



# Dr. Mukti Ram Paudel

Assistant Professor, Plant Biotechnology

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## Profile:

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## Research Areas:

Orchids: Diversity/Conservation  
Plant Tissue Culture  
Animal Cell Culture  
Genetic Homogeneity  
Natural Product Chemistry  
Biological Activity of Compounds

## Skills:

Data Analyst- SPSS, R

## Education

**Ph.D. in Botany (2019):** Central Department of Botany, Tribhuvan University

**M.Sc. in Botany (2008):** Central Department of Botany, Tribhuvan University

## Academic Appointment

**Assistant Professor (July 31, 2017):** Central Department of Botany, Tribhuvan University

## Supervision/Co-Supervision

Thesis / Dissertation	Supervision	Co-Supervision
Ph.D. Thesis		2
M.Sc. Dissertation	15	1

## Award

**Nepal Bidhya Bhusan (2023):** Ministry of Education, Science and Technology, Government of Nepal

**Young Scientist Award (2022):** Nepal Academy of Science and Technology, Government of Nepal

## Membership

**Life Member:** Botanical Society of Nepal, Kathmandu, Nepal

**Life Member:** Nepal Biotechnology Association, Kathmandu, Nepal

## Editorial

**Managing Editor:** Journal of Nepal Biotechnology Association

## Country Visited

India, Bangladesh, Taiwan

## Publication

### A. Journal Article (Total: 36)- Selected Three

1. Paudel M.R., Sharma S., Joshi P.R., Pant B., Wagner S.H., Gurung P., Pant K.K. & Pant B. 2025. Antioxidant and cytotoxic properties of protocorm-derived phenol-rich fractions of *Dendrobium amoenum*. *BMC Complementary Medicine and Therapies* 25: 61. DOI: 10.1186/s12906-025-04810-4
2. Dulal K., Ojha-Khatra S., Paudel H.R., Paudel M.R. 2025. In-vitro antioxidant and antidiabetic potential of *Ephedra gerardiana* stem extract. *Journal of Herbmed Pharmacology* 14: 259-264. DOI: 10.34172/jhp.2025.52549
3. Shah S., Paudel M.R., Thapa B.B., Sharma H., Kashyap A.K., Rekadwad B.N., Sharma R., Sharma J. & Pant B. 2025. Extract from endophytic *Fusarium* isolates stimulates seed germination of the host and protocorm development of non-host orchids. *Communicative & Integrative Biology* 18: 2439798. DOI: 10.1080/19420889.2024.2439798

### B. Book/Book Chapter (Total: 9)- Selected Three

1. Poudeyal M.R., Saud K., Paudel M.R. & Singh U.K. 2024. The Significance and Utilization of Pholidota Orchids in Medical Preparations. In: Husen A. & Pant M. (Eds.), *Exploring Medicinal Orchids*. CRC Press. DOI: 10.1201/b23375
2. Devkota H.P., Logesh R., Adhikari-Devkota A. & Paudel M.R. 2021. Orchids of Genus Bletilla: Traditional Uses, Phytochemistry, Bioactivities, and Commercial Importance. In: Merillon J.M. & Kodja H. (Eds.), *Orchids Phytochemistry, Biology and Horticulture*. Springer Nature, Switzerland. DOI: 10.1007/978-3-030-11257-8\_36-1
3. Paudel M.R., Bhattarai H.D. & Pant B. 2020. Traditionally Used Medicinal *Dendrobium*: A Promising Source of Active Anticancer Constituents. In: Merillon J.M. & Kodja H. (Eds.), *Orchids Phytochemistry, Biology and Horticulture*. Springer Nature, Switzerland. DOI: 10.1007/978-3-030-11257-8\_16-1

## Conference/Seminar

### National and International (Total: 13)- Recent Three

1. The 23<sup>rd</sup> World Orchid Conference, 24 – 28 February 2024, Tainan, Taiwan.
2. 4<sup>th</sup> International Conference on Biotechnology: Academica to Industry, 17 – 19 March 2023, Kathmandu, Nepal.
3. The Virtual 23<sup>rd</sup> World Orchid Conference, 23 – 26 April 2021, Taichung, Taiwan.

## Research Project

### Total: 8; Principal Investigator (3), Co-Investigator (5)- Selected Three

1. 2021 – Co-I, Collaborative research grant; *Title*: Isolation and characterization of novel anticancer compound(s) from in vitro developed protocorms of three *Dendrobium* species; *Funding Agency*: UGC (University Grants Commission), Nepal. *Grant amount*: NPR 20,00,000
2. 2019 – PI, Individual research grant; *Title*: Exploration of anticancer activity of *Dendrobium longicornu* by inducing cell cycle arrest and regulating key protein molecules; *Funding Agency*: IFS (International Foundation for Science), Sweden. *Grant amount*: USD 11,400
3. 2014 – PI, Individual research grant; *Title*: Micropropagation and Anticancer activities of in vitro callus and in vivo *Dendrobium longicornu*; *Funding Agency*: IFS (International Foundation for Science), Sweden. *Grant amount*: USD 10,700