


# Himadree Das

## Doctoral Research Scholar

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### Education

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08/2013 – 07/2018      **Integrated M.Sc, Tezpur University**   
Degree in Bioscience and Bioinformatics  
CGPA: 7.58  
  
Masters Project Dissertation on *FOXP3 gene polymorphism and target genes expression in Head and Neck Squamous Cell Carcinoma (HNSCC) patients of Assam.*

### Ph.D Coursework

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07/2019 – 11/2019      **Biomaterials (BT618), 1st Semester**  
Grade: AA    S.P.I: 9.00  
  
07/2019 – 11/2019      **Cell Signalling and Development (BT615), 1st Semester**  
Grade: AB    S.P.I: 9.00  
  
07/2019 – 11/2019      **Human Biology and Diseases (BT633), 1st Semester**  
Grade: BB    S.P.I: 9.00  
  
01/2020 – 05/2020      **Essential of Genetics (BT619), 2nd Semester**  
Grade: AA    S.P.I: 10.00    C.P.I: 9.25

### Current Research Interests

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- Biopolymer conjugates and nanomaterials for therapeutics
- Biomaterials & Tissue Engineering
- Targeted Drug Delivery Systems/ delivery of antitumor agents
- Novel Biomaterials for environmental remediation

### Achievements

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2018                      **GATE (Life-sciences)**  
2019                      **GATE (Biotechnology)**

### Professional Experience

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2019                      **Junior Research Fellow, IIT - Guwahati**  
Project under the guidance of Dr. Debasish Das, Department of BSBE  
  
2015                      **Summer Intern, Tezpur University**  
Summer Project under the guidance of Dr. Manabendra Mandal, Department of Molecular Biology and Biotechnology  
  
2016                      **Summer Intern, CSIR-NEIST**  
Jorhat                      Summer project under the guidance of Dr. B.S. Bhau, MAEP Divison

2018  
Lucknow

Research Trainee, MRD LiveSciences

## Teaching Experience

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**Immunology (M-503)**

**Biochemistry (Z00-HC-3036)**

**Basics of bioinformatics (Z00-HE-5016)**

01/2020 – 04/2020 **Essentials of Biomolecules: Nucleic Acids and Peptides**, MOOC Online Course

01/2021 – 04/2021 **Essentials of Biomolecules: Nucleic Acids and Peptides**, MOOC Online Course

## Conferences

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09/2021 **CEMS Topical Meeting Online Emergent Bioengineering Materials**, RIKEN CEMS

01/2021 **Online workshop on Powder X-Ray Diffraction Techniques and its Applications**, North East Centre for Biological Sciences and Healthcare Engineering (NECBH), IIT-G

06/2020 – 07/2020 **Author Webinar Series “Learn to Publish”**, Wiley

2020 **WATER 2020, Issues & Challenges in Water Treatment and Allied Research for Sustainable Environment**, IIT- Guwahati

2018 **Biotech hub skill development series (BSDS)**, MRD LifeSciences (P) Ltd.

2018 **Institutional Biotech Hub Seminar on Careers in science and Biotechnology**, Tezpur University

## Technical Skills

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|---|---|
| • Field Emission Scanning Electron Microscope | • Fourier Transform Infrared Spectroscopy |
| • UV-vis Spectroscopy                         | • Fluorescence Spectroscopy               |
| • Gel Electrophoresis                         | • SDS-PAGE                                |

## Soft Skills

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|--------------------|-------------------|
| • Problem Solving  | • Time Management |
| • Team Work        | • Decision-making |
| • Active Listening |                   |

## Publications

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**Synthesis of highly fluorescent, amine-functionalized carbon dots from biotin-modified chitosan and silk-fibroin blend for target-specific delivery of antitumor agents**, *Carbohydr. Polym.* 277, 118862 (2022).  
Horo, H., Saha, M., Das, H., Mandal, B. & Kundu, L. M.

**Chitosan-derived biomaterials in cancer therapeutics and biomedical imaging**,  
*Himali Horo, Himadree Das, Gourav Bhattacharjee, Lal Mohan Kundu*  
Book Chapter (Submitted)