

CURRICULUM VITAE

RAGHUVAR TIWARY, M.Sc. Botany (NET-LS, Dec 2011. AIR- 42)(GATE LS AIR -68)

Father's Name: Late Shambhoo Nath Tiwary

Date of Birth: 30-10-1985

Sex : Male

Nationality : Indian

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Educational Qualifications

SL NO	DEGREE	YEAR	SUBJECTS	BOARD/INSTITUTE	PERCENTAGE OF MARKS
1.	Ph.D. Botany	2020	Botany	North Eastern Hill University, Meghalaya	NA
	Master of Science (M.Sc.)	2011	Botany	North Eastern Hill University, Meghalaya	(69.60%)
2.	Bachelor of Science (B.Sc.)	2008	Botany (Hons), Zoology & Chemistry	St. Edmund's College, Shillong (Affiliated to North Eastern Hill University)	(75.75%)
3.	Higher secondary	2005	Biology, Physics, Chemistry, English & Physical Education	Army School, Ranchi Appeared as private candidate (Affiliated to Central Board of Secondary Education)	(60.60%)
4.	Matriculation	2001	Math, Science, English, Hindi, Social Studies	Army School, Ranchi (Affiliated to Central Board of Secondary Education)	(69.60%)

Masters' Dissertation:

Status of hetero-zygosity of secondary metabolite gene in Darjeeling and Assam tea clones as determined by Denaturing Gradient Gel Electrophoresis.

Ph. D. Thesis:

Morphometric, genetic and phytochemical variabilities among natural populations of *Aconitum* species across environmental gradients in North-eastern India.

Research Experience

Sl. No	Name of the Research Project & funding agency	Position held	From (date)	To (date)
1.	“UGC, Government of India funded Biopark under the innovative Programme " North-East India Centre of Diversities"	Junior Research Fellow	10-12-2011	31/03/2012
2.	Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools sponsored by DBT, Government of India	Junior Research Fellow	11-06-2012	13/03/2015
3.	Preventing extinction and improving conservation status of threatened plants through application of biotechnological tools sponsored by DBT, Government of India	Senior Research Fellow	14/03/2015	22/03/2018
4.	"Chemical Ecology of the North East Region (NER) of India: A collaborative Programme Linking NER and Bangalore Researchers", sponsored by DBT, Government of India	Extended SRF	28/07/2019	30/01/2021
5.	"Cumulative Impact of Cascading Intervention in Himalayan Rivers (Ci2HR)" funded by National Mission on Himalayan Studies, MoEF&CC, Government of India	Research Associate (post doctoral)	01-02-2021	CONTINUING

Research Articles

Singh, P.P., Behera, M.D., Rai, R., Shankar, U., Upadhaya, K., Nonghuloo, I.M., Mir, A.H., Barua, S., Naseem, M., Srivastava, P.K. and **Tiwary, R.**, 2023. Morpho-physiological and demographic responses of three threatened Ilex species to changing climate aligned with species distribution models in future climate scenarios. *Environmental Monitoring and Assessment*, 195(1), p.139.

Tiwary, R., Singh, H., Adhikari, D., Singh, P. P., & Barik, S. K. (2020). Discovery of *Aconitum haridasanii* (Ranunculaceae), a new species from Arunachal Pradesh, India. *Phytotaxa*, 440(3), 232-238.

Suchiang, B. R., Nonghuloo, I. M., Kharbhih, S., Singh, P. P., **Tiwary, R.**, Adhikari, D., ... & Barik, S. K. (2020). Tree diversity and community composition in sacred forests are superior than the other community forests in a human-dominated landscape of Meghalaya. *Tropical Ecology*, 61, 84-105.

Adhikari, D., **Tiwary, R.**, Singh, P. P., Upadhaya, K., Singh, B., Haridasan, K. E., ... & Barik, S. K. (2019). Ecological niche modeling as a cumulative environmental impact assessment tool for biodiversity assessment and conservation planning: A case study of critically endangered plant *Lagerstroemia minuticarpa* in the Indian Eastern Himalaya. *Journal of environmental management*, 243, 299-307.

Tiwary, R., Singh, H., Adhikari, D., Singh, P. P., & Barik, S. K. (2019). A new species of *Aconitum* (Ranunculaceae) from Eastern Himalaya. *Phytotaxa*, 413(1), 54-60.

Barik, S. K., Rao, B. R. P., Haridasan, K., Adhikari, D., Singh, P. P., & **Tiwary, R.** (2018). Classifying threatened species of India using IUCN criteria. *CURRENT SCIENCE*, 114(3), 588-595.

Barik, S. K., Tiwari, O. N., Adhikari, D., Singh, P. P., **Tiwary, R.**, & Barua, S. (2018). Geographic distribution pattern of threatened plants of India and steps taken for their conservation. *CURRENT SCIENCE*, 114(3), 470-503

Adhikari, D., Reshi, Z., Datta, B. K., Samant, S. S., Chettri, A., Upadhaya, K., Shah, M. A., Singh P.P., **Tiwary, R.**, Majumdar, K., Pradhan, A. (2018). Inventory and characterization of new populations through ecological niche modelling improve threat assessment. *CURRENT SCIENCE*, 114(3), 519-531.

Adhikari, D., **Tiwary, R.**, & Barik, S. K. (2015). Modelling hotspots for invasive alien plants in India. *PloS one*, 10(7), e0134665.

Book Chapters

Padhee, S.K., Chembolu, V., Akkimi, A., Nandi, K.K., Dutta, S., Adhikari, D., **Tiwary, R.**, Singh, B. and Barik, S.K., 2022. Holistic Environmental Flow Assessment by Building Block Method in Inaccessible Himalayan River Basins. In *Recent Trends in River Corridor Management: Select Proceedings of RCRM 2021* (pp. 49-67). Singapore: Springer Nature Singapore.

Adhikari, D., **Tiwary, R.**, Singh, P. P., Suchiang, B. R., Nonghuloo, I. M., & Barik, S. K. (2020). Trees, Shrubs and Herbs for Slope Stabilization in Landslide Prone Areas of Eastern Himalaya. *Nature-based Solutions for Resilient Ecosystems and Societies*, 307-326.

Barik, S.K., Singh, P.P., Adhikari, D. and **Tiwary, R.** 2016. Status and strategies for conservation of threatened plants in North-Eastern India. In: Das, A.P. (ed.). *Plant biodiversity conservation of northeastern India* pp. 999-1025. (In Press).

Adhikari, D., Singh, P.P., **Tiwary, R.**, and Barik, S.K. 2018. Modelling the environmental niche and potential distributional area of *Magnolia campbellii* Hook.f. & Thompson for its conservation in the Indian Eastern Himalaya. In: *Plant for Commercial Value*. Write & Print Publication, New Delhi pp 79-88.

Technical Reports

Perspective plan for development of Tawang river basin: Cumulative Impact Assessment of Proposed Hydel Power Projects, Determination of Basin Carrying Capacity, and Landscape Level Biodiversity Management Plan. Submitted to Government of Arunachal Pradesh. (Co-author)
Full report available at www.moef.nic.in/sites/default/files/TAWANG-REPORT-JUNE-2015.pdf

Presentations, Seminars and Conferences

Date/Duration	Venue	Remark	Title
12 th Dec 2014	JNU New Delhi	Oral presentation (International Conference)	Habitat distribution modeling and population status of a threatened medicinal plant of Himalayas, <i>Aconitum ferox</i> Wall. Ex Seringe
26 th March 2015	NEHU SHILLONG	Oral presentation (National Seminar)	Medicinal and traditional use values of <i>Aconitum</i> , a high elevation herb of Himalayas and North-East India
22 nd March 2017	Kiang Nangbah Govt. College, Jowai, Meghalaya	Oral presentation (National Seminar)	Waste Management and Bioresource Technology
20 th March 2021	CSIR-NBRI LUCKNOW	Oral Presentation XLIII All India Botanical Conference	Distribution mapping of <i>Aconitum</i> species with narrow niche and limited distribution in Eastern Himalayas

Workshop, Training, Faculty Development Program etc

Name of course attended	Sponsoring Institute	From date	To date
Newton Bhabha Researchers Link Workshop 2020	Newton-Bhabha Fund	02-01-2022	06-01-2022
Application of open source geospatial tools in ecological niche modelling	Centre For Advanced Studies In Botany NEHU	21-09-2016	23-09-2016
Short term course in SPSS	UGC-HRDC	27-06-2016	02-07-2016
Interactive workshop for project formulation and report writing	DBT state level biotech hub	08-06-2016	10-06-2016
Hands on training workshop on techniques in molecular biology	Department of Biotechnology	10-11-2014	21-11-2014
Workshop on mass spectrometry and its applications	Sophisticated Analytical Instrumentation Facility NEHU	18-03-2014	21-03-2014
National workshop on hands on training in the field of plant reproductive biology	Department of Biotechnology	21-02-2014	22-02-2014

Extra-curricular activities:

- Attended the Summer School in Botany for College Students under Centre for Advanced Studies in Botany, North Eastern Hill University, Shillong 790022.
- Passed the National Cadet Corps (NCC) Certificate 'C' Examination in 'B' Grade held in 2008 under authority of Ministry of Defence, Government of India.
- Attended National Integration Camp 2008 Itanagar, Arunachal Pradesh and was adjudged as Best Cadet overall.
- Passed the National Cadet Corps (NCC) Certificate 'B' Examination in 'C' Grade held in 2007 under authority of Ministry of Defence, Government of India.
- Attended Combined Annual Training Camp NCC at 58 GTC in year 2006. Participated in Army Attachment Camp held at 101 area Field Corps Signals Regiment (FCSR) on June 2006.
- Attended All India NER Trek 2005 held at Shillong.
- Attended Cockerel Adventure Camp, Tiger Cubs 2001 held at Oarmanjhi (RANCHI) in June 2001 and achieved proficiency in Trekking, camping and living off the land, jungle craft, slithering, Unarmed combat, archery, Obstacle course, survival exercises, knots and lashes, first aid and medical cover and boat-riding.
- Served as house captain, prefect, class-monitor and held many such responsible posts as Camp-Senior and contingent leader throughout my academic career.
- Served as Vice President, Rotaract Club NEHU during FY 2015-16

DECLARATION:

I do hereby declare that the above information is true to best of my knowledge and information.



RAGHUVAR TIWARY