

# Syed Aasish Roshan S

DBT- Junior Research Fellow, Molecular Gerontology lab, Bharathidasan University

Working on research focusing on adult neurogenesis and neuroplasticity in rat ischemic stroke models.



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📅 14 September, 1992

## EDUCATION

### B.Tech Biotechnology

Anna university of Technology, BIT campus, Trichy

08/2010 – 05/2014

### MSc Neuroscience

Dr.ALM Post Graduate Institute of Basic Medical Sciences, University of Madras, Taramani

08/2016 – 05/2018

### PhD Biochemistry

Bharathidasan University

05/2018 – Present

## PROJECTS WORKED

Isolation and characterization of poultry feather degrading keratinase (09/2013 – 04/2014)

- B.Tech Dissertation project; Under guidance of Dr.B.Anandaraj, Department of Biotechnology, AUT-BIT Campus

Synaptic mitochondrial role in functional restoration by enriched environment after transient global cerebral ischemia(TGCI) in rats. (08/2017 – 05/2018)

- MSc Dissertation Project; Under the guidance of Dr.R.Ramesh Kumar, Department of Anatomy, IBMS Taramani.

Development of fourth generation Bio-fuel from Arundo donax : Literature Review (01/2011 – 02/2011)

- Intradepartment Project

Integrated human genome database for genetic disorder diagnosis: Literature Review

Rehabilitation methods to support Brain Transplantation: Literature Review

## WORKSHOP

IBRO-APRC School on Advanced Techniques to Explore the Functions of Normal and Diseased Brain (04/2019 – 05/2019)

Workshop on Fluorescent Based Assays- FACS Workshop (03/2019)

## ACADEMIC ACHIEVEMENTS

DBT-JRF Biotechnology Entrance Test (BET)-2018 Category -1

GATE-Biotechnology (2018)- 92nd percentile

Tamilnadu State Eligibility Test (TN-SLET)-2018

CSIR-NET- LS- December 2018

Best Presentation- IBRO-APRC School on Advanced Techniques to Explore the Functions of Normal and Diseased Brain

*Title: Search for the addiction engram in Nucleus accumbens*

## WORK EXPERIENCE

### R&D Incharge, Enzyme Amaze Biotech, Erode

09/2015 – 05/2016

*Manufacturers of textile enzymes and auxiliaries*

*Focused on*

- Development of textile application methods for enzymes
- Optimization of alpha amylase for desizing application
- Utilization of enzymes in textile dyeing procedures

### Quality Control Analyst Thai Biotech, Trichy

03/2015 – 08/2015

*Manufacturers of Industrial Enzymes*

*Focused on*

- Quality analysis of industrial enzymes
- Formulation development for industrial enzymes

### Research Intern NTHRYS Biotech, Hyderabad

10/2014 – 03/2015

*Biotech research institute*

*Focused on*

- Bioinformatics- CADA analogues against gp120 - CD4 interaction of HIV

## TECHNICAL SKILLS

Synaptic mitochondria isolation    Rat stereotaxic surgery

Rodent behaviour assessment and training

Protein optimisation    Microbiology techniques

Basic histology    Western blotting

Immunohistochemistry    Protein ligand docking

MCAo- Intraluminal method

## INTERESTS

Adult Neurogenesis

Prion Diseases

Astronomy

Basketball

Olympic weightlifting

DIY projects

PC & Console gaming

Cycling

## PUBLICATIONS

- Kandasamy M, Radhakrishnan RK, Poornimai Abirami GP, **Roshan SA**, Yesudhas A, Balamuthu K, Prahalathan C, Shanmugaapriya S, Moorthy A, Essa MM, Anusuyadevi M. Possible Existence of the Hypothalamic-Pituitary-Hippocampal (HPH) Axis: A Reciprocal Relationship Between Hippocampal Specific Neuroestradiol Synthesis and Neuroblastosis in Ageing Brains with Special Reference to Menopause and Neurocognitive Disorders. *Neurochem Res.* 2019 Aug;44(8) 1781-1795. doi:10.1007/s11064-019-02833-1. PMID: 31254250.
- Kandasamy M, Yesudhas A, Poornimai Abirami GP, Radhakrishnan RK, **Roshan SA**, Johnson E, Ravichandran VR, Biswas A, Shanmugaapriya S, Anusuyadevi M, Aigner L. Genetic reprogramming of somatic cells into neuroblasts through a co-induction of the doublecortin gene along the Yamanaka factors: A promising approach to model neuroregenerative disorders. *Med Hypotheses.* 2019 Jun;127 105-111. doi:10.1016/j.mehy.2019.04.006. PMID: 31088631.

## BOOK CHAPTERS

- The Regulation of Reactive Neuroblastosis, Neuroplasticity and Nutraceuticals for Effective Management of Autism Spectrum Disorder  
GP Poornimai Abirami, Risna Kanjirasseril Radhakrishnan, Esther Johnson, **Syed Aasish Roshan**, Ajisha Yesudhas, Suhadha Parveen, Abir Biswas, Vijaya Roobini Ravichandran, Anusuyadevi Jayachandran\*, and Mahesh Kandasamy\*