

**Babu R L**  
**Assistant Professor in Bioinformatics**  
**Coordinator Dept.of Botany**  
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### Education:

Course	Content	University	Place	Year	Grade
<b>Ph.D</b>	Cancer Biology	<b>Bangalore university</b>	Bangalore	Till date	
<b>M.Phil</b>	Biotechnology	<b>Periyar University</b>	Salem	2009	First
<b>MSc.</b> (BIOTECHNOLOGY)	Biotechnology	<b>BANGALORE University</b>	Bangalore	2006.	First
<b>B Sc.</b>	Biotechnology, Botany, Chemistry.	<b>V.V.F.G.COLLEGE TUMKUR.</b>	Bangalore	2004	First
<b>PG Diploma</b>	Intellectual property rights	<b>National Law School of India university</b>	Ongoing		
<b>PG Diploma</b>	Bioinformatics	<b>BUB</b>			Distinction

### Professional Work Experience:

- Presently Pursuing Ph.D at Dept of Biotechnology, Bangalore University in the area of Cancer biology(Breast cancer) from June-2008 to till date
- Worked as junior scientist in **Avesthagen Pvt Ltd** from January 2007 to June 2008
- 6 months working experience in **Development of polyclonal Abs in chickens and rabbits at Avatar 11 Diagnostics Pvt.ltd, Rajajinagar, Bangalore-560 010**
- 5 months worked as summer trainee in the field of molecular biology at Dept of Biochemistry **Indian institute of science** Bangalore.

- 4 month project experience in peptide isolation, purification and characterization techniques in dept of Biotechnology Bangalore University, Bangalore.

### Teaching experience:

- Two year teaching experience at Padmashree Group College, Bangalore at PG level.

### Projects:

1. **Title:** Enhancement of Ro – Oleanane type ginsenoside in Panax Ginseng C.A.Mayer and expression of chitinase *B*, 1,3 –glucanase genes in panax ginseng plant.  
**Place:** Dept of Biochemistry IISC, Bangalore.
2. **Title:** Isolation purification and Characterization of peptides from male reproductive accessory glands of *Helicoverpa armigera* which regulate the physiology and behavior of female moth.  
**Place:** Dept of Biotechnology Bangalore University, Bangalore under the guidance of Prof.Geetha Bali

### Other Courses:

- Done a course on WINDOWS, MS WORD & EXCEL
- Presently perusing a Diploma course in business management.

### Workshops Attended:

- Attended workshop on “Aids **and Immunology**” organized by Dept. of Microbiology, Kasturba Medical College, and Mangalore.
- Attended CME programme on “**Diagnostic Techniques** in Clinical Virology” organized by Medical Council of India at Jawaharlal Nehru Medical College, Belgaum.
- Participated in the workshop “**GENE CLONING**” organized by Indian science congress.
- Participated 3 days Workshop on **Microbial technology** organized by society of Microbiology and biotechnology Bangalore University.

- Participated in the two days lecture workshop on **Biotechnology and health care** Sponsored by Dept of biotechnology, organized by dept of Microbiology and Biotechnology
- Participated in the 3 days lecture workshop On **advances in biological science** Jointly organized by poornaprajna institute of scientific research and **Indian institute of science**
- Participated in 3 days lecture workshop on **Recent molecular biological trends in infectious diseases and cancer** jointly organized by National Institute of Mental Health and Neuro Sciences (*NIMHANS*) and St.Josephs college, Bangalore
- Participated one day **workshop Access to information for teaching and Research and R3 Access** user meet organized by dept of Library and science, Bangalore university
- Participated in the two day workshop on Biostatistics with computer application organized by dept of statistics, Bangalore university

### **Ph.D Thesis**

#### ***Regulation and Expression Pattern of AP-1 Factors in Breast Cancer Cells: Role of Estrodiol-17 $\beta$ , Protein kinase C and Protein Kinase A***

### **National Exams Qualified**

- Qualified **National Eligibility Test (NET)** for lectureship in Biological science jointly organized by CSIR-UGC
- Qualified Junior research fellowship organized by CSIR (**CSIR-UGC- JRF**)
- Qualified **GATE** with 95 percentile

### **Training undergone**

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

### **Diploma and Proficiency course:**

- “Intellectual property rights” from **National law school of India University**, Bangalore
- **Diploma in Bioinformatics**
- Successfully undergone 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.

### **Awards:**

- Prof. D.V Dyanasagar **Young Scientist Award** from national society of cytologist and geneticists on 25.01.2012 at Bangalore. India
- Awarded best research paper award at National conference on Conservation and sustainable development of ecosystem organized by Shayhadri science college, Shimoga from 26<sup>th</sup>-27<sup>th</sup> March 2010

### **Administrative experience:**

- Worked as a **secretary** for the Society of Microbiology and Biotechnology research forum.
- Worked as **Vice president** for Bangalore university student union.
- Member for Indian science congress, India
- Member for Society of Cytologist and Geneticists, India

### **Conference attended:**

#### **National**

- Presented the poster on Effect of Estardiole and Tamoxifen on the expression pattern of AP-1 factors at National conference on recent trends in proteomics and genomics from May 26-27<sup>th</sup>,2011, jointly organized by Bangalore university and Indian academy college Bangalore.

**Babu RL**, Vijayalakshmi E, Naveen Kumar M,R H Patil, Chidananda Sharma

- Cloning of CDK-4 gene and effect of antisense Oligonucleotides proliferation of A-549 cells at National conference on recent trends in proteomics and genomics May 26-27<sup>th</sup>, 2011, jointly organized by Bangalore University and Indian academy college Bangalore.

Vijayalakshmi E, **Babu RL**, Naveen Kumar M, R H Patil, Chidananda Sharma

- Presented the research paper orally on “Bioremediation of heavy metals by *Spirulina platensis*” at National conference on Conservation and sustainable development of ecosystem organized by Shayhadri science college, Shimoga from 26<sup>th</sup>-27<sup>th</sup> March 2010

**Babu RL**, Vijayalakshmi E, Chidananda Sharma

- Presented a paper on Effect of estrogen and tamoxifen on the expression pattern of AP-1 factors in MCF-7 cells at 11<sup>th</sup> all India conference on cytology and genetics, organized by Bangalore university on 23-25.2012

### **International**

- Presented the research paper orally on “Effect of Estardiole and Tamoxifen on proliferation of MCF-7 cells” at International conference on “**Recent trends in therapeutic advancement in free radical science and cancer**” jointly organized by Bharathi women’s college Chennai and Angiogenesis laboratory, University of Connecticut, USA from Jan 9-11,2010 at Chennai

**Babu RL**, Vijayalakshmi E, Chidananda Sharma

- Paper selected for the poster presentation on Effect of Estrogen and Tamoxifen on the expression pattern of AP-1 factors in MCF-7 cells at The 7th Princess Chulabhorn International Science Congress (PC VII) on **cancer: from basic research to cure** to be held on October,2012 at **Bangkok**

- Paper presented at International Conference of the Asian Clinical Oncology Society, June 13-15, 2012 COEX, **Seoul, Korea**, on „**Effect of Estrogen and Tamoxifen on the expression pattern of AP-1 factors in MCF-7 cells**“

**Babu R L**, Vijayalaksmi.E, Rajeswari H Patil, Naveen Kumar. M and S. Chidananda Sharma

## Publications:

### Published:

1. 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.](#) 2013 Aug;380(1-2):143-51. doi: 10.1007/s11010-013-1667-x. Epub 2013 Apr 28.  
**Babu RL**, Naveen Kumar M, Patil RH, Devaraju KS, Ramesh GT, Sharma SC.
2. Bioimaging of peroxyxynitrite in mcf-7 cells by a new fluorescent probe rhodamine B phenyl hydrazide.  
[Fluoresc.](#) 2013 Jul;23(4):705-12. doi: 10.1007/s10895-013-1205-y. Epub 2013 Mar 12.  
Ambikapathi G, Kempahanumakkagari SK, **Babu R L**, Kuramkote Shivanna D, Bodagur Maregowda H, Gupta A, Malingappa P.
3. *In silico* binding affinity study of calcineurin inhibitors to calcineurin and its close associates  
Indian Journal of Biotechnology, Vol 12, April 2013, pp 213-217  
B M Harish, K S Devaraju, A Gopi, R Saraswathi, Anushree, R L Babu and S Chidananda Sharma
4. Biosorption of Chromium (VI) and Lead (Pb II): Role of Spirulina platensis in the treatment of industrial effluent"  
Jr.**Bioremediation** , In press  
**Babu R L**, E.Vijayalaksmi, Rajeshwari Patil, Naveen Kumar. M and S. Chidananda Sharma

## Papers communicated

1. **Forskolin inhibits PMA induced expression of mRNAs of AP-1 factors (c-Jun/c-Fos and Fra1) in MCF-7 cells: Antisense oligos of c-Jun and c-Fos inhibits the cell proliferation**  
Babu R L, Naveen Kumar M, Rajeshwari H Patil, Kiran Kumar K M , Govindarajan T Ramesh and S. Chidananda Sharma

**Communicated to Journal of Cellular Biochemistry**

2. Protective effects of Rhinacanthus nasutus in liver and kidney histopathology of STZ induced diabetic rats"  
P.Visweswara Rao, P.Sujana, R.L.Babu, K.Madhavi, N.Manojkumar, B.Raghavendra Rao and M.Dhananjaya Naidu

Communicated to Experimental and Toxicologic pathology

3. Flavanone as a potential promising scaffold for the synthesis of novel 1, 2-thiaphospholene-2-sulfides: Molecular Docking and anti-proliferative studies on Human lung carcinoma type II epithelial cells  
B. Satheesh Krishna, K. Uma Maheswara Rao, K. Suresh Kumar, S. Siva Prasad, S. H. Jaya Prakash, **R.L. Babu**, S. Chidananda Sharma,  
Under Review *European Journal of Medicinal Chemistry - Eur J Med Chem*,
4. Characterization and bioactivity of bikaverin isolated from  
*F.oxysporiumf.sp.lycopersici*  
Nirmaladevi, Ramesha A, **Babu R L**, Chidananda Sharma and Srinivas .C  
Communicated to *Journal of Basic Microbiology*,

**Personal Details:**

Age & Date of Birth : 20.06.1983  
Gender : Male.  
Marital Status : Married  
Nationality : Indian.  
Languages Known : English, Kannada, Hindi, and Telugu.  
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**S/o Ramappa .B.R**  
**Narenoor L.T 1, Narenoor**  
**Badami (Tq) Bagalakot (DT)**  
**Pin: 587206**

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