



Priti Regmi

DOB = 16th November 1988

Assistant Professor

Central Department of Biotechnology, Tribhuvan University, Nepal

Profile

Passionate educator and researcher specializing in yeast engineering, with a focus on:

- ✓ **Yeast genetic modification** for enhanced industrial & pharmaceutical traits.
- ✓ **Molecular docking** for antimalarial drug discovery using yeast model.
- ✓ Leading three active **research projects** and mentoring 5 Master's students.

Employment History

Assistant Professor at Tribhuvan University, Kathmandu, Nepal

July 2017 — present

Education

PhD in Molecular Bioscience, Goethe University, Frankfurt am Main

October 2019 — July 2023

Thesis entitled "Metabolic engineering of yeast for xylose utilization via the Weimberg pathway and for xylitol production"

Masters in Biotechnology, Tribhuvan University, Kathmandu, Nepal

April 2012 — December 2015

Thesis entitled "Enhancement of xylose transport in *Saccharomyces cerevisiae* by transformation of *GXF1*, a xylose transporter gene, from *Candida intermedia*"

Bachelors in Chemistry, Tribhuvan University, Pokhara, Nepal

July 2007 — July 2012

(Obtained highest female score among all the faculties in the campus)

Major publications :

- Regmi, P., Knesebeck, M., Boles, E., Weuster-Botz, D., & Oreb, M. (2024). A comparative analysis of NADPH supply strategies in *Saccharomyces cerevisiae*: Production of d-xylitol from d-xylose as a case study. *Metabolic engineering communications*, 19, e00245. **(Original Research article)**
- Regmi, P., & Bhattarai, T. (2025). Microbial Metabolic Engineering for Biopolymers Production. *Journal of Nepal Biotechnology Association*, 6(1), 55-65. **(Review article)**

References:

- Prof. Dr. Eckhard Boles from Goethe University, Frankfurt/M**
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- Dr. Mislav Oreb from Goethe University, Frankfurt/M**
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- Prof. Dr. Tribikram Bhattarai, Tribhuvan University, Nepal**
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Details

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Links

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Skills

Yeast engineering

Molecular Docking

Basic python programming

Languages

English - Fluent

German- Basic Knowledge

Nepali – Native Speaker

Hindi- Proficient

Ongoing project (International)

Principal Investigator:

UNESCO TWAS 2024 Research Award/ 24-283 RG/BIO/AS_I

Project Title: "Characterizing the Expression of *Plasmodium falciparum* Glucose Transport Protein in *Saccharomyces cerevisiae*: Advancing Antimalarial Research" (2024)

