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| Professor and researcher with 20+ years of experience teaching courses in both undergraduate and postgraduate levels. Supervised 80 MSc theses and 8 Ph.D. dissertations. Wrote and co-authored three books on Orchid and Published over 100 articles in peer-reviewed journals. Date of Birth: 1965-09-17 Place and country of birth: Nepal |  |

Bijaya
Pant



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| Professional Review* More than 10 dozen of referred publications in National and International Journal
* Supervision of 80 M. Sc. & 8 Ph.D. dissertations in Central Department of Botany
* Reviewer of 5 Ph.D. dissertations in Central Department Botany and 7 Ph.D. dissertations from Aboard (India, Bangladesh, Taiwan)
* External Examiner of 4 Ph.D. Thesis (Bangladesh)
* Reviewer of more than 100 M.Sc. dissertations from Central Department of Botany, Central Department of Biotechnology, Central Department of Environmental Science, and Undergraduate thesis of affiliated campuses on Plant Biotechnology, KU.
* Chairperson of Scientific Committee of the International Conferences organized by CDB TU (2010), and Chairperson of Scientific Committee Nepal Biotechnology Association (2014, 2017) and many other scientific conference. Member of the Scientific Committee, World Orchid Conference, 2021 Taiwan.
* Reviewer of scientific papers in various prestigious journals and publishers
* Reviewer of project proposal and project reports from various organizations, viz; Ministry of Forest and Soil Conservation Government of Nepal, Ministry of science and technology Government of Nepal, Department of Plant Resources, Government of Nepal, Nepal Academy of Science and Technology, University Grant Commission, Nepal, Dean Office, Tribhuvan University.
* Key role on Orchid conservation Policy paper preparation in coordination with DPR, Government of Nepal,
* Member of the Orchid Seed Science And Sustainable Use (OSSSU), IUCN.
 |  | **Contact** |
|  | Kusunti, 13, Jwalakhel, Lalitpur, Kathmandu, Nepal  |
|  |  9841359626, 977 -1- 4331322 |
|  | bijayapant@gmail.comb.pant@cdbtu.edu.npbijaya.pant@cdb.tu.edu.np  |
|  | Pant’s Plant Biotech Lab |
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| Profile Links |
|  | [Google Scholar](https://scholar.google.com/citations?hl=en&user=ndZzF5IAAAAJ&view_op=list_works&alert_preview_top_rm=2&sortby=pubdate) |
|  | [Research Gate](https://www.researchgate.net/profile/Bijaya-Pant) |
|  | [ORCiD](https://orcid.org/0000-0001-5614-6031) |
|  | [Facebook](https://www.facebook.com/profile.php?id=100007262719253) |
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| Research Interests Plant Tissue Culture, Orchid Conservation,metabolite production in culture, Anticancer evaluation of metabolites, Molecular techniques |
| Citation statistics Google Scholar- Over 2000 citations, h-index 24 & i10 Index 51 |
| Languages Nepali, English, Japanese, Hindi |
| Hobbies Hiking, Sightseeing, Book reading, Poem writing, Gardening |

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| **Current Position/ Affiliations** |
| Since 2015 | **Professor** | Central Department of Botany, Tribhuvan University, Kirtipur, Kathmandu, Nepal |
| Since 2012 | **Director** | Annapurna Research Center, Maitighar, Kathmandu |

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| **Professional Career** |
| 2009–2015 | **Associate Professor** | Central Department of Botany, Tribhuvan University, Kirtipur, Kathmandu, Nepal |
| 2000–2009 | **Assistant Professor** | Central Department of Botany, Tribhuvan University, Kirtipur, Kathmandu, Nepal |
| 1997-2000 | **Lecturer** | Central Department of Botany, Tribhuvan University, Kirtipur, Kathmandu, Nepal |

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| **Education** |
| Department of Biotechnology, **Hiroshima University, Japan** | **Ph.D.** | Plant Tissue Culture and Molecular Biology | 1997 |
| Central Department of Botany, **Tribhuvan University, Nepal** | **M.Sc.** | Cytogenetics | 1992 |
| Tri-Chandra Multiple Campus, **Tribhuvan University, Nepal** | **B.Sc.** | Botany | 1988 |
| Amrit Science Campus, **Tribhuvan University, Nepal** | **I.Sc.** | Biological Sciences | 1985 |

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| **Ten Most Important Publications** |
| **1.** | **Pant, B.** (2013). Medicinal orchids and their uses: Tissue culture a potential alternative for conservation. *African Journal of plant science*, *7*(10), 448-467.  <https://doi.org/10.5897/AJPS2013.1031>  |
| **2.** | **Pant, B.,** & Raskoti, B. B. (2013). *Medicinal Orchids of Nepal*. Himalayan map house. |
| **3.** | **Pant, B.,** & Thapa, D. (2012). In vitro mass propagation of an epiphytic orchid, Dendrobium primulinum Lindl. through shoot tip culture. *African Journal of Biotechnology*, *11*(42), 9970-9974. <https://doi.org/10.5897/AJB11.3106>  |
| **4.** | Shah, S., Shrestha, R., Maharjan, S., Selosse, M. A., & **Pant, B.** (2019). Isolation and characterization of plant growth-promoting endophytic fungi from the roots of *Dendrobium moniliforme*. *Plants*, *8*(1), 5. <https://doi.org/10.3390/plants8010005>  |
| **5.** | **Pant, B.,** & Manandhar, S. (2007). *In vitro* propagation of carrot (Daucus carota) L. *Scientific world*, *5*(5), 51-53. <https://doi.org/10.3126/sw.v5i5.2656>  |
| **6.** | Paudel, Y. P., Pradhan, S., **Pant, B.,** & Prasad, B. N. (2012). Role of blue-green algae in rice productivity. *Agriculture and Biology Journal of North America*, *3*(8), 332-335. <https://doi.org/10.5251/abjna.2012.3.8.332.335>  |
| **7.** | Pradhan,S., Tiruwa B., Subedee,BR, **Pant, B**. (2014). *In vitro* germination and propagation of threatened medicinal orchid, *Cymbidium aloifolium* (L.) Sw. through artificial seed, *Asian Pacific Journal of Tropical Biomedicine* 4(12): 971-976.  |
| **8.** | Paudel, M. R., Chand, M. B., **Pant, B.,** & **Pant, B.** (2018). Antioxidant and cytotoxic activities of Dendrobium moniliforme extracts and the detection of related compounds by GC-MS. *BMC complementary and alternative medicine*, *18*(1), 1-9. <https://doi.org/10.1186/s12906-018-2197-6>  |
| **9.** | Nath, K., Kumar, S., Poudyal, R. S., Yang, Y. N., Timilsina, R., Park, Y. S., ... **Pant, B.** & Lee, C. H. (2014). Developmental stage-dependent differential gene expression of superoxide dismutase isoenzymes and their localization and physical interaction network in rice (Oryza sativa L.). *Genes & Genomics*, *36*(1), 45-55. <https://doi.org/10.1007/s13258-013-0138-9>  |
| **10.** | **Pant, B**., Y. Kato, T. Kumagai, T. Matsuoka and M. Sugiyama. 1997. Blepharismin producedby Protozoan *Blepharisma*,functions as an antibiotic effective against methicillin- resistant *Staphylococcus aureus*. *Federation of EuropeanMicrobiological Societies Letters*, 155:67-71.  |

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| **Awards and Distinctions** |
| **2019** | Nabil Science and Technology Awards | Nepal Academy of Science and Technology (NAST) |
| **2006** | Educational award | Ministry of Education, Government of Nepal |
| **2000** | Dipendra Young Scientist Award | Nepal Academy of Science and Technology (then Royal) |
| **2000** | Mahendra Vidhya Bhushan ‘A’ class | Government of Nepal  |
| **1996** | Soroptimist International of the Americas Scholarship Award | Soroptimist International of the Americas (Japan) |
| **1995-1997** | Rotary Yoneyama Memorial Foundation Award | Rotary Yoneyama Memorial Foundation (Japan) |
| **1982** | SLC Topper, Education Award | District Administration Office, Jhapa District |

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| **Grants and Projects** |
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| **2021-2024** | **PI** | Isolation and Characterization of Novel Anticancer Compound(s) from *in vitro* developed protocorms of three *Dendrobium* species. (Funded By UGC under the institutional Grant, Nepal). |
| **2020-2021** | **PI** | Conservation and Bio-perspective of Medicinal Orchid, *Vanda tessellata* (Roxb.) Hook. ex G. Don. |
| **2019-2020** | **PI** | Screening and cultivation of commercially important orchids of Nepal for integrated rural development |
| **2017-2019** | **PI** | Evaluation of anticancer properties of some medicinal orchids of Nepal and mass scale propagation of identified species by in vitro technologies |
| **2013-2014** | **PI** | Traded medicinal orchids of Nepal and their *In* *situ* and *Ex-situ* conservation employing people participation in some selected community forests of Nepal |
| **2011-2012** | **PI** | In vitro seed germination and seedling development of Cymbidium aloifolium (l.) Sw., a medicinally important orchid of Nepal |
| **2009-2011** | **PI** | Mass propagation and ex situ conservation of some threatened orchids of Nepal by tissue culture technique |
| **2008** | **PI** | Ex situ conservation and analysis of phytochemicals in some important medicinal plants by *in vitro* technology |
| **2006-2007** | **PI** | Conservation of some commercially important plants by in vitro technology |
| **2000-2001** | **PI** | Ex- situ conservation of some threatened orchids and medicinal plants of Nepal |
| **1998-2000** | **Co-PI** | *Ex- situ* Conservation of Endangered and Important Plants of Nepal by Tissue Culture Method |

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| **Services to the Profession** |
| **Editorial Board Member** |
| **Since 2020** | Editorial Committee of Annapurna Journal of Health Sciences |
| **Since 2019** | Editorial Committee of Nepal Journal of Science and Technology |
| **Since 2021** | Editor in Chief and Founding Member of Editorial Committee (2001) Nepal Journal of Biotechnology Association (JNBA)  |
| **Since 2010** | Editorial Committee of Botanical Orientalis, The Journal of Plant Sciences |
| **Advisory Boards/ Executive Committees** |
| **2017- 2021** | President, Rotary Yoneyama Scholar’s Association of Nepal |
| **Since 2021** | Vice President, Nepal Biotechnology Association |
| **Since 2020** | Board Member, Ethical Review Committee, Annapurna Neurological Institute |
| **2018** | Team Member: National science and technology policy refinement of system and planning. Ministry of education, science, and technology, Government of Nepal |
| **Since 2018** | Vice President, IUCN, Species Survival Commission, Nepal |
| **2017** | Board Member, Ayurveda and Complementary Medicine Committee, Health Research Council, Ministry of Health, Government of Nepal |
| **2015** | Member, National Biotechnology Advisory Committee, Ministry of Science, Technology, and Environment, Government of Nepal |
| **2010** | Member, Orchid Species Survival SU, IUCN |
| **2007** | Founding Member, Editorial Committee of Journal of Nepal Biotechnology Association |
| **2001** | Executive Member, Nepal Botanical Society |
|  | Member, Ecological Society of Nepal |
|  | Member, Heritage Himalaya, Nepal |
|  | Member, Japan University Student Association |
|  | Member, Japanese Society for Plant Cell and Molecular Biology |
|  | Member, Orchid Society of India |
|  | Member, Women Scientist Forum, Nepal (WSFN) |
| **Department and** **University Service** |
| **Since 2022****Since 2017** | Board Member of Research Committee, Institute of Science and Technology, Dean Office, Tribhuvan UniversityBoard Member of Research Committee, Research Center of Applied Science and Technology Research Committee, Tribhuvan University |
| **2015-2017** | Member, Faculty Board, Institute of Science and Technology Tribhuvan University |
|  **2015** | Board Member, Academic council, Dean office, Institute of Science and Technology Tribhuvan University, Kathmandu Nepal |
| **Since 2009** | Board Member, Botany Subject Committee Board, Tribhuvan University |
| **Since 2009** | Board Member, Botany Research Committee, Central Department of Botany Tribhuvan University |
| **Since 2007** | Program Coordinator, Plant Biotechnology and Biochemistry Unit, Central Department of Botany, TU, Nepal |
|  | **Since 2020** Member, Faculty, Selection Committee Mid Western University |
|  | **Since 2019,** Chairman, Subject committee, Bioinformatics, Biotechnology, and Molecular Biology, Pokhara University. |
| **Conferences presentation / Workshop Organization**

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| **Participation** | **Paper presentation** |
|  35 | 57  |
| 02 | 16 |
| 03 | 25 |
|  **Total 40** |  **98** |
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| **2023****2023****2023** | **“**Conservation of native orchids of Nepal by tissue culture and reintroduction” 7th International Orchid Workshop at 14-19 May 2023, Svachovka, Czech Republic.**“**Plant tissue culture from research to product development**”**. International conference on Biotechnology, ICB23- 2022, 17-19 March. 2023, Kathmandu.“Journey from Research to Industry” 11th Feb 2023, Webinar: Connecting Minds For Better future On the Occasion of International Day of Women and Girls in Science |
| **2023** | “Orchids: Wonders of Nature” 10th Feb 2023, Seminar: Orchid Floriculture Group, Organized by Annapurna Research Center. |
| **2023** | “Bridging a gap between academia and journalist “Nepal Forum of Science Journalists (NFSJ) 27 Jan 2023 (13 Magh, 2079), Friday. Greenwich Village Hotel, Sanepa, Lalitpur. |
| **2022** | “Reintroduction of tissue culture raised native orchids for Ex situ conservation & cultivation”. The 4rd International Orchid Symposium 19 Dec. 2022 Guangzhou, China (online) |
| **2022** | “Promotion of tissue culture from research to product development”. International conference on Biotechnology, ICBSN- 2022, 17-19 Dec. 2022, Kathmandu. |
| **2022** | **“**Application of Biotechnology on orchids for their sustainable utilisation” Resilient Solutions Conference and Expo Dec. 5-7, 2022 – ICIMOD, Kathmandu, Nepal |
| **2022** | “Orchids: Multipurpose wonders of plant kingdom and our conservation efforts”. The sixth international Fascination of Plants Day” (FoPD 2022) on 19th May 2022 Organized by Amity Institute of Microbial Technology, Amity University Uttar Pradesh Noida. |
| **2022** | l6;' sNr/ k|ljlwaf6 ;'gfv/L pTkfbg tyf Joj;foLs/0f ;Defjgf Tissue Culture Prabhidhi bata Sunakhari Utpadan tatha Byabasaikaran. Training on flower production and commercial development, Organised by Flower development Center Godawari, June 3rd and 7th, Lalitpur. 2022. |
| **2022** | “Plant Hormones”. Virtual training workshop on forest conservation and management. Organized by Forest Research and Training Center Mar 15th, 2022 |
| **2022** | “Why and how research to Industry”. World DNA Day April 25, 2022, NAST. |
| **2022** | *“Ex situ* conservation of native Orchids through in vitro culture and reintroduction” International Orchid Conference organized by The Orchid Society of India (TOSI). Dr Y S R Horticultural University, Venkata Ramannagudem- West Godavari, Andhra Pradesh, Mar. 25-27, 2022. |
| **2021** | Evaluation: Assessment & Alignment: Workshop on Teaching Pedagogy and Research Techniques 22-24 Mangsir, 2078 (8-10 December 2021) Jointly Organized by Institute of Science and Technology, Tribhuvan University & Kathmandu Center for Research and Education (KCRE), CAS-TU, Kathmandu, Nepal, Sauraha, Chitwan. |
| **2021** | “My Experience on Research to Industry”. Two days Virtual Workshop on “Women in Science” Status, Challenges, Opportunities and Innovations. Organized by Nepal German Academic Association (NEGAAS), November 13-14, 2021 |
| **2021** | **“Contribution of Cytogenetics in Plant and Cancer Research**” Keynote lecture on Shekh Shamimul Alam memorial lecture, Organized by Chromosome Research Center, University of Dhaka, Nov 11, 2021. |
| **2021** | Webinar on Scope and Importance of Bioinformatics Organized by **Pokhara University Faculty of Science and Technology** Chairperson, Bioinformatics, Biotechnology and Molecular Biology Subject Committee, PU, **July 22, 2021.** |
| **2021** | National Youth Conference on Science, Technology, Innovation and Entrepreneurship 2021 Programme Schedule Ashadh 26-27/ July 10- 11). Chairperson of the session on STI Entrepreneurship. Organized by National Youth Council. |
| **2021** | Orchid Conservation Symposium June 22 – 23 June, 2021 (Virtual Symposium Funded by Australian Government wildlife and habitat bushfire recovery programme. |
| **2021** | Myths & Reality on Publications Annapurna, Hospital, June 22nd 2021 AANI. |
| **2021** | Why are Orchids important for conservation? Their role in biodiversity maintenance and in the economy". (Science for Society, Monthly Webinar, Organized by Kathmandu University), 13th June 2021. |
| **2021** | *Ex situ* Conservation of *Bulbophyllum leopardinum*, a threatened medicinal orchid of Nepal (Project budding) Taichung, Taiwan (Invited speaker) April 24-27, World Orchid Conference, 2021 Taiwan. (Virtual conference) |
| **2021** | Conservation and Utilization of Medicinal Orchids through Research and Outreach Programme World Orchid Conference, Taichung, Taiwan (Invited speaker) April 24-27, World Orchid Conference, 2021 Taiwan (Virtual conference) |
| **2021** | **“Challenges facing in orchid conservation”** Stakeholder Workshop |
| **2021** | International Conference by Biotechnology Society of Nepal (ICBSN 2021) 13th Feb, 2021 Session Chair)  |
| **2019** | Coordinator. One day workshop on Medicinal orchids and their importance, November 27, 2019, Organized by Central Department of Botany at CDB, TU  |
| **2019** | Coordinator: (Three days’ workshops). A workshop on Scientific Literature review, Academic writing, and Research Methodology. Three days’ workshops, Organized by the Central Department of Botany. Nov 24-26, 2019. at CDB, TU. |
| **2017** | South Asian Biotechnology Conference March 16-18, Kathmandu, Nepal |
| **2017** | International Conference on Biodiversity, Climate Change Assessment and Impacts on Livelihood from January 10-12, 2017. (Organizer: Central Department of Botany (Central Department of Botany) (TU), Nepal, Agriculture and Forestry University (AFU), Nepal, City University of New York) |
| **2014** | National Workshop of on "The Importance of Research in Medicinal Orchid: Conservation and its Linkages with Local Livelihoods" June 9, 2014, Kathmandu (Programme Coordinator) |
| **2014** | National Conference on Biotechnology 2014: Plant Biotechnology for Economic Development, November, 22-23, 2014, Kathmandu (Organizer: Nepal Biotechnology Association, NBA) |
| **2014** | Coordinator. "Research Status for Orchids for Conservation and Management" National Workshop on NTFP/MAPs Sector Action Plan Development July 9, 2014 (Ashad 25, 2070). Organized by DPR CDB/TU Joint workshop on medicinal plants., Hotel Himalaya Kathmandu. |
| **2014** | Coordinator: National workshop on "The Importance of Research in Medicinal Orchid Conservation and its Linkages with Local Livelihoods" Organized by Central Department of Botany TU, June 9, 2014 (Jestha 26, 2071), supported by MSFP, Nepal. |
| **2010** | International Conference on Biodiversity, Livelihood and Climate change in the Himalayas, December, 12-14, 2010, Kathmandu. (Organizer: Central Department of Botany, TU) |
| **2008** | Coordinator: Training workshop on "Research Methodology in Natural Sciences” organized by Central Department of Botany, Tribhuvan University, supported by University Grant Commission (UGC), Central Department of Botany, Kirtipur, Nepal, September 16-23, 2008. |
| **2000** | International Conference on Biotechnology and Biodiversity Kathmandu, Nepal, Nov. 14-16, (2000). (Organizer: Nepal Biotechnology Association (NBA) |
| **Presentations** |
| **Invited Keynote Lectures** |
| Mar 30th, 2021 | Illegal trade and sustainable use of wild medicinal orchids in Nepal 30th March, 2021, Kathmandu, Nepal (Key note speaker). |
| Nov 11, 2021 | Contribution of Cytogenetics in Plant and Cancer Research” Keynote lecture on Shekh Shamimul Alam memorial lecture, Organized by Chromosome Research Center, University of Dhaka. |
| Apr 13-18, 2015  | Medicinal Orchids of Nepal: Their ex-situ and *in situ* conservation practice in some selected community forests of Nepal. International Conference on Temperate Orchids – Research and Conservation (TORC’ 15) Samos Island, Greece. |
| Apr 24-27, 2021 | Conservation and Utilization of Medicinal Orchids through Research and Outreach Programme World Orchid Conference, Taichung, Taiwan, World Orchid Conference, Taiwan |
| **Invited Speaker** |
| Dec. 17-19, 2022 | “Promotion of tissue culture from research to product development”. International conference on Biotechnology, ICBSN- 2022, 17-19 Dec. 2022, Kathmandu. |
| Dec. 15-18, 2022 | “Reintroduction of tissue culture raised native orchids for Ex situ conservation & cultivation”. The 4th International Orchid Symposium 2022, Guangzhou, China |
| Dec. 5-7, 2022 | **“**Application of Biotechnology on orchids for their sustainable utilisation” Resilient Solutions Conference and Expo Dec. 5-7, 2022 – ICIMOD, Kathmandu, Nepal - Kathmandu, Nepal  |
| May19th, 2022 | “Orchids: Multipurpose wonders of plant kingdom and our conservation efforts”. The sixth International Fascination of Plants Day” (FoPD 2022). Organized by Amity Institute of Microbial Technology, Amity University Uttar Pradesh Noida. |
| Mar. 25-27, 2022 | *“Ex situ* conservation of native Orchids through in vitro culture and reintroduction” International orchid conference organized by The Orchid Society of India, Dr Y S R Horticultural University, Venkataramannagudem- West Godavari, Andhra Pradesh. |
| Apr. 24-27, 2021 | Ex-situ Conservation of Bulbophyllum leopardinum, a threatened medicinal orchid of Nepal (Project budding) Taichung, Taiwan, World Orchid Conference, Taiwan. |
| Mar. 29-31, 2016 | Use of in vitro culture strategies in the development of plants and plant products. The Seventh National Conference on Science and Technology, Kathmandu, Nepal (Invited Speaker). |
| Jul. 5-6, 2015 | Application of various in vitro culture techniques in some medicinal plants of Nepal. National Biotechnology Workshop, organized by Nepal Agriculture Research Council, Khumaltar, Lalitpur. |
| Feb. 12-14, 2015 | Development of various in vitro culture techniques in different medicinal plants of Nepal. First South Asian Biotechnology Conference, South Asian University New Delhi India.  |
| Nov. 22-23, 2014 | Tissue culture in medicinal plants for conservation and commercialization. First National conference on Biotechnology, NTNC, Kathmandu, Nepal |
| Sep. 4-7, 2014 | Tissue Culture a potential alternative for the production of phytochemicals. First Kathmandu Autumn School on Chemistry and Chemical Technologies. |
| Jul. 9, 2014  | Research Status for Orchids for Conservation and Management. National Workshop on NTFP/MAPs Sector Action Plan Development. Organized by DPR CDB/TU Joint workshop on medicinal plants., Hotel Himalaya Kathmandu. |
| Jun. 11-12, 2013 | Biotechnology work at Central Department of Botany, TU, Kirtipur, achievements, and constraints. National Biotechnology Interaction workshop, NARC, Khumaltar, Lalitpur. |
| Feb. 2-11, 2013 | Ex-situ conservation of Medicinal Orchids of Nepal. The 11th Asia Pacific Orchid Conference and 27th Okinawa Orchid show, Okinawa, Japan.  |
| Dec. 15 -18, 2012 | Production phytochemicals in culture some medicinal plants of Nepal. International Conference on Infectious Diseases and Nanomedicine (ISIDN), Kathmandu, Nepal. |
| Sep. 25-27, 2012 | Ex-situ conservation of medicinal plants. National Conference of Science and technology, Kathmandu. (with Sanu Devi Joshi).  |
| Nov. 13-16, 2011 | Orchids of Nepal with medicinal values and their conservation by in vitro techniques. 20th World Orchid Conference, Singapore.  |
| Dec. 3-5, 2010 | In vitro synthesis of active components in some medicinal plants of Nepal'. Sixth International Conference on Plant Tissue Culture and Biotechnology, Organized by Bangladesh Association of Plant Tissue culture and Biotechnology. Dhaka, Bangladesh.  |
| Jun. 27-28, 2010  | Tissue culture research in Central Department of Botany. Biotechnology symposium. Organized by Biotechnology Unit, Nepal Agriculture Research council, NARI (NARC), Khumaltar, Lalitpur  |
| Mar. 19-24th 2010 | Conservation of threatened medicinal orchids by tissue culture technique. 10th Asia-Pacific Orchid Conference and the 20th China Orchid Show, Chongqing, China. (with D. R. Koirala. S. Pradhan J. Pathak and S. Shrestha).  |
| Jan.16-18, 2009 | Conservation of some threatened medicinal orchids of Nepal by tissue culture technique. Fourth International Botanical Conference, Dhaka, Bangladesh. (with D. R. Koirala. S. Pradhan J. Pathak and S. Shrestha).  |
| Apr. 10-12, 2008 | In vitro seed germination and propagation of some Cymbidium species of Nepal. National conference on Orchids: science and society and orchid show organized by **The Orchid Society** of India jointly with Department of Botany, Bangalore University, Bangalore and the orchid society of Karnataka, Bangalore, India. |
| Apr. 22-23, 2007 | Why cell culture in medicinal plants? National Seminar on sustainable use of biological resources – Medicinal & Aromatic plants, Pokhara, Nepal. |
| Mar. 16-19, 2007 | Current status and ex situ conservation of threatened orchid of Nepal. 9th Asia Pacific Orchid Conference Go Yang City, Seoul, Korea. |
| Mar. 18-20, 2006 | Micropropagation of two highly collected orchid species *Cymbidium iridoids* D. Don. and *Aerides odorata* Lour. 8th National Seminar on orchid conservation and commercialization and orchid show. Organized by Orchid society of India and Panjab University, Chandigarh India. (with Sangeeta Swar and Rajdeep Gurung). |
| Mar. 1- 10, 2002 | Current status of Nepalese orchids. Seminar on: Save the Orchids of the world, Mukaishima, Hiroshima, Japan. |
| Mar. 15-17, 2001 | Nepalese orchids: Setting priorities for conservation. 7thAsia Pacific Orchid Conference (APOC7), Nagaya, Japan. (with R. P. Chaudhary, A. Subedi, and L. R. Shakya).  |
| Oct. 3-7, 1999 | Current status of tissue culture in Nepal. A country paper presented in 2nd International workshop on tissue culture of economic plants, Dhaka, Bangladesh. (With Sanu Devi Joshi).  |
| May 29 – Apr. 6, 1999 | Introducing Modern Biotechnology for the Conservation and Propagation of Nepalese Orchids. Proceedings of the International Orchid Wave in Simanam, Japan. An International Orchid Conference on “Conservation and Propagation of Endangered Wild Orchids of the World”. (with Ram Prasad Chaudhary, Lokesh R. Shakya).  |
| **Invited Policy Presentations (Selected)** |
| May 11th, 2022 | International Collaborative Seminar (Resource person) |
| May 6th, 2022 | Interaction programme on “Tertiary Education Post COVID-19: Trends, Challenges and Opportunities for Regional Cooperation” on 6th May 2022 (23 Baisakh 2078. organized by Dean Office, IOST, CDP, TU  |
| Jan, 2022 | Panellist on: Our Science and Technology Policy**: “Where we stand and where we go”** Jointly organized by Women Scientist Forum, Nepal (WSFN) and NAST |
| Dec 29, 2021 | नेपाली प्राज्ञहरू सँग अनुसन्धानको आचारसंहिता सम्बन्धी संवाद" organized by Policy Research Institute 29 December 2021  |
| **Conferences and Seminar Presentations (Selected)** |
| Jan 27, 2023 | “Bridging a gap between academia and journalist “Nepal Forum of Science Journalists (NFSJ) 27 Jan 2023 (13 Magh, 2079), Friday. Greenwich Village Hotel, Sanepa, Lalitpur. |
| Dec 17-19, 2022 | “Promotion of tissue culture from research to product development”. International conference on Biotechnology, ICBSN- 2022, 17-19 Dec. 2022, Kathmandu. |
| Dec 19, 2022 | “Reintroduction of tissue culture raised native orchids for Ex situ conservation & cultivation”. The 4rd International Orchid Symposium 19 Dec. Guangzhou, China (online) |
|  | Evaluation: Assessment & Alignment: Workshop on Teaching Pedagogy and Research Techniques; Jointly Organized by Institute of Science and Technology, Tribhuvan University & Kathmandu Center for Research and Education (KCRE), CAS-TU, Kathmandu, Nepal, Sauraha, Chitwan. |
| Nov. 13-14, 2021  | My Experience on Research to Industry”. Two days Virtual Workshop on “Women in Science” Status, Challenges, Opportunities, and Innovations. Organized by Nepal German Academic Association (NEGAAS),  |
| Jul. 22, 2021 | Session Chair on Webinar on Scope and Importance of Bioinformatics Organized by Pokhara University Faculty of Science and Technology Chairperson, Bioinformatics, Biotechnology and Molecular Biology Subject Committee, PU. |
| Jul. 10- 11, 2021. | Session Chair on National Youth Conference on Science, Technology, Innovation, and Entrepreneurship 2021 Chairperson of the session on STI Entrepreneurship. Organized by National Youth Council.  |
| Jun. 22 – 23 Jun. 2021 | Orchid Conservation Symposium (Virtual Symposium Funded by Australian Government wildlife and habitat bushfire recovery program. |
| Jun. 22, 2021  | Myths & Reality on Publications: Annapurna, Hospital. |
| Jun. 14, 2021 | Cultivation of orchids to beatify Lalitpur Municipality, Mayer’s office  |
| Jun. 13, 2021 | Why are Orchids important for conservation? Their role in biodiversity maintenance and the economy". (Science for Society, Monthly Webinar, Organized by Kathmandu University). |
| Mar. 30, 2021, | “Challenges facing in orchid conservation” Stakeholder Workshop Illegal trade and sustainable use of wild medicinal orchids in Nepal, Kathmandu, Nepal (Keynote speaker). |
| Feb. 13, 2021 | International Conference by Biotechnology Society of Nepal (ICBSN 2021) (Session Chair)  |
| Sep. 27, 2020 | *In vitro*technology for medicinal plants, their products, and beyond. Organized by 1st NRN Asia Pacific Knowledge Convention: Applied Science and Biotechnology. |
| Oct. 9-11, 2020 | Panelist in: “Research, Innovation, and Commercialization” 2nd NRN Global Knowledge Convention. Diaspora for Innovation and Prosperity in Nepal: Post COVID-19 Scenario. Online Event. |
| Jun. 5, 2020 | *Ex-situ* conservación: a potential means for Environmental management. Webinar, World environment day-2020. Talk/Discussion. Organized by Biodiversity and Environment Management, CDB TU. |
|  Nov. 27, 2019 | Evaluation of anticancer properties of some medicinal orchids of Nepal, mass-scale propagation of identified species for commercial cultivation. *In* on workshop, Medicinal Orchids and Their Values: One Day Workshop on Orchids, CDB, TU. |
| May 28 - Jun. 1, 2019  | Medicinal Orchids of Nepal: Efforts for conservation, challenges, and prospects. 7th International Orchid Conservation Congress at Royal Botanic Gardens, Kew United Kingdom, London |
| Mar. 14, 2019 | The national workshop in on “Science Technology and Innovation” policy. Organized by the ministry of Science Technology and Education. National Trust for Nature Conservation, Kumaltar, Lalitpur. |
| Feb. 14-16, 2019 | “Medicinal orchids of Nepal, prospects and their conservation strategies” International conference on Medicinal Aromatic and Nutraceutical Plants from Mountainous Areas" at Dehradun, Uttarakhand, India. Organized by American Council for Medicinally Active Plants, Graphic Era University. |
| Jun. 23, 2018 | Thesis and report writing, Workshop on Teaching and Research Methodologies. RECAST, Kathmandu |
| Apr. 24, 2018 | Tissue culture technology for the enhancement of plants and plant products. DNA Day Nepal Academy of Science and Technology. |
| Mar. 7-9, 2018 | Various culture techniques for mass propagation of medicinal orchids of Nepal. The 3rd International Orchid Symposium (IOS2018), Seoul Korea. |
| Nov. 22- 24, 2017 | In vitro technology for medicinal plants, their products, and beyond. International Symposium on Food Security and Sustainable Development 2017(ISFS2017), Industrial University of Ho Chi Minh City, Ho Chi Minh City, Vietnam. |
| Sep. 12, 2017 | Prospects of Biological teaching in high school in Nepal organized by Ministry of Science and Technology, NAST, Kathmandu. |
| Jul. 24, 2017 | Research methodology about Plant Biotechnology: Workshop on Teaching and Research Methodologies for newly appointed lecturer, Jointly Organized by the Institute of Science and Technology, TU, & RECAST. |
| 2017 | In vitro technology for the production of plants and plant products Short Course on Natural Products, Identification, Characterization, and Utilization, Memorial Building, Tribhuvan University, Kathmandu. Organized by RECAST |
| Mar. 16-18, 2017 | Tissue culture technology for the enhancement of plants and plant products. South Asian Biotechnology Conference, Kathmandu, Nepal |
| Jan. 10-12, 2017 | Orchids: Important Components of Biodiversity & Livelihood & Their Conservation Practice in Some Community Forests of Nepal International Conference on Biodiversity Climate change and Livelihood, Kathmandu, Nepal (with S Pradhan, MR Poudel and MB Chand) |
| Dec. 3-5, 2016 | Plant Tissue Culture: Totipotency, research, development and beyond 8th International Conference on Plant Tissue Culture&Biotechnology, Dhaka. |
| Aug. 12, 2014 | Artificial seed technology: An innovative approach to propagate Orchids on a mass scale. International Association of Plant Biotechnology (IAPB) Congress, Melbourne, Australia |
| Jul. 14-15, 2014 | *In situ* conservation of orchids in community forests. Plants and you Project: Jointly organized by MSFP Nepal and Royal Botanical Garden Kew, Hotel Himalaya Kathmandu Nepal. |
| Jun. 9, 2014 | Traded medicinal orchids and their *Ex-situ* and *In situ* conservation employing people participation in two CFU of Nepal" paper presented in the national workshop on "The Importance of Research in Medicinal Orchid Conservation and its Linkages with Local Livelihoods" Organised by Central Department of Botany TU, supported by MSFP, Nepal. (Programme Coordinator) |
| May 17,2014, | "Ex-situ conservation of Medicinal Orchids of Nepal” DPR Thapathali |
| Apr. 9, 2014 | *Ex-situ* conservation and production of phytochemicals in some medicinal plants of Nepal. Paper presented as a monthly guest speaker Department of Life Sciences, University of North Texas, USA.  |
| Sep. 25-27, 2012 | Effects of different media on in vitro regeneration of medicinally important orchid Cymbidium aloifolium (L). Sw. National Conference of Science and technology, Kathmandu. (with Tripti Regmi G. Parmar, S. Pradhan) |
| Sep. 25-27, 2012 | *In vitro* micropropagation of rare orchid Esmeralda clarkei Rchb. f. through protocorm and shoot tip explants. National Kathmandu. Conference of Science and technology. (Mukti Ram Poudel, S. Pradhan) |
| Sep. 25-27, 2012 | Production and germination of artificial seeds of Cymbidium aloifolium (L). Sw. National Conference of Science and technology, Kathmandu. (with Shreeti Pradhan, B. Tiruwa B. Subedi) |
| Dec. 12-14, 2010 | Biotechnological solution for global warming. International Conference on Biodiversity, Livelihood and Climate change in the Himalayas, Kathmandu. |
| Jun. 27-28, 2010 | Therapeutic importance of *Withania somnifera* (L.) Biotechnology symposium 2010. Organized by Biotechnology Unit, Nepal Agriculture Research council, NARI (NARC), Khumaltar, Lalitpur. (with Sudip Paudel) |
| Jun. 27-28, 2010 | Studies on asymbiotic seed germination and rapid propagation of *Dendrobium densiflorum. Lindl.* Biotechnology symposium 2010. Organized by Biotechnology Unit, Nepal Agriculture Research council, NARI (NARC), Khumaltar, Lalitpur. (with Shreeti Pradhan) |
| Sept. 02,2009. | Tissue culture research on some orchids and medicinal plants of Nepal. Paper presented at Department of Chemistry and Biochemistry University of Massachusetts; North Dartmouth, MA 02747, Boston USA. (with D. R. Koirala, S. Pradhan, J. Pathak and S. Shrestha) |
| Nov. 10-12, 2008 | Micropropagation of terrestrial orchid *Phaius tancarvailleae* (L’Her.) Blume. The Fifth National Conference on Science and Technology. Organized by Nepal Academy of Science and Technology. (with Sumitra Shrestha) |
| Nov. 10-12, 2008 | *Ex-situ* conservation of *Dendrobium densiflorum* Lindl. by tissue culture technique. The Fifth National Conference on Science and Technology. Organized by Nepal Academy of Science and Technology. (with Shreeti Pradhan) |
| Sep. 16-23, 2008 | Research Methodology in Biotechnology.Training workshop on "Research Methodology in Natural Sciences" organized by Central Department of Botany, Tribhuvan University, supported by University Grant Commission (UGC), Central Department of Botany, Kirtipur, Nepal. |
| Aug. 18, 2006 | Researches in Central Department of Botany, Tribhuvan University. A one-day workshop on current activities and future perspectives of research in Botany. Organized by Central Botany of Botany. (with Suresh Kumar Ghimire) |
| Aug. 2006 | Curriculum on M.Sc. Biotechnology (Plant Biotechnology). A one-day workshop on M. Sc. Biotechnology Curriculum organized by dean office, Institute of Science and Technology, TU Kathmandu. (with S.D Joshi) |
| May 12-13, 2005 | Tissue culture research on some medicinal plants of Nepal*.* Third National Botanical Conference & 14th Annual General Meeting. (with S.D Joshi) |
| Apr. 24- May 5, 2005 | Tissue Culture research on Central Department of Botany. “Plant Genomics 2005: Regulation of Gene Expression”- A training cum workshop organized by National Center for Plant Genome Research (NCPGR), Department of Biotechnology, Ministry of Science and Technology, Government of India. |
| Mar. 23-26, 2004 | Micropropagation of *Cymbidium iridioides* (D. Don) 4thNational Conference on Science and Technology (NAST). (with Sangeeta Swar) |
| Mar. 23-26, 2004 | Cytological effects of insecticide Metasystox on root meristematic cells of *Allium cepa.* 4thNational Conference on Science and Technology (NAST). (with Shyam Shrestha) |
| Mar. 23-26, 2004 | Micropropagation and comparative study of chemical components of essential oils of *In vitro* and *In vivo* grown plants of *Mentha spicata* L. 4thNational Conference on Science and Technology (NAST). (Babu Ram Paudel) |
| Mar. 23-26, 2004 | Biotechnology Education in Nepal. 4th National Conference on Science and Technology (NAST). (with Sanu Devi Joshi) |
| Feb. 13-14,2004 | Biotechnology in orchid conservation. National Seminar on Natural Resource Management, Biratnagar.  |
| Apr. 18- 22, 2003 | Germination of *Arundina graminifolia* (D. Don) Hochr. in central Nepal: The 4th Indian Subcontinent Regional Orchid Specialist Group Meeting and Orchid Show, Pokhara, Nepal. (with Sabala Subedi, Abishkar Subedi) |
| Apr. 18- 22, 2003 | Orchid biotechnology in Nepal: The 4th Indian Subcontinent Regional Orchid Specialist Group Meeting and Orchid Show, Pokhara, Nepal.  |
| Feb. 26-28 2003 | *In vitro* study of *Capsicum annum* var. grossum International Conference on HimalayanBiodiversity, Kathmandu, Nepal. (with Aruna Karanjeet and Sanu Devi Joshi.) |
|  Mar. 6- 10, 2002 | Himalayan orchids: Setting priorities for conservation. International seminar on mountains, Kathmandu, Nepal. (with R. P. Chaudhary, A. Subedi, L. R. Shakya. Nepalese) |
| Nov. 14-16, 2000 | *In vitro* study of *Foeniculum vulgare*. International conference on biotechnology and biodiversity. (with Sumitra Ranjeet and Sanu Devi Joshi) |
| Nov. 14-16, 2000 | Shoot primordial method, effective technology of tissue culture for mass propagation. International conference on biotechnology and biodiversity, Kathmandu, Nepal. |
| Mar. 8-11, 1999 | Different methods of micropropagation and its importance in medicinal plants. Third National Conference on Science and Technology, Kathmandu, Nepal. (with Sanu Devi Joshi) |
| Dec. 20, 1998 | Micropropagation of plants through different methods. 3rd annual meeting of Nepal Biotechnology Association, Kathmandu, Nepal. |
| Nov. 1-3, 1998 | Antibacterial activity of a photoreceptor pigment, blepharismin. International conference on environment and agriculture, Kathmandu, Nepal. |
| Jul. 1998 | Application of plant tissue culture. Workshop cum orientation program on biotechnology and biochemistry: Central Department of Botany Tribhuvan University. |
| Nov. 1996 | The anti-MRSA activity of a photoreceptor pigment blepharismin in an arbekacin-resistant MRSA.: 6th Annual Meeting of Drug-Resistant bacteria in Hiroshima, Japan (with Yoji Kato, Takanori Kumagai, and Masanori Sugiyama) |
| Sep. 1996 | Blepharismin, a photoreceptor pigment from Blepharisma enhances the antibacterial activity of arbekacin in MRSA. Annual meeting of the Society for Fermentation and Bioengineering, Nagoya, Japan (with Yoji Kato, Takanori Kumagai, Tatsuomi Matsuoka, and Masanori Sugiyama) |
| Sep. 1995 | Induction and rapid propagation of shoot primordial of Mentha arvensis L. var. piperascens by shoot tip culture. The 42nd Annual Meeting of the Japanese Society of Pharmacognosy, Fukuyama, Japan. (with Mareshige Kohjyouma, Satoshi Nakajima, Makoto Ozaki, and Hiroshi Kohda) |

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| **Prof. Dr. Bijaya Pant-** **List of Publications** Updated- June, 2023  |
| 1. **Referred Journals**
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| **114****113****112****111****110****109** | Pradhan, S., Paudel, Y. P., Qin, W., & **Pant, B.** (2023). Genetic fidelity assessment of wild and tissue cultured regenerants of a threatened orchid, Cymbidium aloifolium using molecular markers. *Plant Gene*, *34*, 100418.Pandey, S., Maharjan, L., & Pant, B. (2023). In vitro Propagation and Assessment of Genetic Homogeneity using RAPD and ISSR Markers in Tinospora cordifolia (Wild.) Hook. F. & Thoms, An Important Medicinal Plant of Nepal. *Journal of Nepal Biotechnology Association*, *4*(1), 27–36. https://doi.org/10.3126/jnba.v4i1.53443Chand, K., Shah, S., & Pant, B. (2023). Growth Promoting Effect of Endophytic Bacteria Bacillus subtilis From Leaves of Vanda cristata and Its Potential Impact on In vitro Growth of Orchid. *Journal of Nepal Biotechnology Association*, *4*(1), 8–16. https://doi.org/10.3126/jnba.v4i1.53441Joshi, P. R., Joshi, S., Paudel, M. R., & Pant, B. (2022). Screening of In vitro α-amylase Inhibitory Activity of Wild Orchids of Nepal. *Journal of Nepal Biotechnology Association*, *4*(1), 1–7. https://doi.org/10.3126/jnba.v4i1.53439Pokharel, B.R., Pandey, S., Manandhar, M.D., Pant B. (2023). *.* Comparative study of essential oil in wild and in vitro cultures of *Valeriana jatamansi* Jones in Nepal. *Plant Biotechnol Rep* (2023). https://doi.org/10.1007/s11816-023-00832-xThapa, C. B., Bhattarai, H. D., Pant, K. K., and Pant, B. (2023). [In vitro Induction and Proliferation of Callus in Piper longum L. through Leaf Culture](https://www.nepjol.info/index.php/NJST/article/view/49892) Nepal Journal of science and technology. <https://www.nepjol.info/index.php/>  |
| **108** | Joshi, P. R., Pandey, S., Maharjan, L., and **Pant, B**. (2022). Micropropagation and assessment of genetic stability of Dendrobium transparens Wall. Ex. Lindl. using RAPD and ISSR markers. Front. Conserv. Sci. 3:1083933, doi:10.3389/focaccia.2022.1083933 [https://www.frontiersin.org/articles/10.3389/fcosc.2022.1083933/full](https://www.frontiersin.org/articles/10.3389/fcosc.2022.1083933/full%22%20%5Ct%20%22_blank) |
| **107** | Thapa, C. B., Bhattarai, H. D., Pant, K. K., Joshi, P. R. J, Chaudhary, T. L., and **Pant, B.** (2023). Antioxidant, antibacterial, and cytotoxic effect of in vitro callus and in vivo rhizome of Paris polyphylla Sm. Process Biochemistry 124:33–43, Available online 16 November 2022, https://doi.org/10.1016/j.procbio.2022.11.005 |
| **106** | Dhungana, S., Pradhan, S., Paudel, M. R., and Pant, B (2022). In vitro Propagation and Genetic Homogeneity Assessment of Dendrobium crepidatum Lindley & Paxton. Plant Tissue Cult. & Biotech. 32(1): 1-11, dpi: <https://doi.org/10.3329/ptcb.v32i1.60467>. |
| **105** | Shah, S., Shah, B., Sharma, Rekadwad B., Shouche, YS, SharmaJ*.,* and **Pant, B.** (2022)*.* Colonization with non-mycorrhizal culturable endophytic fungi enhances orchid growth and indole acetic acid production. *BMC Microbiol* **22,**101 (2022). https://doi.org/10.1186/s12866-022-02507-z |
| **104** | Thapa, C. B., Paudel M. R., Bhattarai H. D., Pant, K. K., Devkota, H. P., Adhikari Y. P. and **Pant, B.** (2022) . Bioactive secondary metabolites in Paris polyphylla Sm. and their biological activities: A review. HELIYON, https://doi.org/10.1016/j.heliyon.2022.e08982 |
| **103** | Pandey, S., Sundararajan, S., Ramalingam, S., & **Pant, B.** (2022). Elicitation and plant growth hormone-mediated adventitious root cultures for enhanced valepotriates accumulation in commercially important medicinal plant *Valeriana jatamansi* Jones. *Acta Physiologiae Plantarum*, *44*(1), 1-13.<https://link.springer.com/article/10.1007/s11738-021-03319-w> |
| **102** | Devkota H.P., Adhikari-Devkota A., Logesh R., Belwal T., Pant B. (2021) Orchids of Genus Vanda: Traditional Uses, Phytochemistry, Bioactivities, and Commercial Importance. In: Merillon JM., Kodja H. (eds) Orchids Phytochemistry, Biology and Horticulture. Reference Series in Phytochemistry. Springer, Cham. <https://doi.org/10.1007/978-3-030-11257-8_37-1>  |
| **101** | Prasad, R. D., Pradan, S., Poudel, M. R., & **Pant, B.** (2021). Non-symbiotic Seed Germination and In vitro Plant Development of *Pholidota articulata*. *Nepalese Horticulture*, *15*, 44-51.<https://www.nepjol.info/index.php/nh/article/view/36648> |
| **100** | **Pant, B.,** Chand, K., Paudel, M.R. *et al.* (2021). Micropropagation, the antioxidant and anticancer activity of pineapple orchid: *Dendrobium densiflorum* Lindl. *J. Plant Biochem. Biotechnol.* <https://doi.org/10.1007/s13562-021-00692-y>  |
| **99** | Assessment of genetic stability of micropropagated plants of Rhynchostylis retusa (L.) using RAPD markers (2021). BK Oliya, K Chand, LS Thakuri, MK Baniya, AK Sah, **B Pant** Scientia Horticulturae 281, 110008.<https://doi.org/10.1016/j.scienta.2021.110008>  |
| **98** | Malla, B B Malla, Paudel M. R, **Pant B.** (2020). *In vitro*propagation of *Vanda tessellata*(Roxb.) Hook. ex G. Don from seed-derived protocorms. Botanica Orientalis – Journal of Plant Science: 14–20 |
| **97** | **Pant, B.,** Paudel, M. R., & Joshi, P. R. (2021). Orchids as Potential Sources of Anticancer Agents: Our Experience. *Annapurna Journal of Health Sciences*, *1*(1), 42-51. <https://www.ajhs.org.np/ajhs/index.php/ajhs/article/view/17> |
| **96** | Raskoti B.B., Kurzweil H., **Pant B**, Teoh E. S., Ale R., Amatya G. and Bussmann R. W. (2021). *Satyrium nepalense* D. Don. *Satyrium nepalense* var. *ciliatum* (Lindl.) Hook. f. Orchidaceae. In: Kunwar R.M., Sher H., Bussmann R.W. (eds) Ethnobotany of the Himalayas. Ethnobotany of Mountain Regions. Springer, Cham. <https://doi.org/10.1007/978-3-030-45597-2_216>  |
| **95** | Shah, S., Chand, K., Rekadwad, B., Shouche, Y. S., Sharma, J., & **Pant, B.** (2021). A prospectus of plant growth promoting endophytic bacterium from orchid (Vanda cristata). *BMC biotechnology*, *21*(1), 1-9. <https://doi.org/10.1186/s12896-021-00676-9>  |
| **94** | **Pant, B.,** Joshi, P. R., Maharjan, S., Thakuri, L. S., Pradhan, S., Shah, S., ... & **Pant, B.** (2021). Comparative Cytotoxic Activity of Wild Harvested Stems and In Vitro-Raised Protocorms of Dendrobium chryseum Rolfe in Human Cervical Carcinoma and Glioblastoma Cell Lines. *Advances in pharmacological and pharmaceutical sciences*, *2021*.<https://www.hindawi.com/journals/aps/2021/8839728/> |
| **93** | Paudel, M. R., Joshi, P. R., Chand, K., Sah, A. K., Acharya, S., **Pant, B.**,& **Pant, B.** (2020). Antioxidant, anticancer, and antimicrobial effects of in vitro developed protocorms of Dendrobium longicornu. Biotechnology Reports, 28, e00527. <https://doi.org/10.1016/j.btre.2020.e00527>  |
| **92** |  Pandey, S., & **Pant, B.** (2020). Establishment of in vitro cultures of valuable medicinal plant Valeriana jatamansi jones, its conservation and production of bioactive metabolites. <http://www.envirobiotechjournals.com/EEC/Vol26OctSuppl20/EEC-6.pdf>  |
| **91** | Pandey, S., Sundararajan, S., Ramalingam, S., Baniya, K., & **Pant, B.** (2020). Rapid clonal propagation and valepotriates accumulation in cultures of Valeriana jatamansi Jones, a high-value medicinal plant.  <https://doi.org/10.5073/JABFQ.2020.093.022>  |
| **90** | Pandey, S., Sundararajan, S., Ramalingam, S., & **Pant, B.** (2020). Effects of sodium nitroprusside and growth regulators on the callus, multiple shoot induction, and tissue browning in commercially important Valeriana jatamansi Jones. Plant Cell, Tissue and Organ Culture (PCTOC), 1-8. <https://doi.org/10.1007/s11240-020-01890-7>  |
| **89** | Thapa, B. B., Thakuri, L. S., Joshi, P. R., Chand, K., Rajbahak, S., Sah, A. K., ... & **Pant, B.** (2020). Ex-situ conservation and cytotoxic activity assessment of native medicinal orchids: *Coelogyne stricta*. *Journal of Plant Biotechnology*, *47*(4), 330-336.<http://www.kspbtjpb.org/journal/view.html?uid=2145&&vmd=Full> |
| **88** | Maharjan, S., Thapa, BB, Pradhan, S, Pant, Pant, Krishna, Joshi,GP, Thakuri LS, Pant B. In vitro propagation of the endangered orchid, *Dendrobium chryseum* Rolfe. from protocorms, Nepal Journal of Science and Technology (NJST, 2020). <https://www.nepjol.info/index.php/NJST/article/view/29737>  |
| **87** | Paudel, M. R., Bhattarai, H. D., & **Pant, B.** (2020). Traditionally used medicinal Dendrobium: a promising source of active anti-cancer constituents. *Orchids Phytochemistry, Biology and Horticulture: Fundamentals and Applications*, 1-26.<https://link.springer.com/content/pdf/10.1007/978-3-030-11257-8_16-1.pdf> |
| **86** | Joshi PR, Paudel MR, Chand MB, Pradhan S, Pant KK, Joshi GP, Bohara M, Wagner SH, Pant B and **Pant B**. (2020). Cytotoxic effect of selected wild orchids on two different human cancer cell lines. Heliyon 6 (2020) e03991 <https://doi.org/10.1016/j.heliyon.2020.e03991>  |
| **85** | Chand K, Shah S, Sharma J, Paudel MR, **Pant B (**2020). Isolation, characterization, and plant growth-promoting activities of endophytic fungi from a wild orchid *Vanda cristata*. *Plant Signaling and Behaviour*, March 2020 ISSN: (Print) 1559-2324 <https://doi.org/10.1080/15592324.2020.1744294>  |
| **84** | **Pant, B (**2020). Biotechnology for Plant Conservation. *In* Plant Diversity in Nepal, 2020, 237-251Eds.: M. Siwakoti, P.K. Jha, S. Rajbhandary, S.K. Rai Publisher: Botanical Society of Nepal, Kathmandu. |
| **83** | Adhikari, H., & **Pant, B.** (2019). In vitro seed germination and seedling growth of the orchid Dendrobium primulinum Lindl. *African Journal of Plant Science*, *13*(12), 324-331.<https://academicjournals.org/journal/AJPS/article-abstract/454CC4862580> |
| **82** | Chhetri, T. K., Subedee, B. R., & **Pant, B.** (2019). Isolation, identification, and production of encapsulated *Bradyrhizobium japonicum* and study on their viability. *Nepal Journal of Biotechnology*, *7*(1), 39-49.<https://www.nepjol.info/index.php/NJB/article/view/26950> |
| **81** | Neupane Pradeep, B.Pandey, S. Tripathi, and B. Pant. (2020) Micropropagation of *Papilionanthe teres* (Roxb.) Schltr. by seed and shoot tip culture. *Research Journal of Biotechnology* 15 (2): pp 1-8 |
| **80****79** | Shah S, Thapa BB, Pradhan S, Singh A, Verma A, Pant B.(2019). Piriformospora indica promotes the growth of the in-vitro raised Cymbidium aloifoliumplantlet and their acclimatization. Plant Signal Behav. 2019;14:6Paudel, M. R., Chand, M. B., Pant, B.,& **Pant, B.** (2019). Assessment of antioxidant and cytotoxic activities of extracts of *Dendrobium crepidatum*. *Biomolecules*, *9*(9), 478. <https://www.mdpi.com/533024> |
| **78** | Maharjan S., Pradhan S., Thapa B. & B., **Pant, B.** (2019). In vitro propagation of endangered orchid, *Vanda pumila* Hook. f. through protocorms. Culture. American Journal of Plant Sciences, 10: 1220-1232 <http://www.scirp.org/journal/ajps> |
| **77** | Shah, S., Shrestha, R., Maharjan, S., Selosse, M. A., & **Pant, B.** (2019). Isolation and characterization of plant growth-promoting endophytic fungi from the roots of Dendrobium moniliforme. Plants, 8(1), 5.<https://www.mdpi.com/387128> |
| **76** | Shah S., Pant B., Sharma R., Shouche Y.S., Sharma J. (2019). Coniochaeta dendrobiicola Sujit Shah. Persoonia. 42: 402–403. doi: [10.3767/persoonia.2019.42.11](https://dx.doi.org/10.3767/persoonia.2019.42.11%22%20%5Ct%20%22_blank) |
| **75** | Shrestha, R., Shah, S., & **Pant, B**. (2018). Identification of endophytic fungi from roots of two Dendrobium species and evaluation of their antibacterial property. *African Journal of Microbiology Research*, *12*(29), 697-704. <https://doi.org/10.5897/AJMR2018.8924>  |
| **74** | Paudel, M. R., Rajbanshi, N., Sah, A. K., Acharya, S., & **Pant, B.** (2018). Antibacterial activity of selected Dendrobium species against clinically isolated multiple drug resistant bacteria. *African Journal of Microbiology Research*, *12*(18), 426-432. <https://academicjournals.org/journal/AJMR/article-abstract/96DFD0557175> |
| **73** | Paudel, M. R., & **Pant, B.** (2017). Cytotoxic activity of crude extracts of Dendrobium amoenum and detection of bioactive compounds by GC-MS. *Botanica Orientalis: Journal of Plant Science*, *11*, 38-42. <https://www.nepjol.info/index.php/BOTOR/article/view/21030> |
| **72** | Paudel, M. R., Chand, M. B., Pant, B.,& **Pant, B.** (2018). Antioxidant and cytotoxic activities of Dendrobium moniliforme extracts and the detection of related compounds by GC-MS. *BMC complementary and alternative medicine*, *18*(1), 1-9. <https://link.springer.com/article/10.1186/s12906-018-2197-6> |
| **71** | **Pant, B.,** Shah, S., Shrestha, R., Pandey, S., & Joshi, P. R. (2017). An overview on orchid endophytes. *Mycorrhiza-nutrient uptake, biocontrol, ecorestoration*, 503-524. <https://link.springer.com/chapter/10.1007/978-3-319-68867-1_26> |
| **70** | Regmi, T., Pradhan, S., & **Pant, B.** (2017). In vitro mass propagation of an epiphytic orchid, Cymbidium aloifolium (L.) Sw., through protocorm culture. *Biotechnology Journal International*, 1-6. <http://www.journalbji.com/index.php/BJI/article/view/2005> |
| **69** | Paudel, M. R., Chand, M. B., Pant, B**.,** & **Pant, B.** (2017). Cytotoxic activity of antioxidant-riched *Dendrobium longicornu. Pharmacognosy Journal,*9(4). <http://www.phcogj.com/article/350> |
| **68** | Pradhan, S., Regmi, T., Ranjit, M., & **Pant, B.** (2016). Production of virus-free orchid Cymbidium aloifolium (L.) Sw. by various tissue culture techniques. *Heliyon*, *2*(10), e00176. <https://www.sciencedirect.com/science/article/pii/S240584401630929X> |
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| **Services to the Society** |
| **2023****2022****2021** | Organized training program at Annapurna Research Center for the cultivation of native orchids raised by tissue culture technique in Annapurna Research Center, to the local orchid growers for the conservation and promotion of Native orchid species. February, 2023Organized training program at Lumbini for the cultivation of native orchids raised by tissue culture technique in Annapurna Research Center, at the premises Mayadevi temple premises. Jointly organized the cultivation program with Lumbini Development Trust for reintroduction of 1000 seedlings of native orchids, July, 2022. The Programme was supported by WWF, Neapl.Organized training program at Lalitpur municipality for the cultivation of native orchids raised by tissue culture technique in Annapurna Research Center, at the premises Lalitpur municipality. Jointly organized the cultivation program for reintroduction of 1000 seedlings of native orchids, August 2021. |
| **2018** | Mass production of virus-free Large Cardamom seedlings by tissue culture technique provided the seedlings to the farmers at Ilam and conducted cultivation training. Under the project “Linking research and international marketing for high-value cardamom trade”. |
| **2014-2016** | Conducted the social awareness program on Orchid conservation in two community forests of Central Nepal, Karunabhumi Community forest (Daman) and Chandragiri community forest, Chitlang for two years. Organized Orientation program in both community forest User’s Group (CFUGs) for orchid conservation (2014). Organized training program for interested local people of Chitlang for commercial orchid cultivation by in site visit of orchid farms. Some of the local peoples are engaged in the cultivation of tissue culture-raised medicinal orchids (since 2015). The program was conducted under the project: “Traded medicinal orchids of Nepal and their *In situ* and *Ex-situ* conservation employing people participating in some selected community forests of Nepal Project Supported by MSFP, Government of Nepal”. |
| **2017** | Engaged in germplasm conservation of rare, threatened and endangered plant species of national heritage, such as medicinal and horticulaturlly importnat plant species. She was engaged in mass production of virus-free Large Cardamom seedlings by tissue culture technique and provided the seedlings to the farmers in eastern Nepal, and conducted cultivation training. It was conducted in 2017 under the project “Linking research and international marketing for high-value cardamom trade. |
| **Since 2013** | Engaged in ex situ conservation of native orchid species in ARC. (50 germplasm) has been conserved to date and will continue for more species. |
| **Since 2013** | Established a regular Science talk program “Bigyan Chautary, completed 15th series from ARC. |
| **Since 2013** | Promoting, regular training & internship to undergraduate students, medical students, entrepreneurs, on Molecular technique, cancer research, cell culture technique, plant tissue culture techniques, cultivation of tissue culture raised plants, and so on from ARC. |
| **Since 2012** | Promoting the commercialization of tissue culture-raised plants from Annapurna Research Center (ARC), as a Research Director. |

**Appointments:**

1. Editorial Board Member Annapurna Journal of Health Sciences, since 2021
2. Member: Faculty, Selection committee Mid-Western University, 2022
3. Research committee Member: Institute of Science and Technology, Dean Office Tribhuvan University, 2022
4. Board member, Plant quarantine section, Ministry of Agriculture and livestock, Government of Nepal, 2022.
5. Chairperson, Management committee of Science and technology, Nepal Academy of Science and Technology, Provience 7, far west region., 2022
6. Fellow: The World Academy of Sciences (TWAS), 11th November, 2022