



# BIPASA DEY



## ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	Doctor of Philosophy	Indian Institute of Technology Delhi	10
2018	University of Delhi, MSc. Chemistry	Kirori Mal College	69.6%
2016	University of Delhi, BSc. Hons. Chemistry	Sri. Venkateswara College	89.5%
2013	CBSE	Lady Irwin Sr. Sec. School	86%
2011	CBSE	Lady Irwin Sr. Sec. School	85.5%

## SCHOLASTIC ACHIEVEMENTS

- **Rank holder, University of Delhi:** Secured IIIrd position at Srivenkateswara college for the year 2013-14
- **INSPIRE 2011:** Scholarship by Department of Science and Technology, Govt. of India.
  - For securing highest marks in Chemistry in Xth standard.
- **Maj. Kaustav Seal Memorial Scholarship for Sciences:** By Bengal Association, New Delhi Description
  - For securing highest marks in sciences in Xth standard.
- **11th National Science Olympiad:** Ranked 7th in School

## WORK EXPERIENCE

- **Senior Research Fellow (Full Time), Enzyme Biotechnology Laboratory, Department of Chemistry, IIT Delhi** (December 2022- Present)

- Recombinant DNA technology: Cloning, expression, and purification of proteins (ion exchange chromatography, Affinity chromatography, Size exclusion chromatography)
- PCR, Site Directed Mutagenesis, SDS PAGE electrophoresis, Western Blotting
- Data analysis of SEM, TEM, FTIR, CD, and fluorescence, Cyclic voltammetry

- **Junior Research Fellow (Full time), Enzyme Biotechnology Laboratory, Department of Chemistry, IIT Delhi** (December 2019- December 2022)

- Study on Crosslinked enzyme aggregates: SEM imaging, DLS, Tem imaging

- **Research Assistant at Centre for Promotion of Nutrition Research and Training (CNRT), ICMR, New Delhi, India** (May 2019- October 2019)

- Study of consumption pattern of food and food products/ items high in fat, salt and sugar among selected cities/ town and rural population of India

## TEACHING ASSISTANTSHIP

- **CMP522: MSc Biochemistry Laboratory**

- Protein Purification, characterisation and enzyme kinetics study, Microbial growth experiments, DNA-RNA isolation, Gel electrophoresis, Determination of enzyme activity in biological samples

- **CMP100: Btech. Chemistry Laboratory**

- Titrations, Potentiometry, Conductometry, Preparation of metal complexes and important organic compounds, Kinetics, Chromatography, Qualitative and quantitative estimation of organic compounds.

## PUBLICATIONS & PATENTS

- Bipasa Dey, Varsha Panwar, Tanmay Dutta: **Fructose-aided cross-linked enzyme aggregates of laccase: an insight on its chemical and physical properties**, Process Biochem. 133,220-227, **2023**
- **Varsha Panwar, Bipasa Dey, Javed Sheikh, Tanmay Dutta** A thermostable bacterial laccase for sustainable dyeing using plant phenols \* RSC Advances. 12, 18168-18180, 2022
- **Bipasa Dey and Tanmay Dutta** Laccases: Thriving the domain of Bio-electrocatalysis. \* Bioelectrochemistry. 146, 108144, 2022

## CONFERENCE

- Emerging Trends in Drugs Development and Natural Products (ETDDNP), **2018**
- Recent Trends in Biomolecules and Therapeutics (RTBT), **2023**
- 92nd Annual meet of The Society of Biological Chemists (SBC), **2023**
- IR imager workshop by Central Research Facility, Indian Institute of Technology, Delhi, **2023**
- Internal Conference on Crossroads of Chemistry and Biology: A Modern Prospective (ICCB), **2024**

## INTERNSHIPS

- **Algol Chemicals India Pvt. Ltd.** (July 2019) : Regulation Compliance Division



# BIPASA DEY



## IIT COURSE

Degree	Institute	CGPA
Doctor of Philosophy	Indian Institute of Technology Delhi	10

## COURSES DONE

Research Writing, Advanced Cell Biology, Applied Biocatalysis, Chemical Biology, Intro. To Structural Biology, Special Module On Civilization-i