, Joshi, N.V., Akhil, C. A., **Rao G.R.**, Vishnu D. Mukri., (2015). Conservation and Resource augmentation of medicinal plants in Karikanamma forest, Honnavar forest division, Uttara Kannada District. Sahyadri Conservation Series 49, *Envis technical report*: 94. CES, Indian Institute of Science, Bangalore 560012.
- Ramachandra T V, SubashChandran M.D., Joshi, N.V., **Rao G.R.**, Vishnu D. Mukri.,(2015). Forest status and medicinal flora studies in Jankadkal and Shirgunji MPCA area, Uttara Kannada. Sahyadri Conservation Series 46, *Envis technical report*: 84. CES, Indian Institute of Science, Bangalore 560012.
- SubashChandran M.D., **Rao G.R.**, Ramachandra T V. (2015). Conservation of fragmented forests in Banavasi range, Sirsi Forest division, Kanara Circle. Sahyadri Conservation Series 50, *Envis technical report*: 97. CES, Indian Institute of Science, Bangalore 560012.
- Ramachandra T V, Durga Madab Mahapatra., SubashChandran M.D., Sincy V., Asulabha K.S., **Rao G.R.**, Vishnu D. Mukri., Akhil, C. A. (2015). Rejuvenation and Sustainable management of Gokarna Temple pond-Kotiteertha. Sahyadri Conservation Series 52, *Envis technical report*: 99. CES, Indian Institute of Science, Bangalore 560012.
- Ramachandra T V., Bharath H. Aithal., Vinay, S., **Rao G.R.**, Gouri Kulkarni, Tara N.M., Nupur Nagar. (2015). Trees of Bangalore. *Envis technical report*: 75. Karnataka State Pollution Control Board & CES, Indian Institute of Science, Bangalore 560012.
- **..Rao G.R.** et. al. INTEGRATED ECOLOGICAL CARRYING CAPACITY OF UTTARA KANNADA DISTRICT, KARNATAKA. (2014) ENVIS Technical Report: 71. Sahyadri Conservation series 41. Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- Ramachandra T.V., SubashChandran, M.D., Joshi, N.V., **Rao G. R.**, Vishnu D. Mukri., Sumesh N. Dudani., Balachandran C., Prakash N. Mesta., and SreekanthNaik. 2013.

FLORISTIC DIVERSITY IN UTTARA KANNADA DISTRICT, KARNATAKA STATE, CENTRAL WESTERN GHATS. ENVIS Technical report: 62, Sahyadri conservation series 32. Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.

- Ramachandra T.V., SubashChandran M.D., Surya Prakash Shenoy H., **Rao G. R.**, Vinay S., Vishnu Mukri and SreekanthNaik, (2013) Kumaradhara River Basin, Karnataka Western Ghats: Need for Conservation and Sustainable Use., Sahyadri Conservation Series 24, ENVIS Technical Report : 54, Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- Ramachandra T. V., SubashChandranM. D., Joshi N.V., BharathSettur, **G. R. Rao** and Prakash N. Mesta. (2013) ECOLOGICALLY SENSITIVE REGIONS IN UTTARA KANNADA. Envis Technical report: 67. Sahyadri conservation series 37. Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- Ramachandra T.V, SubashChandran M.D., Sudarshan P. Bhat., Bharath H. Aithal., **Rao G. R.** and Vishnu Mukri, 2013. Status of Forest in Shimoga District, Karnataka., Sahyadri Conservation Series 23, ENVIS Technical Report : 53, May 2013, Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- Ramachandra T.V., N.V. Joshi., Uttam Kumar., GautamKrishnadas., **Rao G. R.**, Bharath H. Aithal., BharathSettur., Rajasri Ray., Shwetmala., Dhanpal G., Gururaja K V and Amit S. Yadav, 2013. Ecological Modelling and Energy DSS., CES Technical Report : 131, Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
doi:http://wgbis.ces.iisc.ernet.in/biodiversity/pubs/ces_tr/TR131/index.htm
- Ramachandra T.V., **Rao G. R.**, 2012 Biological Diversity, Ecology and Environment Impact Assessment with Mitigation Measures: Hubli-Ankola New Broad Gauge Railway Line. CES Technical report Report-125. Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- SubashChandran, M.D., Ramachandra T.V., Joshi, N.V., **Rao G.R.**, Prakash N. Mesta., Balachandran C., Sumesh N. Dudani. 2012. CONSERVATION RESERVE STATUS TO LATERITIC PLATEAUS OF COASTAL UTTARA KANNADA. ENVIS Technical report: 51. Sahyadri Conservation Series 21. Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- T.V. Ramachandra., M.D. SubashChandran., AnanthAshisar., **Rao G. R.**, BharathSettur., Bharath H. Aithal., SreekanthNaik and Prakash N. Mesta. 2012. Tragedy of the Kan Sacred Forests of Shimoga District: Need for Urgent Policy Interventions for Conservation., CES Technical Report : 128, Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
doi:http://wgbis.ces.iisc.ernet.in/biodiversity/pubs/ces_tr/TR128/index.htm
- SubashChandranM. D., Prakash N. Mesta., M. Boominathan., **G. R.Rao.**, D.M. Vishnu and Ramachandra T. V (2012) AGHANASHINI ESTUARY IN KUMTA TALUK, UTTARA KANNADA-BIOLOGICAL HERITAGE SITE. ENVIS Technical report-35. Sahyadri conservation series-11. Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- Ramachandra. T.V., SubashChandran M.D., **Rao G. R.**, Amit Yadav., Gururaja KV., Karthick B., Uttam Kumar., Durga Madhab Mahapatra and Vishnu D.M, 2012. Ecological status of DandeliAnshi Tiger Reserve., ENVIS Technical Report: 43, Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- Ramachandra T.V., SubashChandran M.D., Joshi N.V., PallavJulka., Uttam Kumar., Bharath H. Aithal., Prakash Mesta., **Rao G. R.** and Vishnu Mukri, 2012. Landslide

Susceptible Zone Mapping in Uttara Kannada, Central Western Ghats., ENVIS Technical Report : 28, Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.

- SubashChandran M.D., Prakash Mesta., Boominathan M., **Rao G.R.**, Vishnu D.M and Ramachandra. T.V, 2012. Aghanashini Estuary in Kumta Taluk, Uttara Kannada - Biological Heritage Site., ENVIS Technical Report : 35, Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- **Rao G. R.**, SubashChandran M.D., Vishnu Mukri., Prakash Mesta and Ramachandra. T.V, 2012. Grasslands of Anshi-Dandeli Tiger Reserve., ENVIS Technical Report: 36, Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- SubashChandran M.D., **Rao G. R.**, Prakash Mesta, Vishnu D.M and Ramachandra. T.V, 2012. Green walls for Karnataka sea coast, ENVIS Technical Report: 34, Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- Ramachandra T.V., SubashChandran M.D., Joshi N.V., Sooraj N.P., **Rao G.R.**, and Vishnu Mukri, 2012. Ecology of Sacred *Kan* Forests in Central Western Ghats., Sahyadri Conservation Series 15, ENVIS Technical Report : 41, Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- Ramachandra T. V., SubashChandran, M. D., Harish R Bhat., **Rao G. R.**, Sumesh D., Vishnu Mukri and Boominathan M, (2010). Biodiversity, Ecology and Socio-Economic Aspects of Gundia River Basin in the context of proposed Mega Hydro Electric Power Project, CES Technical Report 122, CES, IISc, Bangalore.
- Ramachandra T.V., SubashChandran, M.D., **Rao G. R.**, Amit Yadav, Gururaja K.V., Karthick B.V., Uttam Kumar., Durgamadab Mahapatra. (2009). ENVIS Technical Report-43: Ecological status of Dandeli Anshi Tiger Reserve. Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.
- Amit S. Yadav, Gururaja K.V., Karthik B., **Rao G. R.**, Vishnu Mukri, SubashChandran M.D. & Ramachandra T.V., 2008. Ecological Status of Kali River Flood Plain, ENVIS Technical Report: 29, Environmental Information System, Centre for Ecological Sciences, Bangalore.
- Gururaja K.V., Sreekantha, Sameer Ali, **Rao G. R.**, Vishnu D. Mukri, and Ramachandra T.V., 2007. Checklist of freshwater fishes of Nethravathi River and Kumaradhara Rivers, In: CES Technical report 116, CES, IISc, Bangalore
http://www.ces.iisc.ernet.in/biodiversity/pubs/ces_tr/TR-116
- Gururaja K. V., Sreekantha., Sameer Ali., **Rao G. R.**, Vishnu, D. Mukri and Ramachandra T. V. 2007. Biodiversity and Ecological significance of Gundia river catchment. CES Technical Report 116.
- Mangroves of Honavar Forest Division, M. D. SubhashChandran, Divakar K. Mesta, **G. R. Rao**, Sameer Ali, Prakash Mesta, & Vishnu D. M., Karnataka Forest Department Project report May 2006.
- Sameer Ali., **Rao G. R.**, Divakar K. Mesta, Sreekantha., Vishnu D. Mukri., SubashChandran, M.D., Gururaja K.V., Joshi, N.V. and Ramachandra T.V., 2006. Ecological status of Sharavathi valley wildlife sanctuary, Sahyadri Conservation Series 1, ENVIS Technical Report 19, Environmental Information System, Centre for Ecological Sciences, Bangalore.
- Ramachandra T.V, SubashChandran M.D, **Rao G.R.**, Sreekanth., Divakar Mesta., Sameer ali., Gururaj K.V., Suresh S., Sanjeev Kumar Jha., Pankaj Kumar Mohanta., Lakshminarayana H., Vishnu D. Mukri., Sudhir H.S., Rajinikanth R., Ahalya N., Sanjeev N.K., Ajay Narendra., Raushan Kumar., Shalini Kumar., Srinivas Reddy., PallavJulka., Desai S.R., SanjeevNayak., Subramanian K.A., Satish Kumar R., Mahesh Babu.,

SubhashBabu., Sanil Kumar., Singh S.N CAI Final Report- Volume I & II. Cumulative Impact Assessment in The Sharavathi River Basin, Sponsored by: Karnataka Power Corporation Limited, GoK (Based on Field investigations during 1st Oct 2000-31st Oct 2001 and 15th May 2002 – 31st July 2003). Energy & Wetlands Research Group, Centre for Ecological Sciences, Indian Institute of Science, Bangalore 560 012.

OTHER PUBLICATIONS- Reports

- Ramachandra T.V., Joshi N V, Gururaja K V., **Rao G R**, 2008. Above ground biomass and biomass productivity of three micro watersheds across altitudinal gradients in western Himalaya, Ministry of Science and Technology, DST, Government of India.
- Ramachandra T.V., Joshi N.V., Gururaja K.V., Dhanapal G., **Rao G R**, Vishnu Mukri, 2008. Floral and faunal distribution in three selected micro watersheds of Western Himalaya, Ministry of Science and Technology, DST, Government of India.
- SubashChandran M.D., Ramachandra T.V., Joshi N.V., **Rao G.R.**, Prakash N. Mesta., Balachandran C., Sumesh N. Dudani. (2012). *Proposal for Conservation of Two Lateritic Plateaus of Coastal Uttara Kannada.*, C.E.S., I.I.Sc., Bangalore.

NEWSLETTERS

- **Rao G.R.**, Discovery of Two Critically Endangered Tree Species and Issues Related to Relic Forests of the Western Ghats. http://wgbis.ces.iisc.ernet.in/biodiversity/sahyadri_enevs/newsletter/issue28/index.htm
- Ali., S, **Rao G.R.**, Mesta, D.K., Sreekantha, Mukri., V.D., SubashChandran, M.D., Gururaja, K.V., Joshi N.V. and Ramachandra T.V. 2006, Ecological Status of Sharavathi Valley Wildlife Sanctuary, Ecological Conservation E-News, Issue 1, http://ces.iisc.ernet.in/hpg/envis/sdev/sus_enevs/index.htm
- **Rao G.R.**, 2006. Graceful Orchids. Sahyadri E-news, Newsletter-issue 18 http://wgbis.ces.iisc.ernet.in/biodiversity/sahyadri_enevs/newsletter/issue18/article1.htm
- Bangalore trees (Kannada version). 2013. Sahyadri E-news, Issue 44. http://wgbis.ces.iisc.ernet.in/biodiversity/sahyadri_enevs/newsletter/issue44/index.htm

PRINT MEDIA AND E-NEWS

- Researchers find new plant species in coastal K'taka. JUL 30 2019. Read more at: <https://www.deccanherald.com/city/life-in-bengaluru/researchers-find-new-plant-species-in-coastal-ktaka-750632.html>
- **Scientists discover a new species of paddle pod plant in Coastal Karnataka.** November 13, 2017 in *Research Matters*
- A new plant species. NOV 06 2017. Read more at: <https://www.deccanherald.com/content/641291/naturebites.html>
- Ramachandra T.V., SubashChandran M.D., SumeshDudani., Harish R.Bhat., **G. R. Rao** and Vishnu Mukri, 2011, Gundia river basin in Karnataka: Hottest Hotspot of Biodiversity, The Hindu Survey of the Environment 2011, Pp. 66-70.

WORKSHOP ATTENDED

- Three days online workshop on **BASICS OF BIOLOGICAL DATA HANDLING USING ‘R’**. 24-26 August, 2020. *Biologia Life science*, Maharashtra.
- Attended **Orientation for teachers** on Advanced researches in various disciplines of Science on 11-02-2019 by Transdisciplinary University, FRLHT, Bengaluru.
- Attended **Faculty orientation Program** for students -Training of trainers (TOT). held from 30.05.2019-01.06.2019, organized by UGC, South-West region office, in Indian Institute of Science, Bengaluru
- **ESSENTIALS IN PLANT REVISIONARY STUDIES AND FLORA WRITING**. 1st to 3rd DECEMBER, 2016. Organized by Naoroji Godrej Centre for Plant Research (NGCPR) Shirwal. In Collaboration with Botanical Survey of India, Western Regional Centre, Pune. Venue: Botanical Survey of India, WRC, Pune.

INVITED LECTURES/TRAINING/TEACHING PROGRAMMES

- **Invited lecture and Forest training programme** for frontline forest officials on wild medicinal plants identification techniques & forest plant identification, on 04-10-2021 in Lakkavalli, Chikmagalur, Karnataka, organised by Karnataka medicinal board authority (KAMPA) and Karnataka forest department, Aranya Bhavan, Bangalore.
- Invited webinar talk on: **Know Your Plants-Exploring plants around you**. ENVIS - Environment Education Outreach Program, Government of India, Pre-Lake 2020 Conference - “ Know Your Ecosystem” & display in YOUTUBE programme.
- As **Resource person** in one day orientation program in plant Raw drug identification and herbarium technique. 28th Jan-2019, Transdisciplinary health science (TDU), Bengaluru.
- As **Resource person** in “Valuation of ecosystem services and Green GDP”. 10-11th August. 2018. CES, IISc, Bangalore
- Invited talk in **All India Radio (AIR), Prasara Bharathi**, Akaashvani, Bangalore, Radio programme on ‘On Ecological Aspects of forest in Central Western Ghats’ (07-03-2015).
- **Invited talk** on Biodiversity and conservation of Western Ghats for World Wetland Day in Govt. High School, Aghanashini, Kumta, Karnataka, India(2nd February 2017).
- **Invited talk** on Biodiversity and conservation of Western Ghats for World Wetland Day in Govt. High School, Aghanashini, Kumta, Karnataka. (2nd February 2017).
- **Invited talk** in Methods in Vegetation Studies-Student Project Evaluation workshop. October-2016, St. Aloysius College, Mangalore.
- **Invited talk** on Mangroves (World Mangrove Day) in Shree Babhru Lingeshwar Vidyalaya, Lukkeri, Masooru, Kumta, Karnataka (26th July 2015).
- **Invited lecture, & workshop** on Western Ghat Biodiversity for college students organized by Karnataka forest department (2015). Honnavar division, Karnataka.
- **Invited lecture** for school students on Forest diversity & conservation (2015), organised by Agasthya foundation, Kuppam, A.P.
- **Invited talk** in Workshop on Malenaada Keregala Samrakshane (Western Ghats Lake conservation) on 17th March 2014 in Sonda Swarnavalli Matha, Sirsi, Karnataka, India.
- **Invited lecture** for Village forest committee (VFC) members for medicinal plants conservation. Katgal range (2013). Kumta, Uttara Kannada, Karnataka, India.
- **Invited lecture and field workshop** for Balliga college science students on Coastal vegetation, Kumta, Uttara Kannada (2013), Karnataka, India.
- **Invited lecture and Training programme** for forest officials on wild medicinal plants identification techniques. Aranya Bhavan (2013). Bangalore.
- **Invited lecture, workshop, and trek** for ‘ParisaraJaata’ for college students in *Myristica* swamp forests in Honnavara forest division organized by Karnataka forest department. Honnavar division, Karnataka (2012& 2014).

- **Workshop on Sacred grove:** Peoples participation in natural resource management, 18th July 2011, in Madhuvan Aradhana Sabhangana, Sirsi, Karnataka.
- **Invited talk** in My Village Biodiversity Documentation, 29th November 2011. Vibhava Palace Hall, Kumta.
- **Invited lecture and Training programme** for forest officials for forest vegetation identification and sampling techniques (2010). Honnavar, Uttara Kannada, Karnataka, India.
- **Invited lecture** for college students on Forest diversity and conservation, organised by CEE, Bangalore in Kulgi Nature Camp, Dandeli, Karnataka.