

CURRICULUM VITAE

PERSONAL INFORMATION



Saroj Babu Koirala

📍 Tamakoshi rural municipality-4, Dolakha, Nepal

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PROFESSIONAL SUMMARY

Biotechnology enthusiast currently working as the Technical Officer at Nepal Academy of Science and Technology (NAST), particularly interested in bioenergy, molecular biology, and bioinformatics.

WORK EXPERIENCE

Mar 2024 - Current

Technical Officer (Biotechnology)

Nepal Academy of Science and Technology, Khumaltar, Lalitpur, Nepal

- Perform lab-based research on scientific projects related to bioenergy, environment, and biotechnology.

July 2022 - Feb 2024

Scientific Assistant

National Forensic Science Laboratory, Dhangadhi Branch, Kailali, Nepal

- Assist in performing forensic investigations of wildlife and DNA-related cases by preparing reagents and operating laboratory equipment as per standard operating protocols
- Conduct morphological and microscopic tests for the identification of wildlife parts and products under expert supervision
- Assist in the documentation and analysis of biological evidence by maintaining the chain of custody

Apr 2021 - Mar 2022

Secondary Level Science Teacher

Shree Siddheshwor Secondary School, Tamakoshi-4, Dolakha, Nepal

- Instructs students on Science, Environmental Science, Maths, and Computer Science
- Conduct lab experiments and extracurricular activities
- Coordinate and monitor routine activities of the School Magazine and the School Environment Club

ACADEMIC QUALIFICATION

Aug 2016 - Nov 2020

B. Tech in Biotechnology

Kathmandu University (KU), Dhulikhel, Kavre, Nepal

Graduated with a CGPA of 3.22 on a scale of 4.00.

Thesis Project - Techno-economical assessment of *Moringa* crude seed oil production using SuperPro Designer

July 2013 - Oct 2015

Higher Secondary Examination Board - Science (Biology)

NASA International Higher Secondary School, Tinkune, Kathmandu, Nepal

Graduated with an average percentage of 69%.

Aug 2008 - June 2013 **School Leaving Certificate (SLC)**
Shree Golmeshwor Secondary School, Tamakoshi-4, Dolakha, Nepal
Graduated with 81.25%

RESEARCH ACTIVITY

- Research/Review Article
- Prevalence, Antibiotic Susceptibility, and Molecular Typing of *Staphylococcus aureus* and Methicillin-resistant *S. aureus* (MRSA) among Domestic Animals in Dharan, Nepal
 - Biotechnological Approach to *Moringa*: Achievements, Limitations, and Future Directions
- Others
- Phytochemical Screening and Anti-microbial Properties Analysis of *Taxus mairei*

TRAINING & PARTICIPATION

- June 2020 **Molecular Dynamics Simulation using Supercomputer**
Participated in 15 15-day workshop organised by the Department of Biotechnology, Kathmandu University
- Apr 2022 - May 2022 **Online Volunteer**
United Nations
Participated in an online campaign, "My Votes Matter" led by UNDP and UNV Nepal
- Sep 2018 - Sep 2019 **Executive Member**
Kathmandu University Biotechnology Creatives(KUBiC)
Organiser of Biotech Meet 2018, Volunteered in departmental programs and sports activities

PERSONAL SKILLS

- Job-related skills
- Basic skills in DNA extraction, PCR, and Sequencing
 - Hands-on experience in Phytochemical Extraction and Analysis
 - Plant tissue culture
- Computational skills
- Basic programming and Bioinformatics skills:
- Programming: Basics of R programming, Python
 - Bioinformatics Tools: AutoDock, PyMol, sequence alignment using BLAST, handling of bioinformatics databases
- Computer-related skills
- Software: MS Word, Excel, PowerPoint, SPSS.

REFERENCE

- Academic
- Parash Mani Timilsina, PhD
- Associate Professor
 - Department of Biotechnology, Kathmandu University
 - Email: timipara@ku.edu.np
- Work-related
- Raju Panday, PhD
- Scientific Officer
 - National Forensic Science Laboratory, Khumaltar, Lalitpur
 - Email: raju.panday@hotmail.com

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