

CURRICULUM VITAE



Rabindra Kumar Mahato

PhD Research Scholar

South Asian University, Industrial Biotechnology Lab,
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Presently working on project entitled, “Anaerobic Clostridial fermentation of food waste for the production butanol and hydrogen” superior alternative biofuel under supervision of Dr.AKR Gobinath”

OBJECTIVE:-

Seeking a position to utilize my knowledge, skills, experience and abilities in the life science sector of any industry, institution and organization that offers professional growth and devoting my further studies on research and development.

Work Experience: -

- Worked as Business Development Executive at **Purlieus Inc.** Noida, U.P and visited several paper industries at Kolkata for installation and supervision of E.T.P
- Worked as Technical Executive at Purlieus Inc. Noida at ETP plant of **Kanpur Edible Oil**, Rannia Dehat, Kanpur, Uttar Pradesh for 6 month.
- Worked as Technical Executives in **Enviro-way Bioscience Pvt Ltd**, Gurgaon at ETP plant of Chandhok Textile Enterprises (Pvt.) Ltd. C-81,Industrial area,Sikandrabad-203205(U.P)
- Worked as a Technical Executives at ETP plant of **OTR Paper Mill**, B-3 &4,Industrial area, Sikandrabad, Bulandshahar, U.P for 1year
- Worked as a Research Trainee in R& D Company named **Codon Biotech Pvt Ltd**, Noida, India for 6 month selected through BCIL-DBT all India level exam.

Academic Qualification:-

Examination	Year of passing	School/College/Board/University	Percentage
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S.L.C	2005	Gyan Mandir English S.School, Mahendranagar HMG Nepal	62
HSEB	2007	Model Campus, Janakpur, HSEB Board	65.70
Bachelor in Science Microbiology(Major)	2010	Trichandra Multiple Campus,Ghantaghar, Kathmandu, Tribhuvan University	65.00
Botany(Extra Specialization)	2011	Trichandra Multiple Campus, Ghantaghar,Kathmandu, Tribhuvan University	65.44
Master of Science in Biotechnology	2013	Lord Buddha Education Foundation, Kathmandu, Nepal Sikkim Manipal University, India	78.5
P.hD in Biotechnology	2020-2021	South Asian University, New Delhi	About to finish

[2013-2016 Job experience at various company and Industries]

Dissertation: -

Study of essential oil of *Eucalyptus camaldulensis* and its antimicrobial effect.

Research Project: -

- “Study of essential oil and extract of *Eucalyptus species* on medically important fungal isolates” at Codon Biotech Pvt. Ltd Noida
- Analysis on the effect of Paper Mill Effluent on germination of various crops.
- A case study report on Effluent Treatment Plant of Kanpur Edible Oil, under the Supervision of Purlieus Inc.

Technical Expertise-

- **Molecular biology:** DNA Isolation from different sources, Quantification of DNA, DNA amplification, Plasmid isolation, restriction digestion, Transformation
- **Chromatography:** Paper Chromatography, Thin Layer Chromatography, Gas Chromatography, HPLC, FPLC
- **Microbiology:** Preparation of different media, selective agar media, Culturing of microorganism through streak plate, pour plate, spread plate, serial dilution method, Staining Techniques, Antibiotic Sensitivity Test.

- **Downstream Process**:-Protein harvesting, purification using ion exchange column and size exclusion column in FPLC, protein desalting, concentrating and Precipitation.
- **Fermentation process**: - Running of various Batch and continuous bioprocess, aerobic and anaerobic fermentation, Solid and submerged fermentation with media optimization tool in bioprocess engineering.

Instrumentation:

- Centrifuge, pH meter, Spectrophotometer, Colorimeter, SDS-PAGE, Gas chromatography, Fast protein liquid chromatography, anaerobic purging station and sonicator.

Industrial Expertise: -

- Installation of ETP plant, consultancy of ETP, smooth running and supervision of plant, ETP effluent analysis

Computer skills: -

MS-Office, Media Optimization Tool, Central Composite Design with Design software, Ability to work on Software for Gas chromatography and HPLC

Publication: -

- **Rabindra Mahato, Iffat Fatema, Gobinath Rajagopalan (2020).**: Thermostable, solvent, surfactant, reducing agent and chelator resistant α -amylase from Bacillus strain IBT strain 108: A suitable candidate enables one step fermentation of waste potato for high butanol and hydrogen production. **Waste and Biomass Valorization**, DOI 10.1007/s12649-020-01017-1
- **Rabindra Mahato, Dharmendra Kumar, Gobinath Rajagopalan (2020).**: Biohydrogen production from fruit waste by Clostridium strain BOH3, **Renewable energy**, 153 (2020) 1368-1377

Certificate Course

- 6 Month Diploma of Patent Analyst from Ennoble IP, Noida.

Workshop/Conference:

- Oral presentation in the 5th International Conferences on the Developments in Renewable Energy Technology (ICDRET'18) in the topic **“A Highly Suitable**

Amylase: To support simultaneous saccharification and butanol (a superior liquid fuel) production from food waste by anaerobic clostridial fermentation” held in Kathmandu, Nepal from 29-31 March,2018.

- Abstract acceptance and invited to give oral presentation on “**Production of superior alternative fuels biohydrogen and biobutanol from native and pretreated fruit waste by clostridial fermentation**” in **8th International Conference on Bioprocessing (IBA-IFIBiop 2019)** on Miri, Sarawak, Malaysia which is going to held from May 1st -5th, 2019
- Presented poster on “**SSF of agricultural residues for butanol production by Clostridium Sp. BOH3**” at “**BIOSANGAM” AN INTERNATIONAL CONFERENCE ON Innovations and Translational Dimensions: Food, Health and Environmental Biotechnology** and has been awarded **3rd Prize Category in Industrial Biotechnology** session of BioSangam 2018 organized MNIT Allahabad, March 9-11, 2018
- Workshop on “**IP SENSE**” an IP/IPR sensitization programme for Researcher /Scholars/Industry Experts on 14-15 March, 2015 at Ennoble IP, Noida.
- Workshop on “**Key issues in commercialization of Biotechnology**” conducted on March 3,2014, organized by Department of Biotechnology, Govt of India and Biotech Consortium of India limited (BCIL), New Delhi
- Workshop about “**Time Management and Communication skills**” conducted on January 20,2013 by Mid-Valley International College, Gyaneshwor,Nepal

Personal Details

Father’s Name	:	Late. Munindra Mahato
Mother’s Name	:	Dhaneshwari Devi
Date of Birth	:	1988-Oct-21
Sex	:	Male
Nationality	:	Nepal
Language Known:	:	Hindi/English/Nepali/Maithili/
Marital Status	:	Married
Hobbies	:	Reading books, spiritual science, scientific Magazines, Cooking and visiting new places, Yoga and meditation

Reference

Dr.AKR Gobinath, (PhD Supervisor)
Assistant Proffessor,

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Dr.Triпти Bhatnagar, (**Project Supervisor**)
Managing Director
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DECLARATION:-

I hereby declare that the all above information is true to the best of my knowledge and belief.

Date: - 22-02-2021

Place:- Akbar Bhawan

Signature
Rabindra
