

DR. KAVITHA SAGAR M.Sc., B.Ed., M.Phil, Ph.D, PDF

Assistant Professor
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Education

Ph.D. (2008): Department of P.G. Studies and Research in Botany. Gulbarga University, Kalaburagi. Antidermatophytic and other Pharmacological activities of *Caesalpinia bonducella* (L.) Flem.

M.Phil. (2004): Department of P.G. Studies and Research in Botany. Gulbarga University, Kalaburagi Screening of Aspergillus species for the production of amylase.

M.Sc., : (2002). Department of P.G. Studies and Research in Botany. Gulbarga University, Kalaburagi
B.Ed., (1999). Kotturswamy College of Education, Ballari.

Professional Experience

Assistant Professor , Department of Botany, Vijayanagara Sri Krishnadevaraya University, Ballari, from September 2018.

Principal investigator. Funding agency -Karnataka Biodiversity Board, Bengaluru. (2019-2021) . Total grant 10 lakhs. Title of the project “Alien Weed flora of Karnataka”.

Post Doctoral Fellow (2012-17): Women Scientist Scheme, UGC, New Delhi, Herbarium, University of Agricultural Sciences, Gandhi Krishi Vigyan Kendra, Bengaluru.

Scientist (2010 to 2012) : Vidya Herbs Pvt. Ltd., Jigani Industrial Area, Bengaluru.

Research Associate (2008 to 2010): Central Institute of Medicinal and Aromatic Plants (CIMAP), Bengaluru, India.

Projects grants

Principal investigator. Funding agency -Karnataka Biodiversity Board, Bengaluru. (2019-2021) . Total grant 10 lakhs. Title of the project “Alien Weed flora of Karnataka”.

Awards

Post Doctoral Fellowship , Women Scientist Scheme, UGC, New Delhi. 2012-2017. **No. F-15-20/SA-II/2011 of 30 lakhs.** at Botanical Garden & Herbarium, Gandhi Krishi Vigyan Kendra, Bengaluru.

International travel grant

CSIR International travel grant No. TG/4893/10/ HRD to attend and present paper on “Invasive alien weeds as a dimension of floristic change in the humid tropics of north east India” at International conference on “New Frontiers in Plant Systematics and Evolution” Organized by BSC, CAS and IAPT in **Beijing ,China**, from 7th-9th July 2010.

Professional activities

Coordinator (2018-2-19) : Department of Studies in Botany, Vijayanagara Sri Krishnadevaraya University, Ballari.

Chairman, BOE (2018-19): Department of Studies in Botany, Vijayanagara Sri Krishnadevaraya University, Ballari.

Invited as a **panel member to judge** Debate competition organized by Karnataka sahitya Parishat, held at VijayaNagara College , Hosapete. 2018.

Invited as **subject expert** by Department of Botany, Veerashaiva Colleg, Ballari. 2018.

Delivered lecture at Govt. Ex-Municipal High School, Ballari. On the topic ‘Bio fuels’.2018.

Refresher course/ training programme

A two weeks “Science Academies Refresher course” in ‘Plant Taxonomy and Ethnobotany’ from 18th-31st January 2018. Organized by Yogi Vemana University, Kadapa, AP.

DST sponsored Workshop cum taxonomy training on traditional and modern approaches in Plant taxonomy. 12 days (15-26 February, 2010) organized by SMVIT Bengaluru.

Molecular biology Techniques training PCR, ISSR, ITS,RAPD, AFLP. at department of Biotechnology SMVIT, Bengaluru.

Membership of Scientific Societies/Associations

- ◆ Indian Association for Angiosperm Taxonomy (IAAT)
- ◆ Indian Botanical Society (IBS)
- ◆ Indian Society of Weeds Science (ISWS)

Research accomplishments

Research experience of 16 years (M.Phil & Ph.D) includes varied fields of Life Science. Plant Systematics & Conservation, documentation, herbarium preparation. Standardization of protocols (SOP) Skin-whitening activity (animal models) Standardization of protocols for anti-tyrosinase, anti-collagenase and anti-elastase activity. Anti-obesity activity (in vivo & in vitro). Study of Phyto-pharmacological properties of medicinal plants. My post doctoral experience has led to understand and examine biology of weeds, their impact of weeds on native flora, on soil, on yield of crops, invasive alien weed flora, resource utilization of weeds. Plant tissue culture.

Books published

Kavitha Sagar and MD Rajanna. 2015. ***A Handbook on Weeds of Karnataka***. Centre for Plant Taxonomic Studies. Bengaluru. ISBN 978-93-5196-500-8.

Publications (recent 10)

Kavitha Sagar. 2018. Weed flora of Karnataka-Current status and future prospects. World journal of pharmaceutical research. Vol 7(5); 1305-1311.

Kavitha Sagar and MD Rajanna. 2014. First report on antimicrobial efficacy of *Calyptocarpus vialis* Less. (An emerging aggressive weed). 50(1-4); 81-83.

R.R.Rao and **Kavitha Sagar**. "*Cassia uniflora* Mill. (Caesalpiaceae) – A new threat to Indian flora". Journal of Economic and Taxonomic Botany. No.1 of Vol 37 (2013) pp.62 - 65.

R.R.Rao and **Kavitha Sagar**. "Invasive alien weeds of Western Ghats: Taxonomy and Distribution" *Invasive Alien Plants: AN ecological Appraisal for the Indian Subcontinent*" (Eds J.R. Bhat et al.), 139-161, CAB International 2012.

R.R.Rao and **Kavitha Sagar**. "Resource utilization of invasive alien weeds of India : With special reference to Western Ghats" *Invasive Alien Plants: AN ecological Appraisal for the Indian Subcontinent*" (Eds J.R. Bhat et al.),189-198, CAB International 2012.

R.R.Rao and **Kavitha Sagar**. "Invasive alien weeds in tropics: The changing pattern in the herbaceous flora of Meghalaya in North East India" *Invasive Alien Plants: AN ecological Appraisal for the Indian Subcontinent*" (Eds J.R. Bhat et al.),271-261 , CAB International 2012.

Kavitha Sagar, Reethi B, Akshatha G and Shyam Prasad. "Antimicrobial Efficacy Of Some Natural Cosmeceuticals, Neutraceuticals And Medicinal Plant Extracts And Ultrastructural Alterations In Food Borne Pathogens". Intl. J of Pharmacy & Pharmaceutical Sciences., Vol 4, Suppl 1, 2012.

R.R.Rao and **Kavitha Sagar**. "Wild aromatic Plant species of western ghats :diversity, conservation and utilization". Proceedings of International seminar on "Multidisciplinary approaches in Angiosperm Systematics. ISBN: 978-93-5067-867-1; 2012.

Kavitha Sagar and G.M.Vidyasagar. Antimicrobial activity of α -(2-hydroxy-2-methylpropyl)- ω -[2-hydroxy-3-methylbut-2-en-1-yl] polymethylene- A compound from *Caesalpinia bonducella* (L.) Flem. Indian J. Pharm. Sci., 72 (4): 497-500. 2010.

R.R.Rao, R. Murugan and **S. Kavitha**. Botanical Conservatories and *ex situ* conservation of some Rare and Endemic Medicinal and Aromatic Plants: A case study from Western Ghats. *Proc. Nat. Acad. Sci. India*, Sect. B, Vol. 79 Pt. IV. 350-368, 2009.

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