

BISHNU MAYA K.C.

Curriculum Vitae

EDUCATION

- **PhD (Agricultural Biotechnology) Ongoing** (Thesis submitted to supervisor) - Department of Biotechnology, Kathmandu University, Dhulikhel Kavre, Nepal
- **MSc (Botany) - 2004:** Central Department of Botany, Tribhuvan University, Kathmandu, Nepal
- **BSc (Botany) – 2002:** Tribhuvan Multiple Campus, Palpa.
- **ISc (Biology Major) – 1998:** Tribhuvan Multiple Campus, Palpa.
- **SLC - 1994:** Shree Sarvajanic Secondary School, Chhatragunj, Arghakhanchi.

WORK EXPERIENCE

- **Lecturer:** Research Methodology (Undergraduate level) at Nepal Mega College, Babarmahal, Kathmandu [2016 to Present].
- **Lecturer:** Biology (Biodiversity) for BSc Biochemistry 6th Semester at Universal College, Maitidevi, Kathmandu [2006 to 2010].
- **Lecturer:** Biology (Botany) at Himalayan Whitehouse Int'l College, New Baneshwor, Kathmandu [2006 to 2014].
- **Lecturer:** Biology (Botany) at Madan Bhandari Memorial College, Binayak Nagar, Kathmandu [2008-2014].
- **Lecturer:** Biology (Botany) at Nepal Mega College, Babarmahal, Kathmandu [2011 to Present].

RESEARCH PUBLICATIONS

- KC BM, Gauchan DP, Khanal SN, Chimouriya S and Lamichhane J (2021). Amelioration of growth attributes of *Bambusa nutans* subsp. *cupulata* Stapleton by indole-3-acetic acid extracted from newly isolated *Bacillus mesonae* MN511751 from rhizosphere of *Bambusa tulda* Roxburgh. Biocatalysis and Agricultural Biotechnology, 31, 101920 doi.org/10.1016/j.bcab.2021.101920.
- KC BM, Gauchan DP, Khanal SN, Chimouriya S and Lamichhane J



PROFILE

Ms. Bishnu Maya K.C. born in Thulapokhara, Chhatradev- 6 Arghakhanchi, Nepal, received her **Master's Degree in Botany** with specialization in **Plant Systematics** in 2004. She has published many articles on Plant Systematics, Ethnobotany and Plant growth promoting rhizobacteria (PGPR) in Sci-Indexed and Peer Reviewed Journals, and one book of 'Advanced Biology'. Her research interest includes Organic farming, Soil Microbiology, Agricultural Molecular Biotechnology, Plant Growth Regulators, Plant Systematics and Conservation Biology.

CONTACT

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HOBBIES

Cooking

Travelling

Wildlife photography

(2020). Extraction of indole-3-acetic acid from plant growth promoting rhizobacteria of bamboo rhizosphere and its effect on biosynthesis of chlorophyll in bamboo seedlings. *Indian Journal of Agricultural Research*, 56(6):781-786, DOI: 10.18805/IJARE.A-5578.

- KC BM, Gauchan DP, Khanal SN and Lamichhane J (2020). Quantification of indole-3 acetic acid from *Bambusa tulda* Roxb. seedlings using high performance liquid chromatography. *African Journal of Biotechnology*, 19(10):771-788, DOI:10.5897/AJB2020.17238.
- KC BM (2005). Taxonomic study of Genus *Conyza* Less. of Nepal. *Botanica Orientalis Journal of Plant Science*, 5:1.
- Shrestha A, KC BM and Thapa CB (2004). Ethno-medicinal uses of plants among Kumal Community in Chirtungdhara VDC, Palpa, Nepal. *Botanica Orientalis Journal of Plant Science*, 4:1.
- KC BM and Chaudhary RP (2008). Utilization of wild edible plants by the people of Resunga forest area, Gulmi District, Nepal. *The Montage Annual Journal*, 1:1.

FINANCIAL ASSISTANCE FOR RESEARCH

- President Chure Tarai Madhesh Conservation and Development Board, Khumaltar, Lalitpur, Nepal for research in bamboo and soil microbiology in 2016-2018.
- Cornell Nepal Study Program, Kirtipur: For MSc Dissertation in 2004.
- Forum for Justice, Buddhanagar, Kathmandu: For MSc Dissertation in 2004.
- Ministry of Environment, Science and Technology, Government of Nepal: To conduct research on “Plant Resources, their use and Environmental justice: A case study of Arghakhanchi District” in 2007.
- Social Inclusion Research Fund Secretariat, SNV, Nepal: To conduct research on “Women’s Perception of Discrimination on Employment: A case study of Tamghas VDC, Gulmi District” in 2006.

AWARDED WITH

- Third Prize for poster competition, organized by Kathmandu University, Dhulikhel, Kavre on 7th International Science Conference from November 10th to 11th, 2017
- Third Prize for poster competition, organized by World Science Congress from April 22nd to 24th, 2017 at Jadavpur University, Kolkata, India
- Best Coordinator of plus two Science, 2015. On the occasion of 14th anniversary of Himalaya Whitehouse International College, New Baneshwor, Kathmandu, Nepal
- Best faculty of plus two Science, 2013. On the occasion of 12th anniversary of Himalaya Whitehouse international College, New Baneshwor, Kathmandu, Nepal

ORAL PRESENTATIONS

- KC BM, Gauchan DP, Khanal SN, and Lamichhane J (2020). Isolation and characterization of plant growth promoting rhizobacteria from bamboo rhizosphere and their role on plant growth promotion. Presented during the 2nd NRN Global Knowledge Convention, October 9th-11th, 2020.
- KC BM, Chimouriya S, Gauchan DP, Khanal SN and Lamichhane J (2019). Distribution, utilization, phytochemical screening and antibacterial activities of bamboo in Central Siwalik Region, Nepal. Presented in International Youth Conference on Science, Technology and Innovation held at hotel Radisson, October 21st-23rd, 2019.
- KC BM, Gauchan DP, Khanal SN, Chimouriya S, Bogati N, and Lamichhane J (2019). Isolation and characterization of multitraits rhizobacteria from bamboo rhizosphere. Presented in DNA Day Conference' during World DNA Day, held at Nepal Academy of Science and Technology (NAST), Khumaltar, Lalitpur, April 24th - 25th, 2019.

POSTER PRESENTATIONS

- KC BM, Gauchan DP, Khanal SN and Lamichhane J (2018). Initial growth analysis of *Bambusa balcooa* Roxb. growing in agroecosystem of Central Siwalik region. Presented at Kathmandu University, Dhulikhel, 2nd International Conference on Bioscience and Biotechnology from February 16th to 20th February, 2018.
- KC BM, Gauchan DP, Khanal SN and Lamichhane J (2017). Comparative study of growth performance of *Bambusa tulda* Roxb., *Bambusa nutans* subsp. *cupulata* Stapleton. and *Bambusa balcooa* Roxb. growing in agroecosystem of Eastern Chure, Nepal. Presented at Kathmandu University, Dhulikhel, Kavre on 7th International Science Conference from November 10th to 11th, 2017. Awarded Third Prize for poster competition.
- KC BM, Gauchan DP, Khanal SN and Lamichhane J (2017). Study of growth performance of *Bambusa tulda* Roxb. in agroecosystem and ravines area of Chure. Poster presented at Jadavpur University, Kolkata, India, organized by World Science Congress from April 22nd to 24th, 2017. Awarded Third Prize for poster competition.
- KC BM and Chaudhary RP (2005). Plant Resource Utilization and Environmental justice in Resunga, Gulmi District: A case study. Presented in Third Botanical Conference held on May 12th – 13th, 2005, Kathmandu, Nepal.

CONDUCTION OF TRAINING

- Provided training for local farmers' of Panchkhal Municipality, Kavre on **Quality production of organic crops: Soil management and use of organic pesticides, 2021**, under the programme of Government of Nepal Special Economic Zone (SEZ)
- Provided training for local community people, nurserymen and caretakers of Udayapur, Saptari, Siraha, Dhanusa, Mahottari, Sarlahi, and Sindhuli on **Bamboo Propagation and Management, 2018**, supported by President Chure Tarai Madhesh Conservation and Development Board, Khumaltar, Lalitpur and Department of Biotechnology, Kathmandu University Kavre, Nepal

PARTICIPATION

- Participated in 3-Day Training on Data Analysis Using ‘R’ Programming. Organized by Department of Computer Science and Engineering, Kathmandu University, Nepal, July 10th-12th, 2019.
- Participated in One-Day Training Program on Intellectual Property Rights and Research Ethics. Organized by Department of Environmental Science and Engineering, Kathmandu University, Nepal, June, 14th 2019.
- Participated in 'DNA Day Conference' during World DNA Day, held at Nepal Academy of Science and Technology (NAST), Khumaltar, Lalitpur, April 24th-25th, 2018.
- Participated in First Biotech Summer School on ‘Applied Molecular Biology’ at Tribhuvan University, April 6th-9th, 2017.
- Participated in Workshop on ‘Local Effects of Large-scale Global Changes: A Case study in the Himalayas, Nepal’, November 2nd-4th, 2006, Pokhara, Nepal organized by Tribhuvan University and University of Bergen, Norway.

RESEARCH ASSIGNMENT / REPORT SUBMITTED

- Plant resources, their use and environmental justice: A case study of Arghakhanchi District. Submitted to Ministry of Environment, Science and Technology, Sinha Darbar, Kathmandu, Nepal, 2007
- Women’s perception of discrimination on employment. A case study in Gulmi district. Submitted to SNV Nepal. Bakhundole, Lalitpur, 2006
- Utilization of plant resources and environmental justice in Resunga, Gulmi district: A case study. MSc Dissertation submitted to Central Department of Botany, Tribhuvan University, Kirtipur, Kathmandu, Nepal (Research Supervisor- Prof. Dr. Ram Prasad Chaudhary), 2005
- Hedge and shelter belt flora of Kirtipur. A mini-dissertation submitted to Central Department of Botany, Tribhuvan University,

Kathmandu, Nepal, 2004

- Agro-biodiversity in Dakshinkali Region. A field report. Submitted to Central Department of Botany, Kirtipur, Kathmandu, Nepal, 2004

REFEREES

1. Prof. Janardan Lamichhane, PhD

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2. Prof. Sanjay Nath Khanal, PhD

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Professor Emeritus

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

Mrs. Bishnu Maya K.C

