

# Arun Chhikara

BS-MS BIOLOGICAL SCIENCES · 10TH SEMESTER, 5TH YEAR

Indian Institute of Science Education and Research (IISER) Mohali, Hostel 6, Room Number-519, Knowledge City, Sector 81, SAS Nagar,  
Punjab- 140306, India

☎ (+91) 9041378467 | ✉ ms14156@iisermohali.ac.in | 🏠 arunchhikara07@gmail.com

## Education

### Indian Institute of Science Education and Research Mohali (IISER) Mohali

Mohali, India

BS-MS DUAL DEGREE IN BIOLOGICAL SCIENCES

Aug. 2014 - May 2019

- At the end of 10th Semester, Overall CPI : 8.1/10, Biology majors CPI- 9.0/10

### Central Board of Secondary Education (CBSE)

Haryana, India

HIGHER SECONDARY EXAMINATION STD. XII

2014

- Passed with 90.0 % marks

SECONDARY EXAMINATION STD. X

2012

- Passed with 8.4 CGPA

## Work Experience

### BIO111 Biology Lab-I

IISER, Mohali

TEACHING ASSISTANT

Aug 2018 - Nov 2018

- Taught first-year BS-MS students the basic research techniques like microscopy, cell culture, molecular biology tools.

### Biophysical characterization of N-cadherin

IISER, Mohali

MS THESIS

May 2018 - Present

- Guide- Prof. Purnananda Guptasarma
- Project- Biophysical and biofunctional characterization of extracellular domains of Neural Cadherin.

### Instrumentation and molecular Techniques in Protein Engineering

IISER, Mohali

INTERN

May-July 2017

- Developed understanding of principles underlying instrumental biomacromolecular analyses through CD, SPR, ITC, DSC, MS-MALDI, confocal, fluorescence spectroscopy experimentally and theoretically.

### NNMCB Instructional School

IISC, Bangalore

TRAINING

May 2016

- Informative lecture series on Computational Neuroscience at National Network for Mathematical and Computational Biology were attended.

### mGlu Receptor trafficking in neurons (PI - Dr. Samarjit Bhattacharyya)

IISER, Mohali

INTERN

Jun - July 2016

- Learned culturing of primary neurons and HEK293 cell lines, transfection, immunoblotting & immunostaining assay.

### Retina regeneration in Zebra Fish (PI - Dr. Rajesh Ramachandran)

IISER, Mohali

INTERN

May - June 2015

- Gained Knowledge of microscopy, bacterial cell culture, preparation of E. coli competent cells, transformation, feeding zebra fish, gel electrophoresis, plasmid isolation, RNA isolation, SDS-PAGE.

## Technical Skills

### Laboratory

IISER, Mohali

2014 - Present

- Gained expertise in microscopy, cell culture, biochemical and biophysical assay and analysis, basic molecular tools such as Primer Design, cloning, PCR, Electrophoresis, isolation and quantification of DNA, RNA and Proteins.
- Instrumentation - CD, Mass Spec.(PMF), ITC, Micro Scale Thermophoresis, Confocal, fluorescence spectroscopy and chromatography technique.

## Softwares & Tools

IISER, Mohali

2017 - 2018

- I am familiar with the following software to work with :
- Python™, Microsoft Office®, Gene Runner, Snapgene (primer), Chimera, RasMol™ (Protein 3<sup>o</sup> Structure analysis)
- Bioinformatics Tools- NCBI, PubMed, UniProt, RSAT.

## Awards & Achievement

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### ACADEMIC

- 2014-19 **FELLOWSHIP**, Department of Science & Technology, DST-INSPIRE BS-MS, IISER  
2017 **QUALIFIED**, CSIR-NET (National Eligibility Test), Rank - 38 Life Sciences  
2015 **QUALIFIED**, All India Pre Medical Test (AIPMT)  
2012 **BRONZE MEDAL**, International Olympiad of Science, Silver Zone Society of Science

### SPORTS

- 2018 **GOLD MEDAL**, 7th Inter-IISER Sports Meet NISER, Odisha  
2017 **GOLD MEDAL**, 6th Inter-IISER Sports Meet IISER, Mohali  
2017 **GOLD MEDAL**, Intra-IISER Cricket Tournament IISER, Mohali  
2016 **SILVER MEDAL**, Intra-IISER Cricket Tournament IISER, Mohali

## Scientific Meetings & Participation

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### 3rd IBRO-APRC Chandigarh Associate School of Neuroscience

Panjab University, Chandigarh

DELEGATE, TRAINING, POSTER

Nov. 2018

- Theoretical lectures & practical demonstrations on behavioral pharmacological techniques in field of neuroscience were attended.

### Annual Meeting of Society of Neurochemistry India (SNCI)

CCMB, Hyderabad

DELEGATE

Dec. 2016

- Attended the lectures and demonstrations of basic techniques used in neurochemistry and neuroscience.

### 1st India International Science Festival (IISF) at Indian Institutes of Technology

IIT, Delhi

DELEGATE

Dec. 2015

- Lectures on various thematic sessions like - Plagiarism, Entrepreneurship etc. were attended.

### CBSE Regional Level School Exhibition

Panchkula, Haryana

CONTESTANT

Sept. 2013

- Introduced the concept of salicornia plantation to enrich soil fertility in saline areas.

### IISER Mohali foundation day

IISER, Mohali

DEMONSTRATOR

Sept. 2016

- Explained the concept of illusions and brain working to school students using animations, demonstrations, and games.

## Personal Profile

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### PERSONAL INFO.

- Date of Birth – 31.07.1996
- Gender – Male
- Nationality- Indian

### OBJECTIVE

- To leverage my independent learning in the field of biology and to pursue further education and follow a pathway of subsequent research in neuroscience, and its related areas. My future goals include establishing a career in research and educating people about science with the ultimate goal to exploit my potential as a neuroscientist.