

Curriculum Vitae

Rinchen Yangzom
Head/ Curator
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National Herbarium
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WORK EXPERIENCE:

2010 – till date:

Currently, I am working as the Curator of the National Herbarium at the National Biodiversity Centre under the Ministry of Agriculture and Forests (MoAF), Thimphu, Bhutan.

My experiences include botanical explorations and assessments of the flowering plants from subtropical forest types in the Himalaya plains (100m) to Alpine meadows (5000m). During my tenure as the curator, I have specialized in Himalayan Alpine Plant particularly, I work with *Mecconopsis* complex (Papavaraceae) and *Pedicularis* complex (Orobanchaceae). In addition, I study major invasive plants species to understand their impacts on farming, forestry and environmental systems in Bhutan.

Research grants received

1. 2019-2023: Bhutan for Life project through funding support from Green Climate Fund (GCF) with an objective to improve management of key high biodiversity and climate resilience value habitats and their connectivity.
2. 2015-2017: High Altitude Northern Areas (HANAs) of Bhutan project for botanical explorations and taxonomic studies through funding support from Global Environmental facility (GEF) and facilitated by Bhutan Trust Fund for Environmental Conservation.
3. 2015-2017: Comprehensive assessment of invasive species and develop recommendations for their management through funding support from EU-Global Climate Change Alliance (EU-GCCA).
4. 2014-2015: Red listing of endemic plants in Bhutan using IUCN criteria and categories facilitated by Biodiversity Network Japan through funding support from Toyota Motors and technical support from IUCN.
5. 2012-2015: Endemic plant diversity assessments in Bhutan Himalaya for conservation planning and prioritization of species through funding support from Bhutan Trust Fund for Environmental Conservation.
6. 2008-2009: Study of invasive plants in Bhutan: Educating and creating awareness about the invasive plants and their impacts on biodiversity through workshops and trainings with funding support under the framework of the Program for South-south Cooperation between Benin, Bhutan and Costa Rica.

July 2009 – October 2009:

Intern at the Blossy laboratory - Invasive plant ecology and management program, Department of Natural resources, Cornell University, Ithaca, New York, USA for four months, under the guidance

of Dr. Bernd Blossey. I got an opportunity to explore in the world of plant invasion and gained much knowledge and experiences in the fields of natural resource management.

November 2009 – April 2010:

Researcher at the Blossey laboratory. For Master thesis, I studied the ecological impacts of plant invasion on the process of litter decomposition with the title “Leaf litter decomposition as mediated by isopods in terrestrial and aquatic systems: effects of litter quality traits, litter diversity and plant origin” under the supervisions of Dr. Bernd Blossey, Cornell university, Ithaca, USA and Dr. Elmar Veneendaal, Wageningen university, the Netherlands.

January 2005 – August 2008:

Assistant Curator of the National Herbarium at the National Biodiversity Center under the Ministry of Agriculture and Forests (MoAF), Thimphu, Bhutan.

June 2004 – Dec 2004:

Attached with the Forest Protection and Enforcement Division, Department of Forest and Park Services, Ministry of Agriculture and Forests.

EDUCATION:

MSc. Forest and Nature Conservation, Wageningen University, the Netherlands with specialization in Ecology (2008 -2010).

BSc. Forestry, Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Himachal Pradesh, India (2000-2004).

PUBLICATIONS:

Books & Book Chapters

1. Long L., Yangzom R., Schmidt J., Hartmann M., Dorji K., Lehnert L., Opgenoorth L., Kluge J., Koch T. and Miede G. (2018): Is there a particular need to study altitudinal diversity in the Eastern Himalaya of Bhutan? A report on a Bhutanese-European biogeography cooperative venture. - in: Hartmann, Barclay & Weipert (Eds): Biodiversität und Naturlandschaft im Himalaya VI (Biodiversity and Natural Heritage of the Himalaya VI). Natural History Museum. Erfurt: 35-58. ISBN: 978-3-00-059576-9
2. Yangzom, R. (2018). A pictorial guide to alpine plants of Bhutan Himalaya. National Biodiversity Centre, Ministry of Agriculture and Forests. Thimphu, Bhutan. ISBN: 978-99936-987-5-3.
3. Yangzom R., Dorji K., Dorji R., Dorji T., Wangmo C., and Gyelsthen C. (2018). A pictorial guide to major invasive plants species of Bhutan. National Biodiversity Centre, Ministry of Agriculture and Forests. Thimphu, Bhutan. ISBN: 978-99936-987-4-6
4. Yangzom, R. & Long, David (2015). Plants Endemic to Bhutan Himalaya. *National Biodiversity Center, Kuensel press*, Thimphu, Bhutan. ISBN: 978-99936-763-5-5

Journal Papers

1. Tsukasa Iwashina, Yoshinori Murai, Kazutaka Yokoyama, Choki Wangmo, Kencho Dorji, Choki Gyeltshen, Rinchen Yangzom, Takayuki Mizuno, Hari Prasad Devkota (2019). Anthocyanins and flavonols from the blue flowers of six *Meconopsis* species in Bhutan. *Biochemical Systematic and Ecology*. Volume 86, 2019, 103925, ISSN 0305-1978, <https://doi.org/10.1016/j.bse.2019.103925>. (IF- 0.931).
2. Yokoyama K., Yangzom R., Mizuno T., Murai Y., Dorji K., Wangmo C., Gyeltshen C., and Iwashina T. (2018). Flavonol glycosides in the flowers of the Himalayan *Meconopsis paniculata* and *Meconopsis integrifolia* as yellow pigments. *Biochemical Systematic and Ecology*. 81. 102-104. ISSN 0305-1978 <https://doi.org/10.1016/j.bse.2018.10.006> (IF- 0.931).
3. Iwashina, Tsukasa; Yangzom, Rinchen; Murai, Yoshinori; Dorji, Kencho; Mizuno, Takayuki; Wangmo, Choki; (2018). Anthocyanins from the Red Flowers of *Meconopsis wallichi* in Bhutan. *Natural Product Communications*. 13. PP. ISSN 1934-578X <https://doi.org/10.1177/1934578X1801300322> (IF 0.809).
4. Yangzom R, Jenna Wong L, Pagad S (2018). Global Register of Introduced and Invasive Species- Bhutan. Version 1.2. Invasive Species Specialist Group ISSG. Checklist dataset <https://doi.org/10.15468/joixmc> accessed via GBIF.org on 2019-04-10.
5. Kluge, Jürgen; Worm, Sebastian; Lange, Simon; Long, David; Böhner, Jürgen; Yangzom, Rinchen; Miehe, Georg; (2017). Elevational seed plants richness patterns in Bhutan, Eastern Himalaya. *Journal of Biogeography*. 44. 1711-1722. ISSN 1365-2699 <https://doi.org/10.1111/jbi.12955> (IF- 4.248).
6. Murai, Yoshinori; Yangzom, Rinchen; Gyeltshen, Choki; Dorji, Kencho; Wangmo, Choki; Iwashina, Tsukasa; (2017). Flowers Pigments of Black Pea *Thermopsis barbata*. *Bulletin of the National Museum of Nature and Science. Series B, Botany*. 43. 87-91. ISSN: 18819060 <https://iss.ndl.go.jp/books/R000000004-I028596328-00>
7. Yoshida, T & Yangzom, R & Newman, Mark. (2017). *Roscoea megalantha* (Zingiberaceae), a new species from eastern Bhutan and India. *Edinburgh Journal of Botany*. 74. 1-9. 10.1017/S0960428617000142. ISSN: 0960-4286 (Print), 1474-0036 (Online) <http://doi:10.1017/S0960428617000142>
8. Yoshida, T., Yangzom, R. & Long, D (2017). Dancing butterflies of the East Himalayas: New *Meconopsis* Species from East Bhutan, Arunachal Pradesh and South-Tibet. *SIBBALDLA: The Journal of Botanic Garden Horticulture*. 69-96. ISSN: 2513-9231
9. Yoshida, T., Yangzom, R. & Long, D (2016). A new species of *Meconopsis*. *The Plantsman – New series volume 15 part 3, September 2016*, pp. 177-181. Royal Horticultural Society. ISSN 1352-4186

LANGUAGES:

Have good command over English and Dzongkha (Bhutanese National Language) in listening, speaking, writing and reading. Able to communicate in Hindi and Nepali.