

Vineeth A R

DST-INSPIRE Fellow, BS-MS* (Final Year)
Department of Biological Sciences
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RESEARCH EXPERIENCE

Indian Institute of Science Education and Research-Kolkata

Kolkata

Master's Thesis (Bachelor of Science-Master of Science*)

May, 2017 - Present

Research Mentor : Prof. Jayasri Das Sarma

Research Project : Spatial and Temporal profiling of Connexin 47 in
Mouse Hepatitis Virus induced Demyelination

Vanderbilt University

Nashville, TN

Vanderbilt International Summer Research Academy (VISRA 2016) Intern

June-July, 2016

Research Mentor : Dr. BethAnn McLaughlin

Research Project : Mutation of Apoptosis-signal regulating kinase1
(ASK1) phosphorylation sites (via CRISPR-Cas9)
and their role in stress sensing

<https://medschool.vanderbilt.edu/visp/person/vineeth-andisseryparambil-raveendran>

Indian Institute of Science Education and Research-Kolkata

Kolkata

Visiting Undergraduate Student

Oct, 2015-May, 2017

Research Mentor : Prof. Jayasri Das Sarma

Indian Institute of Technology, Delhi

Delhi

Science Academies' Summer Research Intern

May-July, 2015

Research Mentor : Prof. Seyed Ehtesham Hasnain

Research Project : Cloning, expression and in-silico analysis of sigma
family of proteins in *M.tuberculosis*

Indian Institute of Science, Bangalore

Bangalore

Summer Research Intern

May-July, 2014

Research Mentor : Dr. N Ravi Sundaresan

Research Project : Plasmid isolation and techniques

EDUCATION

Bachelor of Science-Master of Science (BS-MS)

Kolkata

Department of Biological Sciences

Aug, 2013-Present

Indian Institute of Science Education and Research-Kolkata

CGPA: 9.15/10 (as of Semester VIII)

12th Grade (Class 12)

St. Antony's HSS, Mala

The State Council Educational Research and Training (SCERT), Kerala

Percentage: 99.5 %

Kerala

Aug, 2011-April, 2013

FELLOWSHIPS, AWARDS, AND ACHIEVEMENTS

English Proficiency Exams

GRE - 322 (160 Verbal Reasoning + 162 Quantitative Reasoning)

TOEFL - 114 (30 Reading + 29 Listening +27 Speaking +28 Writing)

All India Rank 40 in Joint Council of Scientific & Industrial Research (CSIR) - University Grants Commission (UGC) National Eligibility Test (NET) for Junior Research Fellowship (JRF) & Lectureship (LS), December 2016.

Selected for Vanderbilt International Summer Research Academy (VISRA 2016) Undergrad Program.

Science Academies' Summer Research Fellowship, 2015; Offered by Indian Academy of Sciences, Indian National Science Academy and The National Academy of Sciences, India.

Innovation in Science Pursuit for Inspired Research-Scholarship for Higher Education (INSPIRE-SHE, 2013-2018) from Department of Science & Technology (DST), Gov. of India.

CONFERENCES AND SYMPOSIUMS

Advances in Life Sciences, 2017; IISER-Kolkata.

Indo-US Bilateral Symposium "Central Nervous System Virus Infection and its Therapy", 2016; IISER-Kolkata in collaboration with University of Iowa, USA and Banaras Hindu University, India.

National Seminar on Frontiers in Bio-Technology, 2016; St. Xavier's College, Kolkata.

Workshop on Mathematical and Computational Biology, 2016; IISER-Kolkata.

Frontiers in Modern Biology Symposium, 2015; IISER-Kolkata.

Selected for National Science Camp (Vijyoshi Camp), 2013; Organized by Kishore Vaigyanik Protsahan Yojana (KVPY), Gov. of India in collaboration with INSPIRE programme, IISc-Bangalore, and IISER-Kolkata.

TEACHING AND LEADERSHIP EXPERIENCE

Teaching Assistant for Biology Laboratory V (Histology, Immunohistochemistry, Animal dissection and Image Analysis) co-instructed by Prof. Jayasri Das Sarma at IISER-Kolkata.

Secretary of Nature Club, IISER-Kolkata, 2015-2016.

SKILLS AND TECHNIQUES

Basic Microscopy
Homology Modelling of Proteins
Histo-Techniques
Image Analysis (Image J)
Immunofluorescence
Immunohistochemistry
Mammalian Cell Culture
Molecular Cloning
Molecular Dynamics (GROMACS)
Mouse Dissection and Handling
Programming in C, C++, and Python
Protein Expression and Purification
Real-Time PCR
Western Blot
Adobe Photoshop, Illustrator, Premiere Pro

CONFERENCE PRESENTATIONS

*presenting author

Delineating the Cellular Defense Mechanism against Viral-Induced Oxidative Stress; Soumya Kundu*, Gisha Rose Anthony, Lucky Sarkar, Rahul Kumar, **Vineeth A Raveendran**, Jayasri Das Sarma; National Seminar on Frontiers in Bio-Technology, 2016; St.Xavier's College, Kolkata.

Mouse Hepatitis Virus-Induced DJ-1 regulates viral induced oxidative stress in Microglial cells; Soumya Kundu*, Gisha Rose Anthony, Lucky Sarkar, Rahul Kumar, **Vineeth A Raveendran**, Jayasri Das Sarma; Indo-US Bilateral Symposium "Central Nervous System Virus Infection and its Therapy", 2016; IISER-Kolkata in collaboration with University of Iowa, USA and Banaras Hindu University, India.

Deciphering the Cellular Defence mechanism against viral-induced oxidative stress; Soumya Kundu*, Rahul Kumar, **Vineeth A Raveendran**, Jayasri Das Sarma; Advances in Life Sciences, 2017; IISER-Kolkata.