

CURRICULUM VITAE

Dr. Raghunath N

MSc., MPhil., PhD

Research & JRF Exams coordinator

Azyme Biosciences Private limited

1188/20, 3rd floor, 26th main road, opposite

Ragigudda temple arch, 9th Block, Jayanagar, Bangalore-560069.

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Educational Qualifications

Degree	Year	Subjects	Institute /University
❖ PhD	2010-2016	Department of Neurochemistry (Parkinson's Disease)	NIMHANS, Bengaluru (CSIR funded)
❖ MPhil	2007-2009	Biochemistry	Bharathidasan University
❖ MSc.,	2000-2002	Biotechnology	Bangalore University
❖ BSc.,	1996-1999	Chemistry, Botany and Zoology	Bangalore University

Research and Teaching Experience

Institute	Position	Tenure
V V Puram College of Science	Guest faculty (Biochemistry)	Dec-2021 - May 2022
JNCASR, Molecular Virology laboratory	JRF	2006-2008
Oxford college of Science	Lecturer	14.06.2003 - 28.02.2006
Best Biotech Research Labs Bengaluru	Research Assistant	July 2002 - May 2003

Current positions

Maharani Lakshmi Ammanni College for women (PG Dept)	Guest faculty (Immunology & Biochemistry)	10.10.2022 - till date
Padmashree College of Science	In-charge, UGC- CSIR classes	07.05.2022 - till date
Maharani Lakshmi Ammanni College for women	In-charge, UGC-CSIR classes	20.12.2019 - till date
Azyme Biosciences Pvt Ltd	In-charge, UGC- CSIR classes	01.01.2018 - till date

Other research/Research activities

- ❖ **Subject expert: Chegg Company** on the Q&A board (American education Technology Company) in the field of Biology from **22.04.2016 to till date.**
- ❖ Organizing workshops, seminars and awareness sessions for life science competitive examinations for post graduate students.
- ❖ For the first time in NIMHANS established state of the art **Drosophila laboratory** to use them as models to study the effects of various toxins which have implications in Parkinson's disease.
- ❖ Established Animal cell culture facility at Azyme Biosciences for the purpose of training

post graduate students and to carry outsourced studies.

Awards/Achievements

- ❖ Qualified **UGC-CSIR/LS** Dec 2018 conducted by UGC-CSIR. New Delhi. (70th Rank)
- ❖ Qualified **UGC- CSIR/JRF** Dec 2009 conducted by UGC-CSIR. New Delhi. (189th Rank)
- ❖ Qualified **UGC-UGC/JRF** Dec 2009 conducted by UGC-CSIR. New Delhi (272nd Rank)
- ❖ Qualified **GATE** Examination during three times
- ❖ Awarded **ICMR-JRF** - 2005 by ICMR under project category, New Delhi, India
- ❖ Awarded **ICMR-JRF** 2006 by ICMR, New Delhi, India
- ❖ Qualified **KSET-2014** conducted by Government of Karnataka.
- ❖ Qualified **ASRB/NET-2014** conducted by ASRB, New Delhi
- ❖ Hyderabad Central University (2 times)
- ❖ Indian Institute of Science Examination for PhD (2 times)

Expertise in scientific Techniques

- ❖ **Animal cell culture-based techniques** : Routine maintenance of cell lines, Cryopreservation, toxicology studies, treatment of cells with various agents (drugs/toxins), cell viability assay, mitochondrial membrane potential, preparation of extracts for biochemical assays, mitochondrial preparation.
- ❖ **Molecular Biology:** Nucleic acid extraction (RNA, DNA handling and isolation from cultured cells or tissue). PCR: Semi-Quantitative RT-PCR and Real time RT-PCR. Southern, Northern and Western Blotting. Agarose and Polyacrylamide gel electrophoresis (Native and SDS)
- ❖ **Bio-analytical/Bio-chemical Techniques** : Detection and quantification of bio-active molecules from natural source by using RP-HPLC, LC-MS/MS and GC-MS. Enzyme Kinetics, Spectrofluorimetric, Dot blot and UV-visible spectrophotometric assays
- ❖ **Animal Experiments:** Animals used for study (Wistar rats, Swiss albino mice and Rabbit) Toxicology, Histopathology and Hematology studies. Immunohistochemistry Behavior studies: Novel object recognition test, Morris water maze, elevated plus maze, forced swim test, weight-loaded forced swim test
- ❖ **Fly experiments:** Culturing, maintaining and synchronizing *Drosophila melanogaster* Toxicology studies
- ❖ **Computational Biology** : Designing of primers for PCR, Analysis and presentation of scientific data using routine MS-office, MS-excel, Graph pad, Adobe Photoshop, Adobe illustrator softwares, SPSS 15.0 for windows, densitometric analysis using Image J software

List of publications

- ❖ Rajeshwara Babu Mythri, G. Harish, **N. Raghunath** and M.M. Srinivas Bharath. Therapeutic Potential of Polyphenols in Parkinson's Disease, Towards New Therapies for Parkinson's Disease, David I. Finkelstein (Ed.), ISBN: 978-953-307-463-4. 2011.
- ❖ George KS, **Raghunath N**, Bharath MM, Muralidhara. Prophylaxis with *Bacopa monnieri* attenuates Acrylamide induced neurotoxicity and oxidative damage via elevated antioxidant function. Cent Nerv Syst Agents Med Chem. 2012.

- ❖ Mythri RB, **Raghunath NR**, Narwade SC, Pandareesh MDR, Sabitha KR, Aiyaz M, Chand B, Sule M, Ghosh K, Kumar S, Shankarappa B, Soundararajan S, Alladi PA, Purushottam M, Gayathri N8, Deobagkar DD, Laxmi TR, Srinivas Bharath MM. Manganese- and 1-methyl-4-phenylpyridinium-induced neurotoxicity display differences in morphological, electrophysiological and genome-wide alterations: implications for idiopathic Parkinson's disease. J Neurochem. 2017 Nov; 143 (3):334-358. **(2017 Impact factor: 4.609)**

Presentations & Seminars organised

- ❖ Organised “2nd International conference on Public mental Health and Neurosciences” **(ICPMN-2015)**, held on 9th and 10th December 2015, In Bangalore, India
- ❖ Attended Two days’ workshop on “Recent advances in HPLC methodology in Laboratory Medicine and Research” jointly organised by Raja Rajeshwari Medical College and hospital and Association of clinical Biochemists of India (ACBI) held during 28th and 29th January 2015 in Bangalore, India.
- ❖ Organised International Conference on public mental Health and Neurosciences, Sarvasumana Association on 18th and 19th December 2014 at Bangalore, India.
- ❖ Participated in the NextGen genomics and Bioinformatics Technologies (NGBT) conference jointly organised by SciGenom Research Foundation, NIMHANS and Institute of Bioinformatics during November 17th – 19th, 2014.
- ❖ Participated in the “Conference on Applying NGS: Basic Research, Agriculture & Healthcare”, organized by Genotypic Technology, Bangalore, India, on 11th September 2014.
- ❖ Participated in conference on applying NGS: Basic Research, Agriculture and Healthcare organised by Genotypic Technology, Bangalore.
- ❖ Attended international symposium on translational Neuroscience and XXXII annual conference of Indian Academy of Neurosciences - IAN-2014 from November 1st to 3rd, Bangalore.
- ❖ Attended as a tutor in 3rd annual Hands on workshop in Neurochemistry and Electron Microscopy organised by Department of Neurochemistry and Neuropathology, NIMHANS between 14th-19th July, 2014
- ❖ Attended Mito-Symposium organised by department of Neurochemistry and Neuropathology, NIMHANS on 20th July, 2014.
- ❖ Attended 3rd Annual conference of Society for Mitochondrial Research and Medicine (SMRM) held at NIMHANS from 19th-20th December 2013.
- ❖ Attended as a tutor in 2nd annual Hands on workshop in Neurochemistry and Electron Microscopy organised by Department of Neurochemistry and Neuropathology, NIMHANS between 15th-20th July, 2013.
- ❖ Participated and presented poster in 27th annual meeting of Society for Neurochemistry-2013, on Recent Advances in molecular mechanisms in Neurological Disorders organised by All India Institute of Medical Sciences, New Delhi. India.

- ❖ Attended OROBOROS O2K Workshop on High resolution respirometry and O2K Fluorometry-IOC83” 3rd Annual Conference, held at NIMHANS by SMRM, **2013**.
- ❖ Participated in National Workshop on Microbial Biotechnology organised by Department of Microbiology and Biotechnology, Bangalore University from 16th -20th February, 2009 and acquired hands on training on advanced PCR based techniques.
- ❖ Attended 3rd Annual conference of the society for mitochondrial research and Medicine (SMRM-2013) held at NIMHANS, Bangalore, India as a delegate.
- ❖ Attended second Annual Hands - on workshop in Neurochemistry and Electron microscopy organised by Department of Neurochemistry and Neuropathology as an organiser.
- ❖ Indo-Brazil meeting on infectious diseases - 2008, at JNCASR, Bangalore.
- ❖ International AIDS Conference AIDS in India - 2007, organised jointly by Albert Einstein College of Medicine (AECOM) Bronx New York and Jawaharlal Nehru Centre for Advanced Research.
- ❖ Attended DNA special symposium organised by Bangalore University and Society for Applied genetics held during Jan 15th and 16th, 2004.

Invited talks

Following are the organisations/universities who has invited me to deliver talks on Topics such as “Research & Academic prospects in Biology, awareness programme on National level entrance examinations, “Plethora of Bioavenues, Fellowships and Research opportunities for Life Science Students.

- ❖ Mount Carmel post graduate center, Department of Biotechnology, Bengaluru
- ❖ Mount Carmel post graduate center, Department of Biochemistry, Bengaluru
- ❖ KLE Nijalingappa College, Bengaluru.
- ❖ V V Puram College of science on the account of National Science day
- ❖ Kuvempu University, Dept. of Biochemistry, Shankaraghatta, Shivmogga, Karnataka
- ❖ Abdur Rehman Crescent University in Chennai, Tamil nadu
- ❖ Padmashree institute of Science and Management, Bangalore.
- ❖ BMC College for women, Gandhi Bazar, Basavanagudi, Bengaluru
- ❖ Bhagawan Mahaveer Jain College, KGF, Kolar
- ❖ Administrative management college, Banneraghatta, Bengaluru
- ❖ Surana college (Autonomous), Basavanagudi, Bengaluru
- ❖ Vijaya college, Jayanagar, Bengaluru

Training undergone

- ❖ Undergone training on programme on **Care, Breeding and Management of Laboratory Animals** in Central Animal Research Facility (**CARF**) at **NIMHANS**, Bangalore - 560029.
- ❖ Trained on “**Methods of Drosophila Culture, their maintenance and other toxicology related experiments**” under the guidance of Dr. Muralidhara, chief Scientist, Department of Biochemistry and Nutrition, CFTRI, Mysore.

Personal details

- ❖ Date of Birth: 10th April 1977
- ❖ Nationality: Indian
- ❖ Marital status: Married
- ❖ Languages known: Kannada, Telugu, Hindi & English
- ❖ Permanent address: S/o Narayana Reddy, Thokalahally (P and V), Nagaragere (Hobli), Gowribidanur (Taluk), Chikkaballapur District, Karnataka State, Pin-570028, India.

References

❖ Dr. M.M. Srinivas Bharath

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Tel: 91-80-26995167/26995162, Fax: 91-80-26564830
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❖ Dr. Shankar Narayana Rao

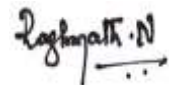
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Declaration

I hereby declare that all the information and statements made above are true, complete and correct to the best of my knowledge and belief.

Place: Bengaluru

Date: 22.07.2022



(DR. RAGHUNATH N)