**Dr. Badarinath D. Kulkarni**

Badari Nivas, Nekar Nagar

Old Hubli, Hubli, KA-580024

+919535085667

[badari88@gmail.com](mailto:badari88@gmail.com)

**Professional Experience**

**Lecturer**

**P G Department of Biotechnology**

**P C Jabin Science College, Hubballi**  Jan 2021 – till date

* Cell Biology and Genetics, Plant Biotechnology, Biochemistry and Biophysics, Animal Biotechnology and Bioprocess Engineering
* Lecturing on post graduate subjects to every semester to classes as large as 25
* Supervising the student research projects and field trips.

**Teaching Asistant**

**Department of Applied Genetics**

**Karnatak University, Dharwad** Aug.-2019 –Dec. 2020

General Microbiology, Molecular Biology, Microbial Genetics, Genetic Engineering

* Lectured on postgraduate subjects every semester to classes as large as 30
* Supervised student projects

**Assistant Professor**

**The Oxford College of Science** Dec. 2010 – Nov. 2014

*Cell Biology, Biostatistics, Microbiology, Environmental Biotechnology, Molecular Biology, Industrial Biotechnology, Genetic Engineering and Plant Tissue Culture*

* Lectured on eight undergraduate and postgraduate subjects every semester to classes as large as 100
* Supervised student projects and field trips
* Organized Conferences/ Workshops/ FDP at National level

**Research Experience**

* **Doctor of Philosophy in Biotechnology** Jan. 2015 – Oct.2020 Karnatak University, Dharwad

“**Neuropharmacological Evaluation of Phytoconstituents from *Aegiceras corniculatum* L. Blanco**.”

Worked on drug testing on animal cells and Swiss albino mice (SAM) to check the protective effects of the pure phytoconstituents against chemically induced neurotoxicity. Also worked on different neurobehavioral studies such as Rotorod, Actophotometer and Elevated plus maze.

* **Visiting Scientist** May 2018- Till date

Cytxon Biosolutions Pvt.Ltd., Hubli

Sep 2012 – Aug. 2013

* Worked as a **team member** in VGST funded project entitled *“Micropropagation and Pharmacological studies of Alstonia scholaris”.*
* Project Fellow, DST PURSE Phase-II programme Oct 2016- July 2019

Karnatak University, Dharwad

**Roles and Responsibilities**

* Deputy Superintendent for Post Graduate Examinations at P.C. Jabin Science College (Autonomous) July- 2021
* Coordinator for Central Valuation for Post Graduate Examinations, at P.C. Jabin Science College (Autonomous) July- 2021
* Member of NAAC Criteria III (Research and Innovations) at P.C. Jabin Science College Hubli
* Member of Organizing Committe, National Conference “Jnanarjana 2K14” at The Oxford College of Science , Bangalore

**Research Papers Published**:**11**

* Shayistanaz Mishrikoti, Geetanjali R. Kamble and Badarinath D Kulkarni, Management of Neurodegenerative Diseases using Medicinal Plants- A review, Research Journal of Biotechnology (In Press)
* Sabiha, A. Shaikh, Satish S. Bhat, Vidyanand K. Revankar, **Badarinath D. Kulkarni**, Karthik Kumara, N. K. Lokanath, Vijay Kumbar, Kishore Bhat, Ray J. Butcher. Fluorophore Tagged Mixed Ligand Copper(II) Complexes: Synthesis, Structural Characterization, Protein Binding, DNA Cleavage and Anticancer Activity, *Chemistry Select*, 2021, 6(45) ,12666-12676
* **Kulkarni, B.D.**, Hoskeri, J.H and Vedamurthy, A B. Neuroprotective and anti-inflammatory activities of *Aegiceras corniculatum* (L.) Blanco. Phcog Res 2019;11:260-6
* **Kulkarni, B.D.**, Hoskeri,J. H. and Vedamurthy, A.B. Evaluation of Analgesic activity of *A. corniculatum* L. Blanco. leaves extracts *J. Pharm. Sci. & Res*. 11(8), 2019, 2862-2865.
* Rakesh R. Chavan, Kallappa M. Hosamani , **Badarinath D. Kulkarni**, Shrinivas D. Joshi. Molecular docking studies and facile synthesis of most potent biologically active N-tert-butyl-4-(4-substituted phenyl)-2- ((substituted-2-oxo-2H-chromen-4-yl)methylthio)-6-oxo-1,6-dihydropyrimidine-5-carboxamide hybrids: An approach for microwave-assisted syntheses and biological evaluation. *Bioorganic Chemistry*2018, 78, 185–194.
* Vikram R Palled, **Badarinath Kulkarni** and Harish Handral. In Vitro-Cytotoxicity Studies Of Methanolic Leaf Extract Of *Memocylon Umbellatum Burm.F*. against breast cancer.  **2017,** *Int. J. Adv. Res. 5(12), 1980-1984*
* Vikram R. Palled, Sudanshu Dubey, **Badarinath Kulkarni** and Harish K. Handral. *In Vitro* Evaluation of Methanolic Extract of *Schefflera venulosa* for Cyto- Compatibility, 2017, *World Journal of Pharmaceutical Research*, 6(15) DOI: 10.20959/wjpr201715-10158.
* **Badarinath Druvarao Kulkarni**, Samim Sultana, Mayuri Bora, Ishita Dutta, Padmaa Milaap Paarakh, Vedamurthy Ankala Basappa. In vitro Cytotoxicity Studies of Zn (Zinc) Nanoparticles Synthesized from *Abutilon indicum L*. against Human Cervical Cancer (HeLa) Cell Lines, *Pharmacognosy Journal*, 8(2) 2016; 127-131.
* **D.K. Badarinath**, A.K. Shettar and A.B. Vedamurthy, Evaluation of phytochemical constituents and cytotoxic activity of *Amorphophallus paeonifolius* (Dennst.) against human breast cancer (MCF-7) cell line, Karnatak University Journal of Science, 50, 2016,48-52.
* Naveen Kumar H.N., **Badarinath D.K**., Joy Hoskeri H., Tarveen Jandoo and Vedamurthy A.B.,

“Bactericidal, fungicidal and anthelmintic activities of *Alstonia scholaris* bark extracts *International Journal of Phytomedicine*,(5)2013, 18-25.

* Joy Hoskeri H., krishna v. Ramesh babu k**., Badarinath D.K**. Prophylactic effects of *Flaveria trinervia* extract against ethanol induced hepatotoxicity using rats.,*International Journal of Pharmacy and Pharmaceutical Science*, 4(1),2012; 127-133.
* Swati Agarwal, Simi Jacob, Nikkita Chettri, Saloni Bisoyi, **D. K. Badarinath**, A. B. Vedamurthy, V. Krishna and H. Joy Hoskeri, Evaluation of in vitro anthelminthic activity of *Leucas aspera* extracts. *Pharmacognosy Journal*, 3(24),2011;77–80.

**Research Projects Guided**

* “Anticancer Potential of Green Synthesized ZnO Nanoparticles from *Abutilon indicum* against HeLa Cell Lines”.
* Evaluation of Neuroprotective Potential of the Bioactive Compounds from *Schefflera venulosa* (wight and Arn.) Harms.
* Evaluation of Cytotoxic Effects of Graphene Oxide Nanoparticles Synthesized from *Callicarpa tomentosa* (L.) Murr.

**Research Funding and Grants**

Seed Money Grant of **Rs. 25000** by Alumni Association, P.C. Jabin Science College, Hubli

February 2022 (Ongoing)

**Education**

**Doctor of Philosophy in Biotechnology**

Karnatak University, India , 2020

**Master of Science – Biotechnology (70.20%)**

Bangalore University, India, 2010

**Bachelor of Science – Biotechnology(83.0%)**

Karnatak University, India, 2008

**KSET- Life Science**

Karnataka State Eligibility Test Center, Mysuru, India, 2014

**GATE- 2011**

IIT Kanpur, 2011

**Technical Skills**

**Immunodiagnostic Methodologies:**

All types of Immunodiffusion, Immunoelectrophoresis and Immunoassay techniques, ELISA, Widal test, ODD, Blood group testing, Rocket Immunoelectrophoresis, Precipitation of Immunoglobulins, Haemetaological analysis ( Blood Glucose, Liver Function test, Glutathione , antioxidant enzymes).

**Animal Cell Culture:**

Basic animal cell culture techniques, Cancer cell line maintenance, drug dilutions, Cryopreservation of cell lines, MTT assay, *In Vitro* Neuroprotective Assay, drug toxicity studies, Isolation of PBMCs.

**Animal Handling:**

Handling of Swiss Albino Mice, Albino Wistar Rats, Drug administration (Oral, i.p. and i.v.) cardiac perfusion, Brain Dissection

**Molecular Biology Techniques:**

Electrophoresis (SDS- PAGE, AGE), PCR, DNA and RNA isolation and extraction,DNA purification Plasmid isolation,Protein isolation and estimation, Gel elution of DNA, Restriction digestion,Ligation,Transformation,Gene Cloning,Restriction mapping,Karyotyping, conjugation and transduction..

**Protein chemistry:**

Protein Isolation and Purification, Column Chromatography, HPLC,SDS-PAGE and Western blotting,

**Microbiology:**

* Isolation of organism and pure culture techniques andmotility tests
* Bacterial growth curve
* Simple, differential (Gram, Acid fast), Endospore, and capsule staining techniques
* VAM isolation
* Indole test, voges proskaeur, citrate utilisation, starch hydrolysis test, gelatine hydrolysis test, catalase and oxidase tests

**Plant Tissue Culture:**

Various methods of micropropagation,synthetic seed preparation and chloroplast isolation

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**Phytochemistry and Pharmacology:**

Isolation of phytochemicals (Hot and Cold Extraction), Qualitative Analysis of Phytochemicals, Purification of Phytochemicals and various pharmacological activities like Antimicrobial Activity, Anthelmintic Activity, Antifungal Activity, Neuroprotective activity, Anticancer Activity, and Analgesic Activity.

**Research Trainings and Internships**

**•** “Analysis Of Soil Microorganisms Around Industries”-

B.Sc. III semester, P.C. Jabin Science College, Hubli

• “Extraction, Partial Purification And Charecterisation Of Α- Amylase *From Eleusine coracana*”.

B.Sc. IV semester, P.C. Jabin Science College, Hubli.

• “Isolation, Cloning and Analysis of Glucan Binding Protein (Gbp) Gene From *Streptococcus mutans*”.

M.Sc. II semester, Biogenics, Hubli

**Achievements**

* Best paper award at International Conference on Biodiversity and Bioactive Natural Products for Human Welfare- 2016 at Govt. Arts College, Karur, Tamilnadu.10th – 12th Feb. 2016.
* Qualified Karnataka State Lectureship Eligibility Test - 2014**(K-SLET)**
* Qualified**GATE 2011**
* Organized various National and International conferences
* Won numerous quiz competitions
* Active member of Biotechnologist’s Society at The Oxford College of Science, Bangalore
* Editor and Chief Secretary for The Oxford College of Science’s yearly Biovistas magazine
* Named Best Student in the Class for 2008-09
* Attended “Project Genesis” a career development programme in general aptitude and communication skills.

**Professional Development**

***Workshops***

* Lecture workshop on Biotechnological Aspects of Environmenal Degradation and Protection at The Oxford College of Science on 13th -14th October 2011.
* Workshop on “Animal Cell Culture Techniques” Conducted by Raghavendra Biotechnologies Pvt. Ltd.at The Oxford College of Science, Bangalore.
* Workshop on “Automation in Biotechnology “by Probiosys held in The Oxford College of Science, Bangalore.
* Workshop on ‘Benchtop NMR Spectrometer’ on 10th November,2011 at The Oxford College of Science, Bangalore.
* Workshop on “Pesticide Residue Analysis Using HPLC” on 13-14th March 2013 at PESIT, Bangalore
* Faculty Development Programme on “Recent Advances in Immuno Molucular Diagnostics” funded by VGST at The Oxford College of Science January 2013.
* Workshop on HPLC,GC,PCR and Spectrophotometry at Azyme Biosciences Pvt. Ltd., Bangalore August 2014.
* Lecture workshop on Research Proposal Writing at The Oxford College of Science, Bangalore on 31st October 2014.
* Faculty Development Program workshop on Advances in In-Vitro Cell Culture and Functional Applications at The Oxford College of Science from 6th -10th July 2015.
* Annual BSBE winter workshop on “Neural Systems: From Circuits to Behavior” at IIT, Kanpur from December 17-18 2016.
* Seven days workshop on “Molecular Modeling Software” organized by DST-PURSE Phase-II Program, Karnatak University Dharwad from 08/08/2017 to 14/08/2017.
* Science Academies Lecture workshop on Advances in Mycology, Microbiology and Biotechnology at Karnatak University, Dharwad from 30th – 31st October 2019.

***Seminars and Symposiums***

* “Confluence” at Indian Academy Degree College, Bangalore 3-4 March 2009
* “BioZenith,” Reva Institute of Science, Bangalore,19-20 March2010
* “Biosientech: Translational Research- Benefits to Mankind” at AMC College, Bangalore,

6 March 2009.

* Renewable Energy Day-2012, at M.S. Ramaiah College of Arts, Science and Commerce, 21st and 22nd August- 2012
* National Seminar on Environmental Biotechnology and Sustainable Energy at Dept. Of Biotechnology and Microbiology, Karnatak University, Dharwad on 10th August 2015.
* National seminar on “Frontier Research in Diversity and Taxonomy of Medicinal Plants” at Kuvempu University Shimoga from 4-5thNovember 2016.
* KSTA sponcered National Seminar on “Recent Innovations in Microbial Biotechnology” at Karnatak University, Dharwad from 28th-29th November 2018.

***Conferences***

* National conference on Molecular Innovations in Food Processing and Food Safety Management at The Oxford College of Science, Bangalore, 5-6 April 2010
* “National Conference on Biotechnology and Society” at Kuvempu University, Shimoga 19-20 April 2012.
* Capacity Building Workshop on “Role of Skill Development in Higher Education” at Karnatak University in association with Karnataka State Higher Education Council, Bengalore and RUSA, MHRD on 24/09/2018.

***Papers/Posters Presented at conferences***

* 7th Annual KSTA National Conference on Science, Technology and Productization- A Means for Growth at The Oxford College of Science, Bangalore from 5th-6th February 2015.
* UGC Sponsored National Conference on Recent Trends and Advances in Life sciences at P.C. Jabin Science College, Hubli from 6th- 7th March 2015.
* DST funded National Conference on New Challenges of Chemistry in Biomedical Research at K.L. University, Guntur from 8th -9th January 2016.
* International conference on Biodiversity and Bioactive natural Products for Human Welfare-2016 at Govt. Arts College, Karur Tamil Nadu from 10th -12th February 2016
* 9th Annual Conference on Science, Technology and Innovations in the 21st Century at Christ University, Bangalore from 20th-21st December 2016.
* International Conference on Advances in Disease Management for Human Welfare at Gulgarga University, Kalaburagi from 21st-23rd November 2017.
* “Innopharm-2” 2nd International conference on Bridging Innovations in Pharmaceutical, Medical and Biosciences at M.P. Council of Science and Technology, Bhopal from 11th -12th February 2017.
* International Conference on “Direct Digital Manufacturing and Polymers” jointly organized by Dept of Chemistry Karnatak University Dharwad and Polytechnique Institute of Leiria, Portugal from 20th-23rd February 2019.
* National Seminar on “ New Trends in Biotechnology” & 14th Conference of Society of Cytologists and Geneticists at Bapuji Institute of Technology, Davangere from 6th to 8th March 2019.

**Referees**

1. Dr. A.B. Vedamurthy

Professor

Department of Biotechnology& Microbiology

Karnatak University,

Dharwad

E-mail: [vedamurthy15@gmail.com](mailto:vedamurthy15@gmail.com)

Mob: 9341314101

1. Dr. Joy H. Hoskeri

Assistant Professor,

Department of Bioinformatics and Biotechnology

Akkamahadevi Women’s University

Vijayapura

E- Mail:[joybioinfo@gmail.com](mailto:joybioinfo@gmail.com)

Mob: 7795122960

**Declaration:**

I hereby declare that the information given by me is true to the best of my Knowledge.

(Dr. Badarinath D. Kulkarni)