

ANKITA DATTA

(+91) 9354202014, ankitaa.datta@gmail.com

Indian Institute of Technology Guwahati, Guwahati, Assam, 781039 India

ACADEMIC RECORD

M.Tech July 2020	Rural Technology Indian Institute of Technology, Guwahati, India Principal Courses Undertaken : <ul style="list-style-type: none">• Natural resource management• Livelihood management and agro-technology• Rural Entrepreneurship, policy making and IPR• Solid waste management• Energy economics and efficiency Thesis: <u>Enzymatic assays for quality testing of soils polluted by different kinds of anthropogenic wastes</u> May 2019- June 2020	GPA 8.0/10
B.Tech June 2016	Biotechnology G.B. University of Agriculture & Technology, Uttarakhand, India, Principal Courses Undertaken : <ul style="list-style-type: none">• Vaccine technology, Microbiology• Biochemistry, Immunology• Principles of Molecular Genetics• Bio-separation & Downstream process, Fermentation Technology Thesis: <u>Molecular docking of Withanolides (secondary metabolites) from withania somnifera (Ashwagandha-plant) against vimentin protein</u> May 2015- June 2016	

RESEARCH EXPERIENCE

INDUSTRIAL TRAINING

JUBILANT LIFE SCIENCE

AUG 2016-NOV 2016

- Plant roots microbes that help reduce chemical fertilizers and boost agriculture production

DABUR RESEARCH FOUNDATION

May 2014- June 2014

- Conducting anti-oxidant studies and exposure to animal handling for hair growth studies

ACADEMIC PROJECTS

- Bio-chemical methane potential trial for rice husk
Agriculture Waste Anaerobic Digestion Bio-Methane Potential Rice Husk
Prof. Ajay Kalamdhad, IIT Guwahati
Jan 2019- May 2019
- Soil analysis (Natural Resource Management)
Organic Carbon Organic Matter Available Sodium Available Nitrogen Available Phosphorous
Dr. Sudip Mitra, IIT Guwahati
Feb 2019- May 2019
- Bethany society field survey, Meghalaya, India
Sustainable livelihood Social Inclusion Inclusive Education Zero Waste
Research methodology and field communication
Dr. Sudip Mitra and Dr. Siddhartha Singha, IIT Guwahati
March 2019

PUBLICATIONS

- 2017 **Datta, A.**, Jain, G., Awashthi, H., Singh, M., & Agrawal, S. *Molecular Docking of Withanolides from Withania Somnifera against Vimentin Protein*. Indian Res. J. Genetics and Biotechnology. 9(4) 609-612
- 2019 **Datta, A.**, Gujre, N., & Mitra, S. *Soil Enzymes: A Diagnostic Tool for Indicating Soil Quality Affected by Municipal Solid Waste* (under review)
- 2019 **Proceeding** Published on International Conference on Waste Management, IIT Guwahati
Datta, A., Kumar, A., & Kalamdhad, A., *Bio-chemical Methane Potential Trial for Rice Husk*

CONFERENCES

- | | |
|------------------|--|
| April
2020 | International International Conference on Emerging trends in Environment Science and Technology, Tezpur University, India.
Ankita datta, Dr. Sudip Mitra. <i>Soil Dehydrogenases Enzyme as a Potential Agent to Revitalize Soils Contaminated by Municipal Solid Waste</i> .
Oral Presentation |
| February
2020 | International Waste Management, IIT Guwahati, India
Ankita Datta, Anuj Kumar & Prof. Ajay Kalamdhad. <i>Bio-chemical Methane Potential Trial for Rice Husk</i> .
Poster Presentation |
| March
2020 | National Research Conclave, IIT Guwahati, India
Ankita Datta, Dr. Sudip Mitra. <i>Soil Enzyme Activity in Response to Heavy Metal Concentration</i> .
Poster Presentation |
| July
2019 | International Field Diagnostic & Plant Clinic Operation, Centre for Agriculture & Bioscience International (CABI) in collaboration with MS Swaminathan Research Foundation (MSSRF). Module 1. Plant Wise Training
Module 2. Giving Good Recommendation. |

PROFICIENCIES

Technical Expertise	UV-Visible Spectrophotometer Atomic Absorption Spectroscopy High Performance Liquid Chromatography Fluorescence Microscopy Kjeldhal Method	Analytical Techniques	Heavy Metals Biological Oxygen Demand ELISA Microbial Diversification DNA Extraction & Gel Run
	Software Skills		DATA Science (IIT Madras) MS- OFFICE C language Proficiency

ACHIEVEMENTS

2020	Stanford Medicine, The School of Stanford University School of Medicine Participated in “The science & status of COVID vaccines” secured 80%
2020	Harvard Medical School , participated in “ <u>Mental Health Effects of the COVID-19 Pandemic</u> ” Secured 92% got certified
2020	Record of Achievement from World Health Organization on participating in the Module of Pandemic Influenza Vaccines: National Deployment and Vaccination Plans
2018	Rank Holder in Graduate Aptitude Test in Engineering (GATE)
2014	2 ND Rank Holder in ACCOLADE , University Level Technological Fest
2012	Rank Holder in All India Engineering Entrance Examination (AIEEE) 38 Thousand all India rank out of 11 Lakh

ACKNOWLEDGMENT & CERTIFICATION

- **Rural Industrialization through Innovative Process Mechanization**: seminar organized by THE INSTITUTE OF ENGINEERS (INDIA)
- RESEARCH CONCLAVE: participated in workshop on **INTELLECTUAL PROPERTY RIGHTS**, 2019
- PROSPECTS and **APPLICATION of BIOTECHNOLOGY in BIOMEDICAL SECTORS**: participated in seminar conducted by dept. of Molecular Biology and Genetic Engineering
- Participated in one-day workshop on **MATLAB** organized by The Institution of Engineer

POSITION of RESPONSIBILITY

Jan 2020	Volunteer at Rural Dialogue-2020 IIT Guwahati
Dec 2019	Volunteer at INDUSTRY-ACADEMIA INTERFACE, IIT Guwahati
2015-16	General Secretary at University level in SPIC MACAY (https://spicmacay.org/)
Mar 2016	Co- Convenor of Dharohar (National Level Fest) SPIC MACAY
2014-15	Volunteer at NATIONAL SERVICE SCHEME

LANGUAGES

English (Advanced)
Hindi
Bengali
French (initial proficiency)

Research Interest

Rural energy and bioenergy
Sustainable development & livelihood
Global poverty and economics
Intellectual Property Rights

REFERENCES

Deputy Director &
Prof. S.K. Kakoty
IIT Guwahati
sashin@iitg.ac.in

Dr. Sudip Mitra
Associate Prof.
CRT, IIT Guwahati
sudipmitra@iitg.ac.in

Prof. and Head Dr. Sanjeev Agrawal
Biochemistry, GB Pant Uni. Of Agri & Tech.
Uttarakhand
sanjeevagrwal14@rediffmail.com