

Shilauni Dadwal

Indian Institute of Science Education And Research, Mohali

Personal Details

DOB 2nd of July, 1998
Address IISER Mohali
Languages Hindi, English, Punjabi, Himachali
Mobile No. +91 8288997048
Email id shilauni.iisermohali@gmail.com;
ms16173@iisermohali.ac.in

Qualification

- 2016–Present **Integrated BS-MS (Dual Degree)**, *Indian Institute of Science Education And Research, Mohali*, (Majors in Biology).
- August 2020–Present **MS-Thesis – Morphology and alteration (with/without the infection MHV-A59) in the microglial with respect to the age.**
Supervisor – Prof. Jayasri Das Sarma (IISER Kolkata).
Co-Supervisor – Dr. Arunika Mukhopadhaya (IISER Mohali) .
- 2015–2016 **Higher Secondary Certificate, State Board(HPBOSE – 2016)**, *Govt. Senior Secondary School, Jawali Himachal Pradesh*, Percentage – 85.8%, .
Math, Physics, Biology, Chemistry
- 2013–2014 **Matriculation examination, State Board(HPBOSE – 2014)**, *Lord Krishna High School Jawali Himachal Pradesh*, Percentage – 92.5%.

Research Experience

- 2020–Present **Ms-Thesis Morphology and alteration (with/without the infection MHV-A59) in the microglial with respect to the age** , Prof. Jayasri Das Sarma.
Department of Biological Science,
IISER Kolkata
- 2020 **Neuroimmunology – Introduction to Mouse Hepatitis virus (MHV-A59) and the concept of Demyelination in Multiple Sclerosis in Mouse Model**, *Summer Internship – 2020.*
Prof. Jayasri Das Sarma,
Department of Biological Science

- 2019 **Neuropathology – Worked on a project i.e To study the regulation of Connexin43 expression upon MHV infection in the absence of CD4+ cells in vivo.**, *Summer internship – 2019.*
Prof. Jaysri Das Sarma,
Department of Biological Sciences, IISER Kolkata
- 2018 **Behavioural and Evolutionary Genetics**, *Summer internship – 2018.*
Dr Rhitoban Ray Choudhury
Assistant Professor, Biological Sciences, IISER Mohali
- Worked with **Nasonia** Model System.
 - Observation of behaviour by poking pathogenic bacteria on model system
 - Analysis of the data from Behavioural Experiment by using different statistics Methods
 - qPCR
- 2017 **Immunology**, *Summer internship – 2017.*
Dr. Sharvan Sehwat
Assistant Professor, Biological Sciences, IISER Mohali
- Worked with Transgenic Mouse Model System.
 - To inject virus in mice
 - Dissection of mice
 - Study different lymphoid organ in transgenic mouse body
 - DNA Extraction
 - PCR
- 2017 **Population Genetics** , *Winter reading project – 2017.*
Dr. N.G. Prasad (DEAN STUDENT)
Associate Professor, Biological Sciences, IISER Mohali
- Learned about Population Genetics.
- 2017 **Growth of trees in different environmental space and their statistical analysis**, *Winter Field work project – 2017.*
Dr. Arvind
Professor , Physical Sciences
- Study parameters that is essential for Statistical Analysis
 - Learned how to take reading in outdoor sample(i.e trees at different environmental space.

Lab Skills

- Plasmid Isolation from bacterial cells

- In vitro cell culture of DBT (Delayed Brain Tumor) cell line
Reviving (thawing) of cryopreserved cells
Cell counting using Hemocytometer
Passaging and maintenance of cells
Freezing of cells
- Mice dissection and transcatheter perfusion
- SDS PAGE and Western Blot analysis
- Densitometric analysis of protein blots
- PCR (for GAPDH gene)

Honors

- Certificate of Merit from HPBOSE for being at 34th position in Himachal in High School Examination in 2014
- Himachal Pradesh University BAMS and BHMS entrance rank – 395th
- Qualified JEE – MAINS In top 2 percent of 10 lakh student.
- Winner of Bhangra Folk Dance in INTER IISER CULTURE MEET 2K18
- Selected in IISER Kolkata Summer Program 2019
- Selected in IISER Kolkata Summer program 2020

Scholarship

- Scholarship under Dr. Ambedkar Medhavi Chhatervti Yojna for being in top 1% in High School Examination in 2014
- Scholarship under Dr. Ambedkar Medhavi Chhatervti Yojna for being in top 1% in high school Examination in 2016

Conferences

16th – 19th **Bilateral INDO-US Webinar on COVID Biology.**
Aug, 2020

10th – 11th **POST CENTENARY 150TH YEAR CELEBRATIONS OF MAHATMA GANDHI.**
Sept, 2020

Additional Skills

Additional Softwares

Microsoft Office	L ^A T _E X
Sage	Matlab

Area of Interest

- Immunology
- Neuro-immunology
- Virology

Courses taken

Biology, *Cellular basics of life, Gene Expression and Developmental Theory , Genetics and Evolution Theory, Behaviour and Ecology Theory, Structure and Function of Genomics, Microbial Physiology And Microbial Genetics, Bioinformatics, Cancer Cell Biology, RNA Biology, Biochemistry, Advanced Developmental Biology, Plants form and Function, Developmental and Physiology experimental Lab.*

Physics, *Mechanics Theory, Wave and Optics Theory, Thermodynamics and Statistical Physics, Electromagnetism Theory.*

Chemistry, *Chemistry of elements and Chemical Transformation Theory, Atom, molecules and Symmetry Theory, Spectroscopic and Other Physical-methods Theory, Energetic and Dynamics of Chemical Reaction Theory. .*

Mathematics, *Symmetry and Group Theory, Real Analysis in one variable, Curves and Surfaces, Probability and Statistics. .*

Extra-Curricular Activities

- 2016-present **Active participation in Institute Seminars in the Department of Biological Sciences at IISER Mohali, India.**
- 2016-present **Former member of Biology Acedmic Club .**
- 2016-present **Active member of Bhangra (Punjabi Folk) Dance Club .**
- 2016-present **Former member of cricket team.**
- 2016-2019 **Former member of vollyball team.**
- 2017 **Foundation Day of IISER Mohali – 2017, By Demonstrating to High School students how and why we can study onion peel cells under microscope, Date: 7th october 2017.**
- 2014-2016 **Head Girl in Seconday and Higher Secondary School.**

References

Jayasri Das Sarma, PhD, <https://www.iiserkol.ac.in/dassarmaj/contact.html>, Professor, Department of Biological Sciences.
Indian Institute of Science Education And Research Kolkata
dassarmaj@iiserkol.ac.in