

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

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Academic Details

Research Degree(s)

Degree	Title of Dissertation/Thesis	Date of award of thesis	University
M.Phil	Screening of <i>Aspergillus</i> species for the production of Amylase	17.11.2005	Gulbarga University
Ph.D	Antidermatophytic and other Pharmacological activities of <i>Caesalpinia bonducella</i> (L.) Flem	18.2.2008	Gulbarga University

WORK EXPERIENCE

Employer	Status of Institute/University	Post Held	Period of employment	
			From	To
VSK University Ballari, Karnataka	State Government	Assistant Professor	10.09.2018	
VSK University Ballari, Karnataka	State Government	Guest Faculty	04.07.2017	April 2018
Tumkur University, Tumakuru, Karnataka	State Government	Guest Faculty	02.08.2016	05.01.2017
Botanical Garden, UAS, GKVK, Bengaluru	State Government	Post Doctoral Fellow (UGC)	21.2.2012	21.2.2017
Vidya Herbs Pvt. Ltd, Jigani Industrial Area, Bengaluru	Private Limited	Scientist	4.5.2011	13.1.2012
Central Institute of Medicinal and Aromatic Plants (CIMAP), Bengaluru, India.	Central Government	Research Associate	21.4.2008	30.10.2010

NATURE OF WORK DONE :

Employer	Post Held	Nature of work
Botanical Garden, UAS, GKVK, Bengaluru	Post Doctoral Fellow (UGC)	<ul style="list-style-type: none"> + Plant Systematics & Conservation, Plant taxonomy, collection, documentation , herbarium preparation
Vidya Herbs Pvt. Ltd, Jigani Industrial Area, Bengaluru	Scientist	<ul style="list-style-type: none"> + Team leader + Antimicrobial activity of medicinal Plants against food borne microbes. + Standardization of protocols (SOP) + Skin-whitening activity (animal models) + Standardization of protocols for anti-tyrosinase, anti-collagenase and anti-elastase activity. + Anti-obesity activity of selected plants (in-vivo & in vitro)
Central Institute of Medicinal and Aromatic Plants (CIMAP), Bengaluru, India.	Research Associate	<ul style="list-style-type: none"> + Plant Systematics & Conservation, Plant taxonomy, collection, documentation , herbarium preparation

Field(S) Of Specialisation Under The Subject/ Discipline

- a) **Field of specialization at the Master's level :** Plant Tissue Culture & Genetic Engineering.
- b) **Areas of research during M.Phil. Course :** Fungal Biotechnology
- c) **Areas of research during Ph.D Course :** Plants, Microbiology and Pharmacology
- d) **Areas of research during Post Doctoral Fellow :** Plant Systematics & Conservation, Plant taxonomy, collection, documentation , herbarium preparation.

EXPERTISE :

- + Familiar with techniques used for *extraction, purification and biological activity evaluation*.
- + Sufficient confidence and experience in *collection, conservation, documentation and multiplication/propagation of endangered species*.
- + Gained sufficient knowledge in the *taxonomy and herbarium techniques and field biology*.
- + **Molecular biology Techniques PCR, ISSR, ITS, RAPD, AFLP.**
- + Sound knowledge in analysis of *phytochemical constituents of plants*.
- + Ability in screening of medicinal plants for *antimicrobial activity* (fungi and bacteria).
- + Familiar with *plant tissue culture techniques*.
- + Capable of *evaluating toxicity of plants in laboratory animals* (rats and mice).

- Ability to evaluate pharmacological properties of plants or drugs for **anti-inflammatory and analgesic activity**.
- Computer skills known: MS DOS, MS Office, Basic, MS Excel.

REFRESHER COURSES / ORIENTATION COURSE / METHODOLOGY WORKSHOP / TRAINING TEACHING LEARNING EVALUATION TECHNOLOGY PROGRAMME / SOFT SKILL DEVELOPMENT.

Sl. No.	Types of Course / Programme	Duration	Coordinator/ Deputy Coordinator/ Participant
1	A two weeks "Science Academies Refresher course" in 'Plant Taxonomy and Ethnobotany'	18 th -31 st January 2018.	Organized by Yogi Vemana University, Kadapa, AP from
1	DST sponsored Workshop cum taxonomy training on traditional and modern approaches in Plant taxonomy.	12 days (15-26 February, 2010)	Participant
2	Science Academie's two week Refresher course on Traditional and Modern Approaches in Plant Taxonomy.	15 days (15-29 November, 2012)	Participant
3	Molecular biology Techniques PCR, ISSR, ITS, RAPD, AFLP		Participant

EDUCATIONAL QUALIFICATION

Examination passed	Name of Institution where studied	University/Board Name	Year of passing	Class & % of marks	Main subject/Specialization
Ph.D	Department Research and studies in Botany, Gulbarga	Gulbarga University, Gulbarga	2008 Feb	Awarded	Antidermatophytic and other pharmacological properties of <i>Caesalpinia bonducella</i> (L.) Flem.
M.Phil	Department Research and studies in Botany, Gulbarga	Gulbarga University, Gulbarga	2003	First, 79.5%	Screening of <i>Aspergillus</i> species for the production of Amylase.
M.Sc.	Department Research and studies in Botany, Gulbarga	Gulbarga University, Gulbarga	2002	Second, 59%	Botany Specialization: Plant tissue culture
B.Ed	Sri. Kottur Swamy College of Education	Gulbarga University, Gulbarga	1999	First, 76.5%	Chemistry, Biology, Educational Psychology etc.

B.Sc.	Allum Sumangalamma Womens college, Bellary	Gulbarga University, Gulbarga	1998	Second, 65 %	Chemistry, Botany, Zoology
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MEMBERSHIP OF SCIENTIFIC SOCIETIES/ASSOCIATIONS

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

PUBLISHED PAPERS

Sl. No.	Title of Research Paper / Article with page nos.	Name Of The Journal
1.	Floristic Diversity Of Vijayanagara Sri Krishnadevaraya University Campus Ballari, Karnataka"	Indian Journal of Plant Sciences, 2018
2.	Screening of Aspergillus species for production of Amylase	Research Journal of Pharmacognosy and Phytochemistry, 2018
3.	Phytochemical studies and quantification of total content of phenols, tannins and flavonoids in selected endangered plant species	Research Journal of Pharmacognosy and Phytochemistry Vol 10(3); July-september 2018
4.	Most Aggressive weeds of Karnataka.	Accepted by Karnataka Biodiversity Board, Bengaluru.
5.	Weed Flora Of Karnataka – Current Status And Future Prospects	World journal of pharmaceutical research; 7(5) 2018
6.	Allelopathic effect of stragger daisy (An emerging and invasive weed) on associated flora. 7(1); 532-544	World journal of pharmaceutical research; 7(1); 2018
7.	Quantitative estimation of total phenols of Calyptocarpus vialis less. – an emerging weed in Karnataka.	Indian journal of Weed Science 48(4); 2016.
8.	Impact of invasive weeds on soil attributes at invaded sites.	Indian Journal of Weed Science 47(1); 75-79; 2015
9.	Impact of Invasive Alien siam weed and congress grass on Native Flora. pp.161-165.	Indian Journal of Weed Science 46(2); 2014
10.	First report on antimicrobial efficacy of Calyptocarpus vialis Less. (An emerging aggressive weed) 81-83.	My forest 50(1-4); 2014

11.	In vitro inhibition of mao-a & pla enzymes and antioxidant activity of important medicinal plants extracts.	International Journal of Life Sciences, Biotechnology and Pharma research 3(4); 2014
12.	<i>Synedrella vialis</i> Less. (Asteraceae) – Yet another new invasive weed to South India. pp. 869-872.	Journal of Economic and Taxonomic Botany 34(4); 2010.
13.	<i>Cassia uniflora</i> Mill. (Caesalpniaceae) – A new threat to Indian flora. Pp.62-65.	Journal of Economic and Taxonomic Botany 37(1); 2013.
14.	Anti - dermatophytic activity of some traditionally used medicinal plants of North Karnataka Region. pp. 77-83.	Journal of Applied Pharmaceutical Science, 3 (02); 2013
15.	Antimicrobial Efficacy Of Some Natural Cosmeceuticals, Neutraceuticals And Medicinal Plant Extracts And Ultrastructural Alterations In Food Borne Pathogens.	International Journal of Pharmacy and Pharmaceutical Sciences .Vol 4. Supl. 2012.
16.	Antimicrobial activity of α -(2-hydroxy-2-methylpropyl)- ω -[2-hydroxy-3-methylbut-2-en-1-yl] polymethylene- A compound from <i>Caesalpinia bonducella</i> (L.) Flem. Pp. 497-500.	Indian J. Pharmaceutical Sciences., 72(4); 2010
17.	Botanical Conservatories and <i>ex situ</i> conservation of some Rare and Endemic Medicinal and Aromatic Plants: A case study from Western Ghats.	Proceedings of National Academy Sciences. India Sect. B, Vol. 79 Pt. IV, 2009. Pp.350-368
18.	Anti-inflammatory and anti-nociceptive activity of ethyl acetate leaf extract of <i>Caesalpinia bonducella</i> (L.) Flem.- An Important Medicinal Plant. Pp. 48-52.	Journal of Medicinal and Aromatic Plants Sciences 2009.
19.	Evaluation of acute and sub acute toxicities of leaf extract of <i>Caesalpinia bonducella</i> (L.)Flem. Pp. 1-15.	International Journal of Pharma and Biosciences VI(1). 2009.
20.	Evaluation of antidermatophytic activity of α -(2-hydroxy-2-methylpropyl)- ω -[2-hydroxy-3-methylbut-2-en-1-yl] polymethylene - the compound isolated from <i>Caesalpinia bonducella</i> (L.) Flem.	The Internet Journal of Microbiology™ Vol 7, No.1, 2009.
21.	Structural alterations in plant compound treated <i>Trichophyton tonsurans</i> , 2009.	The Internet Journal of Microbiology™ Volume 7 Number 1. DOI: 10.5580/18b4, 2009.
22.	Identification of fungi associated with	Aryavaidyan

	stored crude plant drugs at Gulbarga market. Pp.100-105.	2004.
23.	“Invasive alien weeds of Western Ghats: Taxonomy and Distribution””; Pp;139-161; 27 pages	<i>Invasive Alien Plants: AN ecological Appraisal for the Indian Subcontinent</i> (Eds J.R. Bhat et al.), 139-161, CABI International 2012
24.	Invasive Alien weeds in the Tropics: the Changing pattern in the Herbaceous Flora of Meghalaya in North-East India. pp189 -198 09 pages	<i>Invasive Alien Plants: AN ecological Appraisal for the Indian Subcontinent</i> (Eds J.R. Bhat et al.), 139-161, CABI International 2012
25.	Resource utilization and Beneficial aspects of Invasive Alien weeds with special reference to the Western Ghats, India. 271 – 281. 10 pages	<i>Invasive Alien Plants: AN ecological Appraisal for the Indian Subcontinent</i> (Eds J.R. Bhat et al.), 139-161, CABI International 2012
26.	“Wild aromatic Plant species of western ghats :diversity, conservation and utilization”. 358-371; 2012.	XVIII Annual conference of IAAT and International Conference on Multidisciplinary approaches in Angiosperm Systematics” Kalyani university Kalyani, West Bengal .2008.

BOOK PUBLISHED

1. *A Handbook on Weeds of Karnataka*. 2015. Kavitha Sagar and Rajanna MD. Centre for Plant Taxonomic Studies. Bengaluru. ISBN 978-93-5196-500-8.
2. *Floristic diversity of Vijayanagara Sri Krishnadevaraya University campus, Ballari*. Kavitha Sagar.(In Press)

COMPLETED RESEARCH PROJECTS

S.N	Title	Agency	Period	Grant/Amount Mobilized (Rs. Lakhs)
1	“Weeds Invasion: Impact on native diversity of plant communities in Mysore district, Karnataka”	University Grants Commission WOMEN Scientist Scheme No. F-20-15/SA-II/2011/January 2011	Five years 21.2.2012 to 20.2.2017	30,00,000/-