

Dr. DAKSHAYINI

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OBJECTIVE:

Committed and accomplished professor with seven years of experience in higher education, dedicated to fostering an engaging and inclusive learning environment. Seeking a position that allows me to utilize my expertise in Biotechnology to inspire and empower students while contributing to the academic community through research and curriculum development.

SUMMARY:

- ❖ 8 years of teaching experience.
- ❖ Completed doctoral degree.
- ❖ Around 4 years of experience in Research Field.
- ❖ First Class in MSc Biotechnology from Mangalore University, Mangalore.

TECHNICAL SKILLS:

- ✓ Excellent experience in “*in vitro* Culture”, day to day basis maintenance and monitoring of tissue culture laboratory, *in vitro* sterile techniques, culturing and sub culturing methods.
- ✓ Worked with callus and plant regeneration from *Pongamia*, *Cichorium intybus* (Chicory) and *Jatropa*.
- ✓ Ability to prioritise own work in response to deadlines.
- ✓ Expert in research skills
- ✓ Able to plan and organize the given task very effectively.
- ✓ Good experience in carrying out various experimental researches.
- ✓ Ability to solve problems independently.
- ✓ Familiar with equipments and system maintenance.
- ✓ Assisting in writing up for a project grant.
- ✓ Proficient in handling HPLC Instrument and also capable of handling other instruments like Atomic Absorption Spectroscope, UV Visible Spectrometer, Gel electrophoresis, GC- MS, Gel Documentation Unit, etc .
- ✓ Knowledge in spreadsheets, Refworks, Turnitin, Adobe Photoshop soft ware's.
- ✓ Knowledge in assisting in malarial research project (NIH research project).
- ✓ Expert in animal cell culture techniques- RT PCR and flow cytometry.

RESEARCH EXPERIENCE AND TEACHING EXPERIENCE:

Institution Name	Mangalore University (Temporary) -04 years
Duration	August 2019- current on going
Department	Biosciences (Biotechnology Program) (MSc students)

Institution Name	SVS, Bantwal (HOD) – 03 years
Duration	July 21-07-2016 to 30-04-2019
Department	Zoology department (Bsc)

Institution Name	K. S. Hegde Medical Academy, Deralakatte, Mangalore
Duration	May 25 th 2016 onwards to 01-04-2017, Project Assistant (Part Time)
Department	Central Research Laboratory

Institution Name	NMAMIT, Nitte, Karkala – 05 years
Duration	May 01, 2011 to till April 1 st 2016.
Designation	Research Scholar
Department	Biotechnology Engineering
PhD title	<i>In vitro</i> propagation of chicory (<i>Cichorium Intybus</i>) and study of its secondary metabolites of Pharmaceutical Importance.
Role	<ul style="list-style-type: none"> ✓ Area of expertise – Plant biotechnology, Molecular biology, Cell biology and Microbiology, Agricultural Biotechnology, Genetics and Genetic engineering, Developmental biology, Intellectual property rights and biotechnology. ✓ Attended various National and International conferences and presented the papers. ✓ Received fellowship from TEQIP (Phase II) between October 2013 till December 2014.

Institution Name	Mangalore University, Mangalagangotri, Konaje, Mangalore
Duration	March 01, 2010 to April 30, 2011
Designation	Technical Assistant
Department	Biotechnology
Role	<ul style="list-style-type: none"> ✓ Well versed with identification, collection of the fresh water bivalves from the Western Ghats region. (River Cauvery, payaswini, Aghanashini etc.) ✓ Carried on various biochemical tests for the fresh water bivalves. (NAIP ICAR Project). ✓ Worked on marine organisms mainly on oyster from coastal region and identification of oyster in coastal areas. ✓ Well versed with project bills, reports-[comparative statements, DC bills preparation, quotation for various instruments], monitoring all files regarding project. ✓ Prepared Technical reports for NAIP – ICAR projects.

ACADEMIC QUALIFICATION:

COURSE	NAME OF THE INSTITUTION	UNIVERSITY OR EXAMINING BODY	RESULT
Ph.D	NMAMIT, Nitte	VTU, Belgaum	Completed
MSc (Biotechnology)	Mangalore university, Mangalagangotri, Konaje.	Mangalore University	76.38%
BSc (BZC)	Sri Venkataramanswamy College, Bantwal Taluk, D.K District.	Mangalore University	78.53%

DISSERTATION WORKS UNDERTAKEN:

- Co-ordinator of People Biodiversity Project of 3 Grama Panchayat Rayee, sajipa nadu & sarapadi.
- Guided 12 students: Msc projects
- Adsorption of methylene blue by silver nanoparticles synthesized from *Urena lobata* leaf
- Isolation of silver nanoparticles from *Tecchoma sans*
- Isolation and characterization of silver nanoparticles from medicinal plant extracts.
- Adsorption of methylene blue by Fe nanoparticles synthesized from *Rhizophora mucronata* leaf
- Green synthesis corrosion inhibitors from *Rhizophora mucronata* leaf
- Wine production from wild jackfruit and its antibacterial activity
- Synthesis of gold nanoparticles and its biomedical applications.
- Synthesis of silver nanoparticles using plant extract and its applications in dye degradation.
- Final Year MSc Project : Induction of callus and somatic embryos from *Jatropha*, a Biodiesel Plant.
- Final Year BSc Project : Study of Marine Shells, Study of Sacred Grooves.
- Synthesis o

Paper Publication:

- ✓ Dakshayini and Ujwal P, RP-HPLC analysis for coumarin contents in *Cichorium intybus*-an important medicinal plant. Int. J. of Pharma and Biosciences, July-2014, pp-640-646.
- ✓ Dakshayini, Rao CV, Bhavyashree U, Karun. A, Ujwal P. High frequency plant regeneration and histological analysis of callus in *Cichorium intybus*- An Important Medicinal Plant. Journal of Phytology, 2016, pp-7-12.
- ✓ Dakshayini, Rao CV, Louella CG, Ujwal P. Optimization of direct shoot regeneration using leaf explants from *Cichorium intybus* by Response Surface Methodology. *In vitro* Cellular and Developmental Biology (Under communication).
- ✓ Dakshayini, Rao CV, Louella CG, Ujwal P. Optimization of shoot regeneration using leaf explants from *Cichorium intybus* by Box- Behnken Design. Indian journals of Advances in chemical science, 2016, pp-179-182.
- ✓ K. Sandesh, P. Ujwal, Blecita D. Mascarenhas,,Gayatri Dhamannavar, Narmada Kumar and Dakshayini, Design and Fabrication of Miniature Bubble Column Bioreactor for Plant Cell Culture, Springer Science+Business Media Singapore, 2016, 163-169.

- ✓ Dakshayini, Louella Concepta Goveas, Manohar Prasad, Ujwal P, Optimization of Direct Shoot Regeneration Using Leaf Explants from *Cichorium Intybus* by Response Surface Methodology, *Studies in Indian Place Names* (UGC Care Journal) ISSN: 2394-3114 Vol-40-Issue-74-March - 2020.
- ✓ Chaithanya, D, Dakshayini, Phani R S H, Development and validation of a new HPLC bio analytical internal standard method for the analysis of Faviparin in human plasma, INDIAN DRUGS- 2021, Abstract accepted.
- ✓ A review book chapter on "**A review on Post Covid-19 Situation: Rehabilitation of patients.**
- ✓ Javed v khan, Abhilash H A, Dakshayini, Green synthesis of silver nano particles through different approach and its antibacterial studies, International journal of life science and research, 2021, pp 48-51.
- ✓ Sujith A. M Gowda, Louella concepta Goveas, Dakshayini Adsorpttion of methylene Blueby silver nanoparticle synthesized from Urena lobata leaf extract: Kinetics and equilibrium and analysis, Elsevier, 2022
- ✓ Akash Sharma, Anil Kumar, Ajit Kiran Kaur, Dakshayini, Seena, Thelly, In depth review on Phytochemicals, taxonomy, botanical description and Physiological Significance of *Nelumbo nucifera*, Journal of Cardiovascular Disease Research ISSN: 0975-3583, 0976-2833 VOL 15, ISSUE 03, 2024
- ✓ Dakshayini, Kapil Raghuvanshi, Gyaneshwari Devarajan, Ujwal Kumar U, ROLE OF ARTIFICIAL INTELLIGENCE IN PHARMA SECTOR: A COMPREHENSIVE REVIEW, WORLD JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES, ISSN 2278 – 4357 Volume 13, , Issue 5, 1180-1202.
- ✓ Laveena K B, Deepa Shetty, Dakshayini, Green Synthesis of Silver Nanoparticles Using Leaf Extract of *Canavalia rosea* and Its Antibacterial Properties, International Journal of Novel Research and development, ISSN: 2456-4184, Volume 8, Issue 10 October 2023,

PATENT PUBLICATION:

1. System for validation a new HPLC Bio analytical Internal standard Method for analysis Favipiravir in Human Plasma
Chaitanya, Prasad, Umamaheshwar, Dakshayini, Varun

WORKSHOP AND CONFERENCES ATTENDED:

1. Attended two days National conference on " REACHING THE UNREACHED THROUGH SCIENCE AND TECHNOLOGY " and presented a poster on the topic – 'RSM method in tissue culture' held at Mangala Auditorium, Mangalore University on 8th and 9th September 2017on 27-12-2012, conducted by THE INDIAN SCIENCE CONGRESS ASSOCIATION, BANGALORE CHAPTER.
2. Attended two days National workshop on "IMPACTS OF TEQIP- 11 Assistantships for PG and Research Scholars, and presented an orally on the topic – 'Plant tissue culture' held at Malnad college of Engineering , Hassan on 19th and 20th September 2014.
3. Attended two days National seminar on Modern trends in botany: priorities and challenges and presented oral paper on the topic – "ISOLATION OF COUMARIN FROM *C. INTYBUS*" held at Dharwad, organized by Karnatak science college Dharwad.

4. Attended 12 days refresher course on 'Experimental Approaches to molecular Microbiology and Cell biology, sponsored by Indian academy of sciences, Bangalore (IASC), Indian National science Academy, New Delhi(NISA), The National Academy of sciences, India, Allahabad(NAS) on 20th November to 2nd December 2017.
5. The department along with other science department of the college organized "SCIENCE VISTA"- an intercollegiate Science fest for PU students from 10 different collages on 30-08-2017.
6. Attended 2 days National conference on "Advances in stem cell research and cell based therapy with emphasis on orthopaedic dermatological and dental applications" conducted by K. S Hedge medical Academy on 22 and 23 December 2017.
7. Attended SHAKTHI – 2018 women empowerment program arranged in occasion of 150th Birth Anniversary of sister Niveditha along with 70 students organized by Ramakrishna Math Mangalore on 08-02-2018.
8. Organized science exhibition for high school students and PU students of different school and collages on 11-01-2018 to 15-01-2018 at SVS zoology Lab Bantwal.
9. Organized a visit with 3 BZC Students to Grama Panchayat area for the documentation of PBR on 16-12-2017 and prepared a project proposal.
10. Attended two days International conference on Affordable stratergies for health and Environment organized by the department of biotechnology Engineering of NMAM Institute of Technology, Nitte during 23rd- 24th May, 2019.
11. Successfully completed 2 PBR, i. e Rayee and sarapady and submitted to zilla Panchayat office, Mangalore.
12. Attended national level workshop on skill enhancement and orientation career opportunities in Life sciences, organized by Department of Biotechnology and Microbiology in association with IQAC on 15th July 2023.
13. Developed a new online education platform in the name "BIOEDUEXPERT" 2022 and successfully organized more than 15 online training program and trained most than 500 students. Topic:
 - Job oriented course – QA/ QC for freshers- successfully completed 10 batches – 1 week.
 - Medical writing and scientific writing – 1 week.
 - Down stream processing – 1 week.
14. Attended NEP 2020 orientation and sensitization Programme under Malaviya Mission Teacher Training Programme of university Grants commission organized by MMTTC, Kannur University from 06.03.2025 to 14.03.2025

INVITED TALKS:

1. As a resource person for three days hands on training workshop on "PLANT TISSUE CULTURE" on 20th December to 23rd December 2024, at ANJUMAN ISLAM JANGIRA DEGREE COLLEGE OF SCIENCE , JANJIRA MURUD, DISTRICT RAIGAD, AFFILIATED TO UNIVERISTY OF MUMBAI.

EXTRA AND CO-CURRICULAR ACTIVITIES/ ACHIEVEMENTS:**Interests and Activities:**

Classical Dance- completed vidwat, senior, and junior in Bharatnatyam
Bharatnatyam tutor

PERSONAL DETAILS:

NAME : **DAKSHAYINI**
DATE OF BIRTH : **02-06-1986**
FATHER'S NAME : **DEJAPPA P**
HUSBAND'S NAME : **PRAJWAL R**
PRESENTLY RESIDING : **MANGALORE**
LANGUAGES KNOWN : **ENGLISH, HINDI, KANNADA AND TULU**
DRIVING LICENSE : **LMV& MV (INDIA)**

DECLARATION

I hereby declare that the above information furnished is correct and complete to the best of my Knowledge.

DAKSHAYINI