

# SHANMATHI RAMASUBRAMANIAN

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## EDUCATION

### University of Georgia, Athens, GA, USA

PhD., Neuroscience

Aug 2021 – present

### Newcastle University, Newcastle Upon Tyne, UK

MRes (Masters by Research) Regenerative Medicine and Stem cells 2020

Areas of Concentration: Cancer Biology, Neurodegenerative disorders, Stem cells

Thesis: Genetic dissection of gene (dys)regulation in development and disease

(Dr. David Young)

### SRM University (now SRMIST), Kattankulathur, TN, India

B.Tech Biotechnology

2016

Areas of Concentration: Medical Biotechnology

Thesis: Organophosphates and Carbamates: A study on the developmental neurotoxicity in Zebrafish embryo (*Danio rerio*) (Dr. S. Barathi)

Paper Presentation: National Conference on Recent Innovations in Biotechnology, Department of Biotechnology, Aarupadai Veedu Institute of Technology, Chennai on 18<sup>th</sup> April 2016

## RESEARCH EXPERIENCE

### BITS PILANI, K.K BIRLA, Goa, India

Research Scholar

2016-2017

Advisor: Dr. Indrani Talukdar

Project Title: Hydroxyapatite nano-vehicle- mediated delivery of siRNA into mouse embryonic stem cells for targeting pluripotency markers as a potential therapeutic approach in regenerative medicine

### SRM University (now SRMIST), Kattankulathur, TN, India

UG Research Assistant

2014-2015

Advisor: Dr. V. Vinoth Kumar

Project Title: Production of Naringinase from a new soil isolate: Isolation, Optimization, and Applications towards de-bittering of juices

## WORK EXPERIENCE

### Virupaksha Life Sciences, Hyderabad, India

Research Assistant

01/18 – 05/19

- Troubleshoot bacterial culture conditions for maximal production of biosimilars (therapeutic peptides)
- Developed economically feasible method for the purification of biosimilars

- Helped in organizing the India's First Summit on THE FUTURE OF PROTEIN: The New Food Revolution, August 2018
- Coordinator for various events conducted by the incubation center

## TEACHING EXPERIENCE

### **BITS PILANI, K.K BIRLA, Goa, India**

Teaching Assistant

2016-2017

Lectured, supervised and graded examinations for first year undergraduates in Biological Laboratory (BIO F110)

## SUMMER INTERNSHIPS

### **BioLim Centre for Life Sciences, Chennai, TN, India**

Summer Intern

2014

Advisor: Dr. R. Madhan

Project Title: Green synthesis of silver and copper nanoparticles using *ziziphus mauritiana* extract, anti- microbial and enzyme inhibition for diabetes

### **ARMATS BIOTEK Training and Research Institute, Chennai, TN, India**

Summer Student Intern

2011

Advisor: Dr. P. Arumugam

Project Title: Synthesis of silver nanoparticles from the *Ocimum tenuiflorum* extract and its anti-microbial studies

## AWARDS

- Vice Chancellor's International Scholarship, Newcastle University - £5000 towards tuition fees, 2019
- Selected as JRF (Junior Research Fellow) under Summer Fellowship Training organized by Indian Academy of Sciences, 2014.
- Rajyapuraskar (Governor) Award winner in SCOUTS AND GUIDES, 2013
- 'A' certificate holder in National Cadet Corps (NCC), 2011

## SKILLS

- Animal and microbial cell culture, RT-qPCR, DNA/RNA extraction and other molecular biology techniques, Protein extraction/quantification/characterization, RNAseq analysis pipeline
- Proficient in Microsoft Office Suite, Google Suite, and basics of RStudio