

FACULTY PROFILE

Dr. KAVITHA GC

Assistant Professor
Department of Studies in Biotechnology
Davangere university
Davangere-577007

Qualification : M.Sc., M.Phil., Ph.D. KSET
Areas of Specialization : Biotechnology
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Vision

Promote the virtues of scientific methods, research and scholarly enquiry. So, Students can bring important critical thinking skills to their pursuits outside the University.

Educational Qualifications

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	PhD.	Biotechnology	Dr. Poornima D Tumkur university, Tumkur	2023
2	M.Phil.	Biotechnology	Dr. Riaz Mahmood Professor Department of Biotechnology Kuvempu University Shankaraghatta	2008
3	KSET	Life Science	KSET center University of Mysore Mysore	2017
4	PG	Biotechnology	Kuvempu University	2004
5	UG	Chemistry, Botany and Zoology	Kuvempu University	2002

Professional Details (Academic/Research Experience)					
Sl. No.	Designation	Institution/University	UG/PG	From	To
1.	Assistant Professor	Department of Studies in Biotechnology, Davangere University, Davangere.	PG	15 th July 2019	Present
2.	Assistant Professor	Amrutha ayurveda medical college and Hospital, Chitradurga.	--	2017	2019
3.	Guest Faculty	Government Science College, Chitradurga.	UG	2014	2019
4.	Lecturer	SJM College, Chitradurga.	UG	2005	2007

Areas of Research Interest:	
1.	Medicinal Plant Biotechnology
2.	Pharmaceutical Biotechnology
3.	Molecular Biology

Academic Responsibilities:	
1.	IQAC, Assistant Coordinator, DoS in Biotechnology, Davangere University, Davangere.
2.	Academic coordinator
3.	Student mentoring system coordinator
4.	BoS, BoE member
5.	Annual report committee member, Green audit committee member

Invited talk:

1. Invited as a Resource person to speak on the topic “Hypersensitivity reactions” at Amrutha Ayurvedic Medical College, Chitradurga on 8th February 2020.

Ongoing funded Project details:

Name of the Project	Name of the Principal Investigator	Name of the funding agency	Project title	Department	Year of Award	Funds provided	Duration of Projects
Major Project K-FIST L1	Dr. Kavitha GC – PI	VGST	Biotic Elicitors as key players in enhancing Luteolin yield in <i>Adenocalymma alliaceum</i> : From Discovery to Application	VGST, GoK	2024	20 Lakhs	02 Years

Research Publications:**a) International Journals**

1.	Kavitha GC et al. In Silico Study of Elaeocarpidine Binding to BDNF Receptor: A Promising Lead for Alzheimer’s Disease Treatment. International Journal for Multidisciplinary Research. 2025;IJFMR Special Issue:382-400. E-ISSN: 2582-2160
2.	Kavitha GC et al. In silico Analysis of Antibacterial Activity of Eclipta alba against Brucella melitensis: A Bioinformatics Approach. Letters in applied NanoBioScience. 2023;12(4):167. https://doi.org/10.33263/LIANBS124.167
3.	Kavitha GC et al. Management principles in agricultural activities- a study with specific reference to paddy crop in southern part of Karnataka. European chemical bulletin. 2023;12(S3):5545-5558 DOI: 10.31838/ecb/2023.12.s3.621
4.	Kavitha GC et al. Phytochemical investigations and <i>invitro</i> antioxidant potentials of <i>Adenocalymma alliaceum</i> . Neuro quantology. 2022;20(11):7685-7695 DOI: 10.14704/NQ.2022.20.11.NQ66765
5.	Kavitha GC et al. Hepatoprotective effect of <i>Adenocalymma alliaceum</i> leaves extract against ethanol induced toxicity in HepG2 cell line. Neuro quantology. 2022;20(7):2505-2513 doi: 10.14704/nq.2022.20.7.NQ33324

6.	Kavitha GC et al. Computational approach assessing the antibacterial activity of <i>Acorus calamus</i> against <i>Helicobacter pylori</i> . Letters in applied NanoBioScience. 2022;12(4):1-13 https://doi.org/10.33263/LIANBS124.091
7.	Kavitha GC et al. “Eco-friendly synthesis of MnO ₂ Nanorods using <i>Gmelina arborea</i> fruit extract and its anticancer potency against MCF-7 breast cancer cell line” International Journal of Nanomedicine. Dove press. 2022;7:901-907 doi: 10.2147/IJN.S335848
8.	Kavitha GC et al. Evaluation of Antimutagenic Potential of <i>Chrozophora rottleri</i> against Ems Induced Mutagenicity in Mice. Int J Pharm Sci. 2022;13(1):B125-133 http://dx.doi.org/10.22376/ijpbs.2022.13.1.B
9.	Kavitha GC et al. “Anti-hyperlipidemic effects of citrus fruit peel extracts against high fat diet-induced hyperlipidemia in rats” International Journal of Research in Pharmaceutical Sciences. JK Welfare & Pharma scope Foundation. 2021;12(3):2226-2232. DOI: https://doi.org/10.26452/ijrps.v12i3.4837
10.	Kavitha GC et al. “The Gag Reflex: A Hurdle in Dentistry”. Journal of Pharmaceutical Research International. 2021;33(46B):224-237 DOI: 10.9734/JPRI/2021/v33i46B32937
11.	Kavitha GC and Poornima D “Insecticidal efficacy of <i>Adenocalymma alliaceum</i> extracts against cowpea weevils <i>callosobruchus maculatus</i> (F) on stored <i>Vigna unguiculata</i> (L.)”. International Journal of Life science and Pharma Research. 2021;11:220-226 doi: http://dx.doi.org/10.22376/ijpbs/lpr.2021.11.2.L220-226
12.	Kavitha GC et al. “Smoking Carcinogens and Lung Cancer – A Review”. Asian Journal of Pharmaceutical and Clinical Research. 2021;14(1):5-12 DOI: http://dx.doi.org/10.22159/ajpcr.2021.v14i1.39811
13.	Kavitha GC, Riaz Mahmood and Pallavi M. “Estimation of total Phenolics, Flavonoid and <i>In Vitro</i> Antioxidant activity of <i>Chrozophora rottleri</i> ”. European Journal of Biomedical and Pharmaceutical Science. 2017;4:868-874
Book Chapters	
14.	Kavitha GC et al. Computational Models and Simulations in Neuroscience. Neuroinformatics Advances and Applications in Neuroscience Research. ISBN: 978-99993-3-206-4. Ä Eliva Press Global Ltd. part of Eliva Press S.R.L., 2025
15.	Kavitha GC et al. Biotechnology in Medicine: Advances-I. Fundamentals and Advances in Medical Biotechnology, M. Anwar et al. (eds.), Springer Nature Switzerland. 2022. ISBN: 978-3-030-98553-0; ISBN (eBook): 978-3-030-98554-7. https://doi.org/10.1007/978-3-030-98554-7_3p
16.	Kavitha GC et al. “Role of Viruses in Nanoparticles Synthesis”. Microbial Nanotechnology: Green Synthesis and Applications, M. A. Ansari, S. Rehman (eds.), Springer Nature. 2021;103-116 https://doi.org/10.1007/978-981-16-1923-6_6

Orientation/FDP

Orientation Programme:

1. Completed 4 week (4th June to 1st July 2020) Induction/Orientation Programme sponsored by MHRD Pandit Madan Mohan Malaviya, National Mission on Teachers and Teaching, Teaching Learning Centre, Ramanujan college, University of Delhi.

Refresher Course:

1. Completed online 2 week Refresher course in “BIOLOGICAL SCIENCES” from 19th to 31st January 2026, organized by UGC-Malaviya Mission Teachers training Centre, Karnataka University, Dharwad.
2. Completed online 2 week Refresher course in “LIFE SCIENCES” from 27th February to 13th March 2024, sponsored by UGC Human Resource Development centre, University of Mysore.
3. Completed online 2 week Refresher course in “LIFE SCIENCES” from 1st to 15th September **2021**, sponsored by MHRD Pandit Madan Mohan Malaviya, National Mission on Teachers and Teaching, Teaching Learning Centre, Ramanujan college, University of Delhi.

Faculty Development Programme (FDP):

1. Participated in one week “Faculty Development Program-2020” from 6th January to 13th January 2020 at Davangere University, Davangere, Karnataka, India.
2. Participated & completed successfully AICTE Training and Learning (ATAL) Academy online FDP on ‘Genome Engineering & Technology’ from 28/9/2020 to 02/10/2020 at University BDT College of Engineering, Davangere, Karnataka, India.
3. Completed two week Faculty Development Programme on Multimedia and Drawing” organised by Department of Computer Science, government First Grade College, Harihara in association with spoken tutorial IIT Bombay (An initiative of National Mission on Education through ICT, MHRD, Govt. of India) under the scheme of PMMMNMTT from 3rd June to 16th June 2020.
4. Participated in National level one week online Faculty Development Programme on “Impact of COVID-19 on Indian economy and industry” held from 14th to 20th May 2020 organised by Sangoli Rayanna First Grade Constituent College of Rani Channamma University, Belagavi, Karnataka, India.
5. Participated in seven days (22nd to 29th may 2020) International level Faculty Development Programme on “New paradigms of Teaching” organised by the PG

department of Commerce with Computer Applications, NGM College, Pollachi, Tamilnadu.

6. Participated in National Level online FDP on “New Performance Appraisal system & Career Advancement Scheme” held on 22nd may 2020 organised by IQAC cell, Seshadripuram Degree College.
7. Participated in National level one week online Faculty Development Programme on “Impact of COVID-19 on Indian economy and industry” held from 14th to 20th May 2020 organised by Sangoli Rayanna First Grade Constituent College of Rani Channamma University, Belagavi, Karnataka, India.

Conference/ Workshops/Trainings attended/organized:

International/National Conferences:

1. Participated and Presented a paper entitled “Elaeocarpidine as a receptor in Alzheimers disease” in the National conference on Artificial Intelligence (AI) AIMAR- 2025 held on 11th & 12th September 2025 in association with KSCST & KMF.
2. Participated and presented a paper entitled “Phytochemical and in vitro hypoglycemic potential of Adenocalymma alliaceum” in the International Microbiology Conference Microcosm 1.0 “Innovating Microbial solutions towards a sustainable future” organized by Dept. of Microbiology, JSSAHER, Mysore on 15th & 16th November 2024.
3. Participated and presented a paper entitled “Wound healing potentials of Citrus fruit peel extracts” in the “International Conference on Applications of Natural Products Nanomaterials and Nano-pharmaceuticals (ICAN3)” organized by School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, India In association with Nano and Biomaterials Association (NBA), The Biotech Research Society (BRSI), India and Centre for Surface Technology and Applications (CeSTA), Korea Aerospace University, Republic of Korea held on August 9 & 10, 2023.
4. Participated and presented paper entitled “Total phenolic flavonoid contents and Hepatoprotective effect of methanol leaf extract of Adenocalymma alliaceum” in two days international conference on Data Science, Communication Technology & Bioinformatics (ICDCB-2023) organized by the department of computer science, Electronics and Biotechnology, University college of Science, Tumkur University, Tumakuru on 24th and 25th March 2023.
5. Participated and presented a paper entitled “*In vitro* Cytotoxicity and glucose uptake activity of leaf of *Adenocalymma alliaceum* in C2C12 cell line” in the International Conference on

“Sustainable utilization of Bioresources” held on 10th to 15th January 2022 at Department of Botany, University of Kerala, Karyavattom, Thiruvananthapuram, Kerala, India.

6. Participated in the International E-Conference on “Recent research and Innovations in Life Sciences 2022- Nutraceuticals in healthy ageing” held on 3rd and 4th February 2022 at MMK & SDM Mahila Maha Vidyalaya, Mysuru.
7. Attended one week Live webinar series of international e- Conference in “Plant Sciences” held at Department of Studies in Botany, Davangere University, Davangere, Karnataka, India on 25th to 30th May 2020.
8. Participated in two days international e- Conference on “Atmanirbhar Bharat: Turn Crisis into an Opportunity” organized by the Department of Management Studies, VTU Belagavi, Karnataka, India on 20 & 21 August 2020.
9. Poster presentation on “Evaluation of *In Vitro* Antidiabetic activity of *Adenocalymma alliaceum*” National conference on “Present Scenario of Basic and Applied Bioscience” held on 25th February 2019, organized by Dept. of Zoology, Botany and Biotechnology, SJVP College, Harihar.
10. Poster presentation on “Evaluation of Phytoconstituents and Antidiabetic activity of *Adenocalymma alliaceum*” in the National conference on “New Horizons in Biological Science” held on 22nd and 23rd February 2019, organized by Dept. of Botany and Seed Technology, Sahyadri Science College, Kuvempu University.
11. Poster presentation on “Pharmacognostic and Phytochemical evaluation of aerial parts of *Adenocalymma alliaceum* Miser.” In the National conference on “Advances in Biotechnology” held on 29th January 2018, organized by Dept. of Biotechnology, University College of Science, Tumkur University.
12. State level conference on “Nano materials and their applications” held on 22nd February 2007, organized by Dept. of Chemistry, SJM College, Chitradurga.
13. ಧ್ವದೇಶಿ ವಿಜ್ಞಾನ ಆಂದೋಲನ-ಕರ್ನಾಟಕ, ಬೆಂಗಳೂರು ಮತ್ತು ದಾವಣಗೆರೆ ವಿಶ್ವವಿದ್ಯಾಲಯ, ದಾವಣಗೆರೆ ಇವರ ಸಂಯುಕ್ತ ಆಶ್ರಯದಲ್ಲಿ ಆಯೋಜಿಸಿರುವ 15 ನೇ ಕನ್ನಡ ಸಮ್ಮೇಳನ ಜರುಗಿದ ದಿನಾಂಕ 15-16 ನೇ ಸೆಪ್ಟೆಂಬರ್ 2019.

Workshops/Seminars/Symposium/Webinars Attended/organized:

Webinar organized:

1. Organized one day National webinar on “Tumor micro environment and therapeutic strategies” held on 16th June 2021.

Seminars:

1. Presented a Poster on “The *In vitro* Hepatoprotective activity of methanolic extract of leaf of *Adenocalymma alliaceum* against ethanol induced Hepato-toxicity in Hepg2 cell lines” in one day National Seminar on “Recent perspectives in Biotechnology Research” held on 31st March 2022 organized by the Department of Biotechnology, Kuvempu University, Shankaraghatta, Shivamogga.
2. Poster presentation on “Bioplastics from Natural resources” at National Seminar on ‘Strategies towards Environmental Decontamination’ held on 3rd march 2020 organised by Department of Studies and Research in Environmental Science, Tumkur University, Tumkuru, Karnataka, India.
3. Poster presentation on “Application of Nanotechnology in the Environmental Biotechnology” at National Seminar on ‘Strategies towards Environmental Decontamination’ held on 3rd march 2020, organised by Department Studies and Research in Environmental Science, Tumkur University, Tumkuru, Karnataka, India.

Workshops:

1. Participated in One day workshop on “Role of Digital Libraries in Academic research” held on 30th May 2020 at Central Library, Davangere University, Davangere, Karnataka, India.
2. Participated in Three days National Convention on “NEP 2020” held from 21st to 23rd September 2020 at Davangere University, Davangere, Karnataka, India.
3. Participated in one day Workshop on “Research Methodology” held from 2nd to 4th August 2007, organized by Kuvempu University.

Symposium:

1. National Symposium on “Biotechnology- current trends and Future Scenario” held on 10th and 11th March 2008, Organized by Dept. Of Biotechnology, Kuvempu University.

Webinars:

1. Participated in National Webinar series on “Biotechnology for Mankind” held from 16th to 30th June 2021 organized by the Department of Biotechnology and Bioinformatics, Davangere University, Davangere, Karnataka, India.
2. Participated in International Webinar series on “De-Covidizing Biotechnology Research 2020” held from 10th to 14th September 2020 organized by the Department of studies in Biotechnology, Kuvempu University, Shivamogga, Karnataka, India.
3. Participated in National Webinar on “Basics of Bioinformatics” held on 7th July 2020 organized by the Department of Zoology, KLEs PC Jabin Science College, Hubballi,

Karnataka, India.

4. Participated in one day National webinar on “Environmental Awareness and sustainability” held on 5th June 2020 organized by Department of Studies and Research in Environmental Science, University College of Science, Tumkur University, Tumkur, Karnataka, India.
5. International webinar on “Advancements in Chemical Sciences towards COVID-19” held from 12th to 13th June 2020 organized by Department of Chemistry, Rani Channamma University, Belagavi, Karnataka, India.
6. Participated International webinar on “Natural Products Development” held on 31st may 2020, organized by Department of Food technology Davangere University, Davangere, Karnataka, India.
7. International webinar on “Sustainable Development” held on 14th may 2020 conducted by Department of English Language, NGM College, Pollachi, Tamilnadu.

Achievements/Awards / Abroad visit / Professional Membership	
1.	Academic Excellence award NSF/AEA/2026/02, Nature Science foundation, Coimbatore, Tamil Nadu, India.
2.	Participated as Judge in Eco-Vision 2K26, State level environmental awareness event, organized by Dept. of Studies in Environmental science, Tumkur University, Tumkur.
3.	Rajiv Gandhi National Fellowship Award, UGC, New Delhi.

1.	Academic Excellence award NSF/AEA/2026/02, Nature Science foundation, Coimbatore, Tamil Nadu, India.
2.	Participated as Judge in Eco-Vision 2K26, State level environmental awareness event, organized by Dept. of Studies in Environmental science, Tumkur University, Tumkur.
3.	Rajiv Gandhi National Fellowship Award, UGC, New Delhi.