

Dr.BABU R L
Assistant Professor

Dept.of Bioinformatics and Biotechnology, Karnataka State Women's University
Vijayapur-586109, Karnataka, India, babu@kswu.ac.in, baburl.rl@gmail.com
+91-8352-229121, 229125

PROFESSIONAL SUMMARY

Experienced and resourceful in the field of teaching and research, motivated towards the innovative thinking and having thrust to establish as a good academician and scientist. I am highly interested to work on the common health related problems and strive to bring the technology from lab level to public level. Worked couple of year in industry, followed by actively involved teaching and research. Have excellent teaching skills, from several years, engaged in teaching and research in biomedical science and bioinformatics. Actively involved in curriculum development and mentoring students. Highly interested in motivating the budding entrepreneurs. Demonstrated proficiency in management of multiple cross functional projects in a collaborative environment. Fluent communication skills in English, Hindi and Kannada. A resourceful and proactive leader with abilities to make experience guided balanced decisions, high sense of responsibility, work ethics, and integrity seeking out a challenging opportunity in in teaching, academic and research.

SKILLS

Molecular Biology: Gene cloning, heterologous expression system, protein expression studies, DNA, RNA based techniques RT PCR, qRT PCR, western blotting, chromatography, transfection, siRNA, Primer designing, ELISA.

Cell Culture: Culturing and maintenance of monolayer culture, Si RNA transfection, Live dead assay, ROS assay, MTT-assay, Hypoxia induction.

Material and Nano science: Nanoparticle synthesis, FTIR, SEM, TEM, EDX, Chronoamperometry

Immunology: western blotting, ELISA, Dot blotting, MALDI-TOF, labelling, Enzymatic and reporter assays, Development SPR, SDS-PAGE and western blotting, electrophoresis, and purification of monoclonal, polyclonal and Single electroporation.

Bioinformatics: Familiar with NGS data analysis, docking tool, Tools of NCBI, EMBL. DNASTAR, Bioedit, harvesting, virus SnapGene, CLC Workbench 7.0.4, Lasergene, pDRAW, attenuation, anti-viral screening, Snapgene, MEGA 6.06, EXCEL, GraphPad Prism.

WORK HISTORY

Post-Doctoral Fellow

On lien from September, 2016 to May 2017 as Post-Doctoral researcher at Molecular Toxicology Lab, Centre for Biotechnology and Biomedical Science, Norfolk State University, Virginia. USA

- ❖ Understanding the mechanistic role of AP-1 factors in hypoxia model system.
- ❖ Synthesis of Titanium nitride nano particles and biocompatibility studies.

Assistant Professor

In August, 2012 appointed as Assistant Professor on permanent basis in Dept. of Bioinformatics and Biotechnology, Karnataka State Women's University, Vijayapur and working till today.

Ph.D.

March 2008 to August 2012- Pursued Ph.D. at Dept. of Biotechnology and Microbiology, JB campus, Bangalore University.

Junior Scientist

Jan 2007- Feb, 2008- Worked as junior scientist at Avesthagen Pvt. Ltd worked transgenic creation for enhancement of oil content in Jatropha and sunflower

Project Assistant

2006-2007- worked as project assistant at department of Microbiology and Biotechnology, Bangalore University "on raising polyclonal antibodies from chickens"

Summer Trainee

2005-2006 – (6 months) worked as summer trainee at Dept. of Biochemistry, Indian Institute of Science, and Bangalore, worked on molecular engineering of panax ginseng plant for enhanced production of alkaloids.

EDUCATION

Awarded Ph.D in Biotechnology, from Bangalore University, Karnataka, India

Title of thesis: **Regulation and Expression Pattern of AP-1 Factors in Breast Cancer Cells: Role of Estrodiol-17 β , Protein kinase C and Protein Kinase A**

20011: PG Diploma in Bioinformatics (Part time)

2008-2012- Ph.D in Biotechnology

2006: M.Sc in Biotechnology, from JB Campus, Bangalore University in First Class

2004: B.Sc. in Biotechnology, with botany and chemistry optional from Vidya Vahini First Grade College, Tumkur

SELECTED PEER REVIEWED INTERNATIONAL PUBLICATION

1. Differential expression of AP-1 transcription factors in human prostate LNCaP and PC-3 cells: role of Fra-1 in transition to CRPC status. *Mol Cell Biochem*, 06 April 2017, Pages 1-14, ISSN: 1573-4919
K. Kavya, M. Naveen Kumar, Rajeshwari H. Patil, Shubha M. Hegde, K. M. Kiran Kumar, Rashmi Nagesh, **R. L. Babu**, Govindarajan T. Ramesh, S. Chidananda Sharma
2. Aqueous areca nut extract induces oxidative stress in human lung epithelial A549 cells: Probable role of p21 in inducing cell death, *Gene Reports*, Volume 6, March 2017, Pages 103-111, ISSN 2452-0144
Rashmi Nagesh, K. M Kiran Kumar, M Naveen Kumar, Rajeshwari H. Patil, K Kavya, **R. L Babu**, Govindarajan T. Ramesh, S. Chidananda Sharma
3. Cadmium induces oxidative stress and apoptosis in lung epithelial cells, *Toxicology mechanisms and methods*, Volume 26, November 2016, Pages 658-666, ISSN 1537-6516
KM Kiran Kumar, M Naveen Kumar, Rajeshwari H Patil, Rashmi Nagesh, Shubha M Hegde, K Kavya, **RL Babu**, Govindarajan T Ramesh, S Chidananda Sharma
4. Biosorption of hexavalent chromium from aqueous solution using chemically modified *Spirulina platensis* algal biomass: an ecofriendly approach, *Desalination and Water Treatment*, Volume 57, April 2016, Pages 8504-8513, ISSN 1944-3994.
Shubha M Hegde, **RL Babu**, E Vijayalakshmi, Rajeshwari H Patil, M Naveen Kumar, KM Kiran Kumar, Rashmi Nagesh, K Kavya, S Chidananda Sharma
5. Interplay of nuclear receptors (ER, PR, and GR) and their steroid hormones in MCF-7 cells, *Mol Cell Biochem*, Volume 422, November, 2016, Pages 109-120, ISSN 1573-4919
Shubha M Hegde, M Naveen Kumar, K Kavya, KM Kiran Kumar, Rashmi Nagesh, Rajeshwari H Patil, **RL Babu**, Govindarajan T Ramesh, S Chidananda Sharma
6. Anti-inflammatory effect of apigenin on LPS-induced pro-inflammatory mediators and AP-1 factors in human lung epithelial cells, *Inflammation*, Volume 39, February, 2016, Pages 138-149, ISSN 1573-2576
Rajeshwari H Patil, **RL Babu**, M Naveen Kumar, KM Kiran Kumar, Shubha M Hegde, Rashmi Nagesh, Govindarajan T Ramesh, S Chidananda Sharma
7. Apigenin inhibits PMA-induced expression of pro-inflammatory cytokines and AP-1 factors in A549 cells, *Mol Cell Biochem*, Volume 403, May, 2015, Pages 95-106, ISSN 1573-4919
Rajeshwari H Patil, **RL Babu**, M Naveen Kumar, KM Kiran Kumar, Shubha M Hegde, Govindarajan T Ramesh, S Chidananda Sharma
8. Anti-inflammatory activity of *Vitex negundo*, *Boswellia serrata* and *Aegle marmelos* leaf extracts in LPS treated A549 cells, *International Journal of Phytopharmacy*, Volume 5, March 2015, Pages 12-20.
Rajeshwari H Patil, Naveen Kumar M, **Babu R L**, S. Chidananda Sharma
9. Biosorption of chromium (VI) and lead (II): Role of *Spirulina platensis* in the treatment of industrial effluent, *Bioremediation Journal*, Volume 17, Feb 2013, Pages 231-239 ISSN: 1088-9868
RL Babu, E Vijayalakshmi, M Naveen Kumar, Rajeshwari H Patil, KS Devaraju, S Chidananda Sharma

10. Effect of estrogen and tamoxifen on the expression pattern of AP-1 factors in MCF-7 cells: role of c-Jun, c-Fos, and Fra-1 in cell cycle regulation, Mol Cell Biochem, Volume 380, August, 2013, Pages 143-151, ISSN 1573-4919
RL Babu, M Naveen Kumar, Rajeshwari H Patil, KS Devaraju, Govindarajan T Ramesh, S Chidananda Sharma
11. Bioimaging of peroxynitrite in MCF-7 cells by a new fluorescent probe rhodamine B phenyl hydrazide, Journal of fluorescence, Volume 23, July 2013, Pages 705-712 ISSN: 1573-4994
Gopi Ambikapathi, Suresh Kumar Kempahanumakkagari, **Babu Ramappa Lamani**, Devaraju Kuramkote Shivanna, Harish Bodagur Maregowda, Anushree Gupta, Pandurangappa Malingappa.
12. In silico binding affinity study of calcineurin inhibitors to calcineurin and its close associates, NISCAIR-CSIR, April 2013, Pages 213-217 ISSN: 0975-0967.
BM Harish, KS Devaraju, A Gopi, R Saraswathi, **RL Babu**, S Chidananda Sharma

FEDERAL GRANTS/PROJECTS HANDELED

Co-principle investigator: Project Title: Identification and Validation of Ethnic Plants Bioactive Targets Involved in Immune Modulation: by Insilico and Invitro Studies- ₹ 2 million, Duration: 2016-17 to 2017 -2018 (2 Year)
Funded by: Dept. of Science and Technology, Govt. of Karnataka. India

CERTIFICATIONS

Proficiency course in NMR spectroscopy and its application to Chemical and biological systems: from Jan- May 2011 at Centre for continuing education at **Indian institute of science** Bangalore.

Training and certification: Technology led entrepreneurship programme organized by Human Resource Development Group, CSIR, New Delhi conducted by the faculty of **Indian institute of Management Bangalore** from July 4-18, 2011 at **Indian institute of chemical technology**.

Teaching orientation course: organized by UGC-academic staff college, Mysore on Dec 30th to Jan-25th, 2014

Refresher Course in Life Sciences: Organized by Hyderabad Central University, Hyderabad from November 13 to December 3, 2015

AWARDS AND HONOURS RECIEVED

- ❖ Prof. D.V Dyanasagar Young Scientist Award from national society of cytologist and geneticists on 25.01.2012 at Bangalore. India
- ❖ Qualified National eligibility test for lectureship-2010

- ❖ Qualified junior research fellowship organized by CSIR -UGC- 2010
- ❖ Awarded Best research paper at national conference organized MLA college ,Bangalore

EDITORIAL BOARD MEMBER

Editorial board member: International Journal of Fundamental and Applied Sciences, Belgium

Editorial board member: International Journal of Scientific Research and Nanotechnology, India

Editorial board member: Journal of Biochemical, Biopharmaceutical and Biomedical science, Malaysia.

UNIVERSITY ADMINISTRATIVE POSITIONS

Coordinator: Peoples Biodiversity register for 2014-15 of vijayapur district.

: Dept. of Botany, KSWU Vijayapur

: Dept. of Zoology, KSWU Vijayapur

WORKSHOP/CONFERENCE/SYMPOSIUM ORGANIZED

- ❖ Coordinator for National workshop on application of Bioinformatics in Medical science, organized by Dept. of Bioinformatics and Biotechnology, KSWU, Vijayapur, from 8-9th January,2013
- ❖ Joint organizing secretary for National workshop in genomics and proteomics organized by Dept. of Bioinformatics and Biotechnology, KSWU, Vijayapur, from 25-26th april,2014
- ❖ Organizing secretary for special lecture series in botany from May 29-31,2014

WORKSHOP/CONFERENCE/SYMPOSIUM PARTICIPATED

Over 20 scientific conference and over 10 workshops were participated

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