**FACULTY Curriculum Vitae** ---

DR. PRABHA M. 

**Associate Professor**

Dept of Biotechnology, Ramaiah Institute of Technology (old name—MSRIT)

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##### Key Qualities

* Seventeen years experience in the field of research and a passion for driving new results to contribute to the field of Medical Neuroscience, Biochemistry and Biotechnology.
* Nine years of Teaching experience in various subjects of Biotechnology mainly Medical Biotechnology, Genetic Engineering/rDNA Technology, Protein engineering, Human physiology, Biochemistry and Enzyme Technology.
* Highly motivated team player with a mature and positive attitude and an inclination towards learning new concepts and methodologies.
* Accumulation of knowledge & skills being associated with NIMHANS, Central College, Bangalore University, NCBS, IISc, and Ramaiah Institute of Technology-----Bangalore.

**Research Areas**

**Cellular /Molecular Neurochemistry and Medical Neuroscience**

Protein Modulation and role of Hydrolytic enzymes/modulators in ---------

1. Regulation of Astrocytes/ Neuronal function

2. Brain tumors and

3. Neurodegenerative disorders.—Alzheimer’s disease

**Future**—Protein engineering, Neural stem cells and Molecular medicine

**Faculty Experience:**

* Working as Associate Professor, Dept of Biotechnology, RIT, Bangalore.(1st August 2017 to present)—\*
* Worked as Asst Professor, Dept of Biotechnology, MSRIT, Bangalore.( 21st oct 2010 to 31st July)
* Worked as Faculty for Int MSc in Biological Sciences in Dept of Biological sciences, Bangalore University, Bangalore. (1st Sept to 20th Oct 2010).-- thought Biochemistry and Immunology.
* Worked as Chemistry Lecturer at Sarvodaya College 1997- 1998, Tumkur.
* Worked as Lecturer in Biochemistry at Vidya Vahini College, 1996 – 1997, Tumkur.

##### Post Doctoral Projects

1. Post Doctoral Fellow**-CSIR-RA Fellow** (Jan-2007 to July -2008): IISc, Bangalore, India.

* Worked on “Cancer Stem Cells Tumorogenesis and Chemoresistence in Malignant Glioma Cell Lines”.— stem cells Isolation and characterized the stem cells, shown tumor on mice with injected cell lines and cancer stem cells and antitumor activation of drugs.

1. Post Doctoral Fellow (Jan-2006 to Aug-2006): NCBS, Bangalore, India. ----

* Worked on project “Rescue of Larval Lethality of *itpr* Mutants from UAS-Itpr & DDc Sub Domains by Staging & Expression. ------Successfully shown four flies of HL strain which were rescued from larval lethality.

##### Academic Education

##### Doctor of Philosophy (Ph.D.) in Biochemistry (September-2005), Topic--"A Comparative Biochemical study on Hydrolytic enzymes in normal postmortem Human brain, Brain tumors and in their derived cell lines" Registered at Bangalore University, Research Work in the Departments of Neurochemistry and Neurovirology, National Institute of Mental Health and Neurosciences (NIMHANS), Bangalore.

* Master of Science in Biochemistry (April-1996), Central College, Bangalore University, Bangalore. ---- Project Work: "Partial Purification of Amylase from Ragi (Eleusine Coracana)"
* Bachelor of Science (April-1993) majored in Chemistry, Botany and Zoology, Sree Siddaganga College for Women, Tumkur, Bangalore University.

**Other courses done—**

* Recombinant DNA technology advanced practical course.-2009 —Best biotech 2009 (A++ grade)
* Advanced course on “Membrane Biophysics” 16th January 2006 to July -2006 at NCBS (B grade).
* Course work--Animal Ethical clearance completed the written and practical examination with distinction at –NIMHANS 2001.

**\*Subjects thought for:**

**BE Biotechnology**

Theory---Medical Biotechnology—3 times, Genetic Engineering (theory—4 times and lab—1 time), Human Physiology—5 times, Biochemistry—1 time, Genomics and Proteomics—2 times, Cell biology and Genetics—1 time, Forensic science—1 time, Enzyme Technology—1 time

Lab---Molecular Biology Lab—1 time, Genetic Engineering—1 time

**MTech in Biotechnology**

Theory--Medical Biotechnology—6 times, recombinant DNA technology—4 times, Protein Engineering and Industrial Applications & Applied Animal Biotechnology—1 time.

## Lab--Practical II—downstream processing and recombinant DNA technology—5 times and Practical—1 time and MTechTechnical Seminar—2 times

**Professional Activities:**

**Invited Editorial/Reviewer member-**

1.International journal of Clinical Biochemistry and Research—Innovative Publications-- invited

2.Indian journal of Neurosciences—Innovative Publications

3. International Journal of Advanced Research in Management, Engineering and Technology (IJARMET eISSN:2456-2998).--invited

4.Member of International Editorial Advisory Board for International Journal of Latest Technology in Engineering, Management & Applied Science  (IJLTEMAS) ISSN 2278-2540. –invited

5. Editorial member of American journal of Clinical and Experimental Medicine –invited

6. Editorial Member for Journal of Clinical Science & Translational Medicine-Invited

7. Editorial member for Journal of Biochemical Engineering & Bioprocess Technology

* **Lifetime member**

1. Society of Neurochemistry INDIA (SNCI)-- - ID--LM-I-522

2. Indian Academy of Neurosciences (IAN)—LM-130

3. International society for Research and Development

4. Biochemical Technology Society (BTS)

* **Current member--**

### International society for Neurochemistry ISN/[Asian Pacific Society for Neurochemistry](https://www.google.co.in/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwjI47CUu7jTAhWMQ48KHYpBAiEQFggtMAA&url=http%3A%2F%2Fwww.apsneurochem.org%2F&usg=AFQjCNH09jYoMzVpZ3XPhszl3CG8pEuk9w&sig2=XBquWVtp4sv2_qi1n3heBQ) APSN

* **Advisory Commitee member**--International Conference on Recent Advancement and Future Scopes in Science, Engineering and Technology-[RA-FSSET-2018] at Akshaya Institute of Technology, Tumkur on May 12th-13th, 2018

Research Grants --DBT Biocare Women scientist Grant 2016--proposal on the website.---

Controlled modulation of the lysosomal system and astrocytes by hydrolytic enzymes with modulators targeting to regulation of neuronal function in Alzheimer’s disease cell line and rat model.

## Publications (Abstracts Published & Presentations)

1. **Prabha M,** Ravi V, N.Ramachandra Swamy (2013) Activity of hydrolytic enzymes in various regions of normal human brain tissue. Ind J Clin Biochem 28(3):283-291 (springer publications) PMC free article

 2. **Prabha M**, N Ramachandra Swamy, V Ravi. Specific activity of glycosidases in brain tumors and their expression in primary explants culture. J Biochem Tech (2012) Published online: (13 June 2013). J Biochem Tech 5(1): (2013), 654-665.

3. **Prabha M**, TS Anusha. Esterase’s properties in commonly used Indian spices for Alzheimer’s disease model. J Biochem Tech 6(1): (2015), 875-882

4. Sushma S. Rao, Suneetha P, Nagaveni MB, **Prabha M\* (CA).** [Partial purification and characterization of carboxyl esterase in aged and lithium treated rat brain](http://www.jbiochemtech.com/index.php/jbt/article/view/JBT616). J Biochem Tech (2015) 6(1): 883-888

5. **Prabha M**, Bhavana G, Sunitha P,, Channa rayappa, Lokesh KN. The Role of Carboxyl esterase and Acid phosphatase in Aged and Lithium Treated Rats in Regulation of Neuronal Function. J Biochem Tech (2015) 6(1): 889-893.

6.**Prabha M,** Sushma KN, Suneetha P, RR Siva Kiran. Higher specific activities of alkaline phosphatase and β-galactosidase for the cellular membrane integrity in young and old aged lithium treated rats. “Indian Journal of Neurosciences”. December Issue, 2016, Vol. 2 Issue. 4 97-104.

7. Manjula N, Suneetha P, Lokesh KN, Prabha M, Jolitha Adiyara Bosse, Gowri Neelima Makarla and Kushalatha M. Production of lipase from *Azadirachta indica* oil seed cake using solid state fermentation. International Journal of Applied Research 2017; 3(9): 223-230.

8.**Prabha M,** N Ramachandra Swamy, V Ravi. “Significant lower specific activity of Carboxyl esterase similar in benign and malignant brain tumors with derived cell culture indicates reason for the failure of anticancerous drug activation”—presented paper and Oral presentation in conference ICABBS 2017, Satyabama University, Chennai. –Submitted to IJCB springer (under revision process for acceptance)

9. **Prabha M**, Smita Patil, Suneetha P, Lokesh K N, Santh Kumar S. "Lithium Induces Lower Specific activity and Expression of Acetyl Choline Esterase in Old aged Rats Brain and Liver for the Regulation of Cellular signaling"—.Sent to Neurochemical journal (under revision process).

10. **Prabha M**, Suneetha P, Aditi Karanth, Neethu K P andVaishnavi S Ramesh. High protein content and expression for caffeine treated old rat brain and reduced level of Carboxyl esterase activity in Brain and liver of Old and young aged Rats.—(delivered invited oral presentation for international conference on “genetics and molecular research” Crowne plaza Dubai Deira. May 22-24, 2017. Organized by Gavin conferences. USA.)--- sent to Journal Biochemical Engineering & Bioprocess Technology under revision process.