Sanchit Regmi

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PROFESSIONAL PROFILE

Highly skilled Biotechnology graduate with a strong foundation in laboratory techniques. Proficient in plant tissue culture, microbiology, molecular biology, animal cell culture, and industrial biotechnology. Demonstrated leadership skills as an Executive Member of Kathmandu University Biotechnology Creatives (KUBiC). Skilled in report writing, and effective communication. Seeking a challenging role to apply expertise and leadership to drive innovation and achieve project goals.

PROFESSIONAL EXPERIENCE

- **Intern in Ficus Biotech Pvt. Ltd., Budhanilkantha, Kathmandu, Nepal**
  [1st February 2024 to 29th February 2024]

  Key Skills:
  - Plant Tissue Culture
  - Good Laboratory Practices (GLP)
  - Operating Laboratory Equipment
  - Plant Saplings
  - Hand-on Approach to Laboratory Research

- **Executive Member of Kathmandu University Biotechnology Creatives (KUBiC)**
  [August 2022 to September 2023]

  Key Skills:
  - Leadership Development
  - Teamwork
  - Team Building
  - Team Management
  - Decision-Making
  - Event Management
  - Event Planning

EDUCATION

- **Bachelor's Degree [August 2019 to August 2024]**
  Kathmandu University (Dhulikhel, Kavre, Nepal)
  Program: BTech in Biotechnology
  Average GPA= 3.54

- **School Leaving Certificate Examination Degree [Year 2017 to Year 2019]**
  DAV Sushil Kedia Vishwa Bharati Secondary School (Lalitpur, Nepal)
  Average GPA= 3.46

- **Secondary Education Examination Degree [Year 2017]**
  Sathya Sai Shiksha Sadan (Tokha-3, Kathmandu, Nepal)
  Average GPA= 3.40

SKILLS

Lab-based:

- Plant tissue culture: Meristem culture, Callus culture, Embryo culture, Primary and secondary hardening of plants
- Microbiology: Bacterial and Fungal cultures, Biochemical Tests, Antimicrobial Tests, Subcultures of microorganisms, Handling of Microscope
- Molecular Biology: Bacterial and Fungal Genomic DNA Extraction, Gel electrophoresis, PCR, Plant DNA Extraction, SDS-PAGE
- Animal cell culture: Tissue and Suspension culture, Subculture, Cell viability Test
- Bioinformatics: MEGA software, Blast, Phylogeny Construction
- Industrial Biotechnology: Centrifugation, Fermentation technology, TLC, Column Chromatography, Spectrophotometry, Autoclave, Hot air oven, Incubator, Biosafety Cabinet
- Immunology: ELISA test, HIV test, Blood type Identification

Others:

- Proficient in Nepali, and English languages
- Proficient in writing Devanagari scripts
- Proficient in Grammar and Punctuation
- Excellent communication skill
- Proficient in Typing
- Active listening
- Attention to detail
- Computer skills
- Excellent research skill
- Proposal & report writing skills
- Proficient in Microsoft Office suite (Word, Excel, and PowerPoint)

ACADEMIC PROJECTS

- **Melodies and Mutations of Passerines: A Comparative Protein Sequence Alignment and SNP Analysis Study of Distinctive Traits in Song-Learning and Non-Song Learning Birds using (Group Project):**
  Analysis and elucidation of key SNP differences in Song-learning and Non-Song Learning Birds of 11 distinct protein sequences from NCBI by using MEGA software and MAF algorithm.

- **Water Quality Analysis from Natural Water Sources (Group Project):**
  Conducted water quality analysis of 11 chemicals in 3 different natural water sources in valley using spectrometric techniques.

- **Isolation, Characterization, and Bioactivity of Endophyic Microbiomes in *Paris polyphylla Sm.* (Bachelor's Thesis Project):**
  Isolated different endophytic microbial strains from the rhizomes of *P. polyphylla Sm*. Identified the isolated endophytic microbial strains through biochemical and molecular characterizations. Evaluated and characterized secondary metabolites isolated from endobiome to analyze *in-vitro* evaluation of bioactivity assay of microbial crude extracts.

OTHER INVOLVEMENTS/ACTIVITIES

- Contributed as a member of the organizing committee in the event Genesis (Annual event of KU Biotechnology Department) held on May 11-12, 2023
- Volunteered at the First National Biotechnology Conference 2023 organized by the Department of Biotechnology, Kathmandu University on May 11-12, 2023.
- Participated in International Symposium on Gene Regulation to Genome Architecture 2020.
- Participation for pre-event of workshop "Creative Outbrust" conducted by Amnesty International Kathmandu University Youth Network on July 28,2022.
- Participated in National Youth Conference on Science, Technology, Innovation and Entrepreneurship (NYC-STIE) 2021 organized by Government of Nepal, Ministry of Youth and Sports.