

Somya Sadaf

EDUCATION

2019 – 2021

MASTERS OF TECHNOLOGY – Birla Institute of Technology, Mesra, Ranchi

- + Environmental Science and Engineering
- + Overall GPA – 8.9

2017 – 2019

MASTERS OF SCIENCE AND TECHNOLOGY – Birla Institute of Technology, Mesra, Ranchi

- + Biotechnology
- + Overall GPA – 7.69

2014– 2017

BACHELOR OF SCIENCE AND TECHNOLOGY – Ranchi university

- + Biotechnology
- + Overall GPA – 76%

2010 – 2012

HIGHER SECONDARY EDUCATION –DAV Hehal, Ranchi

PROJECTS

Current Project

REMOVAL OF MICROORGANISMS FROM RIVER WATER USING ELECTROCOAGULATION"

M.Tech Project

MULTIVARIATE ANALYSIS AND CODON USAGE BIAS OF NIPAH VIRUS

MS.Tech Project

BACTERIOLOGICAL ANALYSIS OF WATER SAMPLE (COLIFORM GROUPS)

Graduation Project

INTERNSHIPS

POSTER PUBLICATION IN NATIONAL CONFERENCE ON GREEN TECHNOLOGY AND SUSTAINABLE AGRICULTURE, AMITY UNIVERSITY, RANCHI

Codon biasing, 2019

WORKED AS AN INTERN IN RIMS, RANCHI

Biochemistry lab, blood bank

LABORATORY SKILLS

WESTERN BLOTTING, QRT-PCR, PCR PRIMER DESIGN, IMMUNOFLUORESCENCE, ENZYME KINETICS, ENZYME ASSAYS, AMBIENT AIR QUALITY MONITORING, WATER SAMPLE ANALYSIS (PHYSICAL AND CHEMICAL PARAMETERS), SPECTROPHOTOMETRY, CALORIMETRY

Analytical approaches- spectrophotometry, electrophoresis, different types of microscopes, calibration of pH meter and colorimeter, centrifugation, chromatography (Column, TLC, paper), LAF, autoclave, basics of HPLC and MS.

Preparation of culture media and plating techniques, staining procedures, solid state fermentation, Biochemical characterization of bacteria

Bioreactor design analysis, growth and enzyme kinetics, immobilization and sterilization techniques, Molecular/ Recombinant techniques- RAPD, RFLP, AFLP, Blotting (southern, western), RNA, DNA and protein isolation, PCR techniques, cDNA preparation, gel elution, cloning, ligation, transformation, primer designing

Various Bioinformatics tools- CLUSTALW, Hex 6.1 PyMOL viewer, MEME Suite, MEGA 7, SWISS MODEL/ GENO3D, CODON W, Docking

SOFTWARE

Basics of C, Basics of Data Structure, Basics of DBMS, SQL, Basics of PERL, Basics of R, MSOFFICE – MS WORD, MS EXCEL, MS POWERPOINT

AWARDS

- + Certified in Basic TQM by TATA STEEL
- + Certified in Career edge by TCS ION
- + Attended Symposium on Extra Disciplinary Advances in Biotechnology and Genetics, Ranchi University
- + Certified by DBT for participation as a trainee in FOLD SCOPE workshop for teachers and students of aspirational district of Jharkhand, 2019.
- + Certified for participating in the workshop on Statistical methods of Biological sciences and R programming, twinning TEQUIP III BIT MESRA and ICT Mumbai, 2019.
- + Winner of Debate in futuristic and innovative ideas in development of science on the occasion of National Science Day, 2019.
- + GP birla scholarship award (50% fee waived off)

PERSONAL

ACTION

DATE OF BIRTH: 2nd August, 1995

LANGUAGES: English, Hindi

NATIONALITY: Indian

HOBBIES

Gardening, Listening music

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