



**Zeba Tarannum**  
 PG (II Year II Semester)  
 M.Sc. Biotechnology  
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 Registration No: 19610035/2021

Indian Institute of  
 Technology  
 Roorkee



**VERIFIED**

### Area of Interest

Molecular Biology, Microbiology, Tissue Culture, Diagnostics

### Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2020	M.Sc. 2nd Year	Indian Institute of Technology, Roorkee	8.500
2019	Graduate (UG)	University of Calcutta	61.86 %
2016	Intermediate (Class XII)	Delhi Public School, Ruby Park (CBSE)	79.00 %
2014	Matriculate (Class X)	Welland Gouldsmith School (ICSE)	85.40 %

### Projects

**Transgenic citrus expressing pHsfa2a gene exhibit resistance to heat stress** | Indian Institute of Technology, Roorkee January 2021 - April 2021

- Transgenic plant of Citrus sinensis and Citrus aurantifolia with rootstock Citrus jambhiri were obtained by Agarobacterium mediated transformation. Epicotyl segments of the germinated plantlets were used as explants. HSFA2a gene of Pisum sativum was transformed in the transgenic citrus. Heat Shock transcription factor plays a crucial role in plants response to several abiotic stress specifically heat stress. The gene was cloned in cloning vector pJET then into expression vector pCambia 2301. pCambia is binary vector that is transformed in citrus crop by Agarobacterium transformation. After four weeks of incubation at 28C, they are micro-grafted with the rootstock. The transgenic plants were screened for and subjected to heat stress.

### Awards / Scholarships / Academic Achievements

- Shortlisted for interview round for Integrated PhD programme in Biology at Indian Institute of Science Education and Research, TVM in 2019
- Department of Biotechnology, Govt. Of India Scholarship in M.Sc. program for the duration of two years (2019-2021)
- Shortlisted for interview for admission to Integrated PhD programme to Regional Centre for Biotechnology in 2019
- Shortlisted for interview round for Integrated PhD programme in Biology at IISER Tirupati in 2019

### Skills

Computer languages	Python, C++
Software Packages	BLAST, MS Office
Additional Courses	Bacterial Transformation, Transduction and Conjugation, SDS-PAGE, Chromatographic Purifications, Antibiotic Assay, Immunodiffusion Assay, Plant Tissue Culture
Minor/Honors Courses	Organic and Physical Chemistry, Botany, Environmental Science, Microbiology, Immunology, Molecular Biology.
Languages Known	English (SRW), Bengali (SRW), Hindi (SRW)

### Positions of Responsibility & Extra Curriculars

**Qualified with First Division** | Sarva Bharatiya Charukala Mandir

February 2012 - January 2013

- Qualified 3RD Year Examination from the Sarva Bharatiya Charukala Mandir (ALL-India Fine Arts Association), West Bengal in Fine Arts with First Division

**Placement Coordinator** | Placement And Internship Cell, IITR

June 2020 - Present

- Working as a placement coordinator in Placement and Internship Cell in Indian Institute of Technology, Roorkee
- Coordinating with the organizations for the planning and conduction of placements & internships

**Certification** | Zerodha Varsity

August 2020

- Completed a certification program in Stock Market Basics

**Participant** | Modern Trends in Microbiology (MTiM)

October 2018

- Participated in posted presentation in the Two day National Seminar at St. Xaviers College, Kolkata on October, 2018 and September, 2017

**Certification** | National Programme on Technology Enhanced Learning (NPTEL)

July 2018 - October 2018

- NPTEL Online 12 weeks course in Industrial Biotechnology and awarded with Elite certificate

### References

**Dr. Harsh Chauhan**

Assistant Professor

Indian Institute of Technology, Roorkee

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