

## **Lists of Publications (2023 –2003)**

### **Papers Published in 2023**

- Akib Ali, Ramsong C Nongpiur, Nikhil K Chrungoo (2023). An efficient *Agrobacterium*-mediated transformation and regeneration protocol for aromatic black rice, *Oryza sativa* L.(cv. Chakhao Poireiton and Chakhao Amubi). *Plant Cell, Tissue and Organ Culture* (PCTOC),152(3):619-33.
- Ankita Misra, Mridul Kant Chaudhary, Satyendra Pratap Singh, Deepali Tripathi, Saroj Kanta Barik and Sharad Srivastava (2023). Docking experiments suggest that gloriosine has microtubule-targeting properties similar to colchicine. *Scientific Reports* 13(1):4854. DOI: [10.1038/s41598-023-31187-6](https://doi.org/10.1038/s41598-023-31187-6)
- Chungreiliu, A. K, Dkhar, M.S. chuzho, Chuzho, K and Kayang, H. (2023). *Fomitiporia gaoligonensis* B. K. cui and Hong Chen, sp. Nov: A new addition to Indian Mycoflora from Manipur. *International Journal of current Microbiology and applied Sciences*, 12 (03): 60 -65: <https://doi.org/10.205-46/ijcmas,2023.1203.008>
- Das, M. C, Nongsiang, A and Sanglyne, M.W. (2023). Detection methods and in vitro elimination techniques for orchid viruses. A Review. *South African Journal of Botany*, 153, 227-235. <https://doi.org/10.1016/j.sajb.2022.12.003>.
- Diengdoh, R. V., Das M. C., Nongsiang A., Kumaria S. (2023). Efficient utilization of phytohormones for the in vitro proliferation of *Paphiopedilum villosum* Lindl. Stein - a Lady's Slipper orchid. *South African Journal of Botany*, 154: 387-393.
- Debnath, S., Kumaria S. (2023). Insights into the phytochemical accumulation, antioxidant potential and genetic stability in the *in vitro* regenerants of *Pholidota articulata* Lindl., an endangered orchid of medicinal importance. *South African Journal of Botany*, 152: 313-320.
- Ferry Kharshandi and Highland Kayang (2023). Antagonistic potential of rhizobacterial isolates against fungal pathogens causing rhizome rot in turmeric. *Archives of Microbiology* (2023), 205:221; <https://doi.org/10.1007/s00203-023-03565-1>

- Lytan, R. Odyuo, N. and Uma Shankar (2023). Extended distribution of *Peliosanthes macrophylla* var. *assamensis* N. Tanaka & D. Borah (Asparagaceae), from Wokha District of Nagaland in Northeast India. *Pleione* 17: 100-103.
- Prem Prakash Singh, Mukunda Dev Behera, Richa Rai, Uma Shankar, Krishna Upadhaya, Ibadahun Mary Nonghuloo, Aabid Hussain Mir, Sushmita Barua, Mariya Naseem, Pankaj Kumar Srivastava, Raghuvar Tiwary, Anita Gupta, Vartika Gupta, Sampurna Nand, Dibyendu Adhikari and Saroj Kanta Barik. (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* volume 195, Article number: 139.
- Shabong, K and Kayang, H. (2023). First report of *Diaporthe tulliensis* causing leaf spot of betel vine. *New Diseases Reports*. wileyonlinelibrary.com/journal/ndr2 1 of 3; <https://doi.org/10.1002/ndr2.12174>
- Vishwakarma S. K., Singh N., Kumaria S. (2023). Genome-wide identification and analysis of the *PAL* genes from the orchids *Apostasia shenzhenica*, *Dendrobium catenatum* and *Phalaenopsis equestris*. *Journal of Biomolecular Structure and Dynamics*, 41(4): 1295-1308.

### **Papers Published in 2022**

- Balasara War, Highland Kayang (2022). Antifungal Activity of Essential oil Extracted from *Kaempferia galanga* L. Rhizome against Fungal Phytopathogens. Indian Journal of Agricultural Research DOI: [10.18805/IJARE.A-6012](https://doi.org/10.18805/IJARE.A-6012).
- Bose B., S. Kumaria and P. Tandon (2022). Physiological insights into the role of temperature and light conditions on *in vitro* growth, membrane thermostability and antioxidative activity of *Nardostachys jatamansi*, an IUCN Red-listed critically endangered therapeutic plant. *South African Journal of Botany* 146: 365-374.
- Diengdoh, R.V, M. C. Das, A. Nongsiang and S. Kumaria (2022). Recent In Vitro Propagation: Advances in Genus *Paphiopedilum*: Lady Slipper Orchids In: *Commercial Scale Tissue*

*Culture for Horticulture and Plantation Crops*. S. Gupta and P. Chaturvedi (Eds). ISBN No. 978-981-19-0055-6. Springer, Chapter 14, pp 317-335.

Jyoti Pathak, Upasna Chettry, Nikhil K Chrungoo, Arun B Gurung (2022). RNA-Seq analysis reveals the role of MYB12, MYB111 and MBW complex repressors in regulation of flavonoid biosynthesis in stigmas of saffron (*Crocus sativus* L.) flowers. *Acta Physiologiae Plantarum*.44(4):42.

Nag, S., Singh N., Kumaria S. (2022). Phytochemicals as antibacterial agents: Current status and future perspective. In *Alternatives to Antibiotics*. T. Saha, M. Deb Adhikari and B.K. Tiwary (Eds.). Springer, Singapore, ISBN: 978-981-19-1853-7, Chapter 2, pp. 35-55.

Nongsiang, A and Das, M.C. (2022). Simultaneous detection of odontoglossum ringspot virus (ORSV) and Cymbidium mosaic virus (CymMV) infecting orchids in Meghalaya, India by Multiplex RT-PCR. *South African Journal of Botany*, 151; 774-780. <https://doi.org/10.1016/j.sajb.2022.10.036>.

Parveen S., N. Singh, A. Adit, S. Kumaria, R. Tandon, M. Agarwal, A. Jagannath and S. Goel (2022). Contrasting reproductive strategies of two *Nymphaea* species affect existing natural genetic diversity as assessed by microsatellite markers: Implications for conservation and wetlands restoration. *Front. Plant Sci.*13:773572. doi: 10.3389/fpls.2022.773572

Rani, M. B. and Kayang, H. (2022). Plant Growth Promoting Rhizospheric *Bacillus* Spp. Isolated from Black Pepper (*Piper nigrum* L.). *Indian Journal of Agricultural Research*. DOI: 10.18805/IJARE.A-6052.

Rani, M.B. and Kayang, H. (2022). Plant Growth Promoting Rhizospheric *Bacillus* Spp. Isolated from Black Pepper (*Piper nigrum* L.). *Indian Journal of Agricultural Research*. DOI: 10.18805/IJARE.A-6052.

Shankar, U. (2022). Formation-to-fall: natural history and the journey of a lesser-known genus of orchids, *Monomeria*. *Indian Journal of History of Science* (Springer) 56(3): 204-216 (<https://link.springer.com/article/10.1007/s43539-021-00022-0>).

Uma Shankar (2022). Patterns in taxonomic diversity and geographical distribution of Hamamelidaceae in India. *Journal of Botanical Society of Bengal*: 76(2): 1-14.

Sarma, S.S., Deori, C. and Uma Shankar (2022). Notes on the taxonomy and distribution of *Ficus prostrata* (Wall. ex Miq.) Buch. - Ham. ex Miq. (Moraceae) – A lesser-known species from Nagaland (India). *Pleione* 16: 222-226.

Shabong, K and Kayang, H. (2022). First report of *Neodeightonia subglobosa* causing leaf rot disease of betel leaf (*Piper betle*) in India., New Diseases Reports. <https://doi.org/10.1002/ndr2.12140>; wileyonlinelibrary.com/journal/ndr2 pg 1-3.

### **Papers Published in 2021**

Bharali, R, Shankar, U. and Brahma, J. 2021. Extent of polymorphism and heteromorphism in pollen grains of two invasive species of *Ageratina* Spach in Northeast India. *Journal of History of Botanical Society of Bengal* 75(2): 63-85.

Chuzho K. and Dkhar M.S. (2021). Wood-rotting fungi of Nagaland. In: Recent Advancements of Science and Technology by Nongsaing D., Paul D. and Marak J.C.P. Sara Publication, Ahmadabad, Gujrat, India, pp. 86-115.

Chrungoo, N. K. and Chetry, U. (2021). Buckwheat: A critical approach towards assessment of its potential as a super crop. *Indian J. Genet* 81 (1): 1-23.

Das, M. C., Devi, S.D., Kumaria, S., Reed, B.M. (2021). Looking for a way forward for the cryopreservation of orchid diversity. *Cryobiology*. 102:1-14.

Ferry Kharshandi, Alarisa Khylllep, Highland Kayang (2021). Plant Growth Promoting Rhizobacteria of *Curcuma longa* L. and their Impact on its growth. *Proc. Natl. Acad Sci. India, Sect. B. Biol.Sc.* <https://doi.org/10.1007/s40011-021-01268-5>.

Kharkongor P. S., Dkhar M. S., Chuzho K. (2021). Documentation and preliminary study of wood inhabiting fungi from two forest stands of Ri-Bhoi district, Meghalaya. *Biological Spectrum of Northeast India: Annual Bioscience Communication Volume 1*, ISSN: 978-9390-434-190, pp. 48-54.

Khyllip A., Thakuria D. and Dkhar M. S. (2021). Effect of jhum cycles on acidobacteria and burkholderia community in the rhizosphere of mixed crops of different jhum fields. *Applied Ecology and Environmental Sciences*, 9(11): 919-930.

Mayondi Grace Ramsdam, Anand Kumar Chaudhari, Vipin Kumar Singh, Mamtaj S. Dkhar, Highland Kayang, Nawal Kishore Dubey and Bhanu Prakash (2021): Antifungal and antioxidant activity of plant based essential oils on *Aspergillus flavus* Link (Trichocomaceae) isolated from stored maize grains of Meghalaya, *Archives of Phytopathology and Plant Protection*, DOI: 10.1080/03235408.2021.1911561.

Naseem F, Kayang H (2021). Endophytic fungal diversity of endemic carnivorous plant *Nepenthes khasiana* in Meghalaya, India. *Studies in Fungi* 6(1), 138–150, Doi 10.5943/sif/6/1/7, [www.studiesinfungi.org](http://www.studiesinfungi.org). ISSN 2465-4973

Vishwakarma, S. K., Singh, N. and Kumaria, S. (2021). Genome-wide identification and analysis of the PAL genes from the orchids *Apostasiashenzhenica*, *Dendrobiumcatenatum* and *Phalaenopsisesequestris*. *Journal of Biomolecular Structure and Dynamics*, <https://doi.org/10.1080/07391102.2021.2019120>

Zhang Kaixuan, Ming He, Fan Yu, Zhao Hui, Bin Gao, Yang Keli, Li Faliang, Tang Yu, Qiang Gao, Tao Lin, Muriel Quinet, Dagmar Janovská, Vladimir Meglič, Kwiatkowski Jacek, Olga Romanova, Chrungoo Nikhil, Suzuki Tatsuro, Zlata Luthar Mateja Germ, Woo Sun-Hee, Milen I. Georgiev, Zhou Meiliang (2021). Resequencing of global Tartary buckwheat accessions reveals multiple domestication events and key loci associated with agronomic traits. *Genome biology* 22 (1): 1-17.

### **Papers Published in 2020**

Barman D. and Dkhar M. S. (2020). Endophytic microorganisms: colonization, plant-microbe interaction, diversity and their Bioprospecting: A Review article in *Research Journal of Biotechnology*, 15(7): 151-179.

Barman D. and Dkhar M. S. (2020). Seasonal Variation Influence Endophytic Actinobacterial Communities of Medicinal Plants from Tropical Deciduous Forest of Meghalaya and

Characterization of Their Plant Growth-Promoting Potentials. *Current Microbiology*, 77:1689–1698. <https://doi.org/10.1007/s00284-020-01988-3>. (IF-1.792).

Bhat Nazir Ahmad, Mipun Puranjoy and Kumar Y. (2020). Ethnobotanical survey of wild edible plants used by the Indigenous people of East Khasi Hills District of Meghalaya, North East India, New India Publishing Agency, India.

Borah Dipankar, Singh Rajeev Kumar, Mipun Puranjoy, Narah Deiji and Kumar Y. (2020). Rediscovery of *Pseudobartsia glandulosa* (Orobanchaceae), a little known, critically endangered herb after 179 years from India, and first report from Eastern Himalayan state Arunachal Pradesh, *Phytotaxa* 451 (1): 097–102.

Brahma Joyeeta and Shankar Uma (2020). Allelopathy effect of *Ageratum conyzoides* L. and *A. houstonianum* Mill. on *Zea mays* L. In: *Conservation and Management of bio-resources for Rural Development, Department of Botany, University of Science and Technology, Meghalaya*. Pp 89-96.

Chaudhari A. K., Singh A., Singh V. K. A., Dwivedy K., Das S., Ramsdam M. Y., Dkhar M.S., Kayang H. and Dubey N. K. (2020). Assessment of chitosan biopolymer encapsulated  $\alpha$ -Terpineol against fungal, aflatoxin B<sub>1</sub> (AFB<sub>1</sub>) and free radicals mediated deterioration of stored maize and possible mode of action. *Food Chemistry*, 311, (Elsevier) <https://doi.org/10.1016/j.foodchem.2019.126010> (IF: 5.399).

Chettry Upasna and Chrungoo Nikhil K. (2020). A multifocal approach towards understanding the complexities of carotenoid biosynthesis and accumulation in rice grains. *Briefings in Functional Genomics*, doi:10.1093/bfpgp/elaa007.

Chuzho K. and Dkhar M.S. (2020). *Pholiota polychroa* and *Porodisculus orientalis*, two new additions to wood-rotting fungi in India. *Studies in Fungi*, 5(1): 447-451.

Chrungoo, N K. and Chettry, U. (2020). A multifocal approach towards understanding the complexities of carotenoid biosynthesis and accumulation in rice grains. *Briefings in functional genomics* 19 (4): 324-335.

- Diengdoh Reema Vareen, S. Kumaria and Meera Chettri Das (2020). *In vitro* seed storage of *Paphiopedilum villosum* Lind., an endangered lady's slipper orchid. *The NEHU Journal*, XVIII (1):21-31. ISSN. 0972 – 8406.
- Dohtdong, L. and Chrungoo, N. K. (2020). Functional characterization of an endosperm specific promoter p1062 from common buckwheat (*Fagopyrum esculentum* Moench) for driving tissue specific gene expression *Folia biologica et Geologica* 61 (1): 45-54.
- Kehie M., K. Sangeeta Devi, S. Kumaria and P. Tandon (2020) Molecular insights into the genetic diversity of Naga King Chili based on Start Codon Targeted (SCoT) polymorphism. In: *Biodiversity and Sustainable Development – Advances and Perspectives* (Ed. Mechuselie Kehie), Whetstone Publications, Dimapur, Nagaland, pp. 71- 86.
- Mipun Puranjoy and Kumar Y. (2020). Quantitative ethnobotanical study of the medicinal plant *Geophilarepens*(L.) I.M. Johnst. (Rubiaceae) used by the Karbi indigenous group in Assam, India, New India Publishing Agency, India.
- Momang Taram, Mipun Puranjoy and Borah Dipankar (2020). *Rhynchotechum parviflorum* Blume (Gesneriaceae): a new record to mainland India, *Journal of Threatened Taxa*, 12(1): 15208–15211.
- Narah Deiji, Bhat Nazir Ahmad, Mipun Puranjoy and Kumar Yogendra (2020). *Zingiber flavofusiforme* (Zingiberaceae), a New Record for the Flora of India. *The Journal of Japanese Botany* 95 (2): 102-105.
- Paul P. and Kumaria S. (2020). Precursor- induced bioaccumulation of secondary metabolites and antioxidant activity in suspension cultures of *Dendrobium fimbriatum*, an orchid of therapeutic importance. *South African Journal of Botany*, 135: 137–143 (IF: 1.792).
- Pathaw N., Gurung Arun Bahadur, Chrungoo Nikhil Kumar, Bhattacharjee Atanu , Saikat Ro, Subhra, Ansari Meraj Alam and Sharma Susheel Kumar (2020). *In silico* molecular modelling, structural dynamics simulation and characterization of antifungal nature

of  $\beta$ -glucosidase enzyme from *Sechium edule*. *Journal of Biomol. Structure and Dynamics*, DOI:10.1080/0739110 2.2020.1791956.

Roamai S., M. Kehie, K. Sangeeta Devi, Sonawotki Kyndiah, S. Kumaria and P. Tandon (2020) Phytochemical profiling and genetic fidelity assessment of micropropagated plants of *Homalomena aromatica* using SCoT and ISSR markers. In: *Biodiversity and Sustainable Development – Advances and Perspectives* (Ed. Mechuselie Kehie), Whetstone Publications, Dimapur, Nagaland, pp. 37- 49.

Sarma P., Dkhar M.S., Kayang H., Kumar M., Dubey N.K. and Raghuwanshi R. (2020). Diversity of endophytic fungi associated with *Hedychium spicatum* Ham ex Sm. and their antifungal activity against the phytopathogen *Alternaria solani*. *Studies in Fungi* 5(1): 84–93.

Singh N. and Kumaria S. (2020). Molecular cloning and characterization of chalcone synthase gene from *Coelogyne ovalis* Lindl. and its stress-dependent expression. *Gene* 762, 145104 (IF: 2.984).

Singh N. and Kumaria S. (2020). Deciphering the role of stress elicitors on the differential modulation of chalcone synthase gene and subsequent production of secondary metabolites in micropropagated *Coelogyne ovalis* Lindl., a therapeutically important medicinal orchid. *South African Journal of Botany* <https://doi.org/10.1016/j.sajb.2020.06.019>

Singh N. and S. Kumaria (2020). A combinational phytomolecular-mediated assessment in micropropagated plantlets of *Coelogyne ovalis* Lindl. A horticultural and medicinal orchid. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.*, 90 (2):455-466 (Impact Factor 0.396).

Uma Shankar 2020. Primitive angiosperms in the Indian Subcontinent: taxonomic diversity and geographical distribution of Magnoliaceae Juss. (APG IV). *Pleione* 14(1): 137-151.

Uma Shankar 2020. First record of new 'invasion' in northeast India by *Centaurea cyanus* L. (Asteraceae). *The NEHU Journal* 18(1): 100-111.

## Papers Published in 2019

- Adhikari D., Tiwary R., Singh P. P., Upadhaya K., Singh B., Haridasan K. E., Bhatt B. B., Chettri A., 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.
- Bose B., Tripathy D., Chatterjee A., Tandon P., Kumaria S. (2019). Secondary metabolite profiling, cytotoxicity, anti-inflammatory potential and *in vitro* inhibitory activities of *Nardostachys jatamansi* on key enzymes linked to hyperglycemia, hypertension and cognitive disorders. *Phytomedicine*, 55 (2019) 58–69 (Impact Factor: 3.610).
- Chettry Upasna, Chrungoo, Nikhil K. and Kulkarni Kirti (2019). Comparative transcriptomics approach in elucidation of carotenoid biosynthesis regulation in grains of rice (*Oryza sativa* L.). *Scientific Reports*. DOI:10.1038/s41598-018-38233-8 2.
- Chrungoo N.K., Devi R.K. Jashmi, Goel S. and Das K. (2019). Deciphering species relationships and evolution in *Chenopodium* through sequence variations in nuclear internal transcribed regions and amplified fragment-length polymorphism in nuclear DNA. *Jour. Genetics*, 98:37, DOI: 10.1007/s12041-019-1079-0.
- Chuzho K., Dkhar M.S. (2019). Diversity of Ascomycetous wood-rotting fungi along an altitudinal gradient in forests of Nagaland and first report of *Jackrogersella minutela* from India. *Journal of Indian Academy of wood Sciences*, DOI: 10.1007/s13196-109-00233-0. (Impact factor: 0.60, h5 index: 7).
- Diengdoh Reema V., Kumaria S., Das M. C. (2019). Antioxidants and improved regrowth procedure facilitated cryoconservation of *Paphiopedilum insigne* Wall. Ex. Lindl. - An Endangered Slipper Orchid. *Cryobiology*, 87: 60-67. (Impact Factor: 2.05).

- Devi S. Devika, Kumaria S., Das M. C. (2019). Development of cryopreservation protocol for *Aquilaria malaccensis* Lam., a recalcitrant seeded tropical tree species. *CryoLetters*, 40 (1): 18-27.
- Devi S. Purnima, Kumaria S., Sharma Ph. Ranjit, Khoyumthem1 P., Tandon P. (2019). *Nepenthes khasiana* Hook f., an endangered tropical pitcher plant of India. *Indian Journal of Traditional Knowledge*, 18 (1): 68-75 (Impact Factor 1.061)
- Dohtdong L. and Chrungoo N.K. (2019). Functional characterization of an endosperm specific promoter p1062 from common buckwheat (*Fagopyrum esculentum* Moench) for driving tissue specific gene expression. *Folia Biologica et Geologica*, 61/1: 45-54.
- Hajong S., S. Kumaria and P. Tandon (2019). Synergistic effect of PPF and mycorrhization for efficient *in vitro* propagation of *Dendrobium chrysanthum* Wall. ex Lindl. *International Journal of Current Microbiology and Applied Sciences*, 8(10): 1290-1308 (Impact Factor 0.16).
- John R. I. Wood, Mipun Puranjoy, Borah Dipankar, Lod Yama and Kumar Y. (2019). *Strobilanthes wangensis* (Acanthaceae), a new species from the East Himalayas, *Kew Bulletin*, 74:41.
- Kumaria S., Paul P. (2019). Orchids: The Wealth of Nature. *Oneness, An SNGCC publication*, 1 (IV):13-14 & 19-20.
- Kumar M., Dwivedy A.K., Sarma P., Dkhar M.S., Kayang H., Raghuwanshi R. and Dubey N.K. (2019). Chemically characterized *Artemisia nilagirica* (Clarke) Pamp. essential oil as a safe plant-based preservative and shelf-life enhancer of millets against fungal and aflatoxin contamination and lipid peroxidation. *Journal of Plant Biosystems* (Taylor & Francis), <https://doi.org/10.1080/11263504.2019.1587539>. (IF: 1.203).
- Majumdar K., Adhikari D., Datta B. K., Barik S. K. (2019). Identifying corridors for landscape connectivity using species distribution modelling of *Hydnocarpus kurzii* (King) Warb., a threatened species of the Indo-Burma Biodiversity Hotspot. *Landscape and Ecological Engineering*, 15(1), 13-23.

- Makdoh K. and Kayang H. (2019). Diversity of Arbuscular Mycorrhizal Fungi in trap cultures prepared from abandoned coal mine overburden spoils. *Journal of Pure and Applied Microbiology*, 13 (1): 629-636.
- Mipun Puranjoy, Adhikari Dibyendu, Bora Amritee, Bhat Nazir Ahmad and Kumar Yogendra (2019). Species distribution modelling of *Bruceamolliswall.* ex kurz in Northeast India for its conservation, *Plant Archives*, 19(2):3191-319.
- Mipun Puranjoy, Bhat Nazir Ahmad, Borah Dipankar and Kumar Yogendra (2019). Non-timber forest products and their contribution to healthcare and livelihood security among the Karbi tribe in Northeast India, *Ecological Processes*, 8:41.
- Mipun Puranjoy, Borah Dipankar, Bhat Nazir Ahmad, Kumar Yogendra (2019). Checklist for Phytodiversity of East Karbi Anglong Wildlife Sanctuary, Assam, Northeast India: Part I, *Ambient Science*, 06(2).
- Mir A. H., Jeri L., Upadhaya K., Bhat N. A., Borah R., Choudhury H., Kumar Y. (2019). Diversity, Bioprospection and Commercial Importance of Indian Magnolias, *Plants for Human Survival and Medicine*, 195-218. New India Publishing Agency, New Delhi.
- Nongkynrih Chester John, Mipun Puranjoy and Kumar Yogendra (2019). Bamboos: Diversity and its utilization in Meghalaya, Northeast India, *Plant Archives*, 19(2): 3106-3110.
- Sarma N., Uma Shankar and Mao A.A. (2019). An assessment of the invasive flora of Amchang Wildlife Sanctuary, Kamrup, Assam. *Pleione* 13(2): 326-335. (doi:10.26679/Pleione.13.2.2019.326-335).
- Singh N. and S. Kumaria (2019). *Ex - situ* multiplication of *Coelogyne ovalis* Lindl.: Nutrient optimization for asymbiotic seed germination and mass scale propagation of genetically stable plantlets. *International Journal of Life Sciences Research*, 7 (2): 503-512. (SJIF Impact Factor 6.38).
- Srivastava G., Tao Su, Mehrotra R.C., Kumari P. and Uma Shankar (2019). Bamboo fossils from Oligo–Pliocene sediments of northeast India with implications on their evolutionary ecology and biogeography in Asia. *Review of Palaeobotany and Palynology* 262: 17-27. (<https://doi.org/10.1016/j.revpalbo.2018.12.002>).

Uma Shankar (2019). Phytosociology of stratification in a lowland tropical rainforest occurring north of the tropic of cancer in Meghalaya, India. *Plant Diversity* 41: 285-299. (<https://doi.org/10.1016/j.pld.2019.08.001>).

### **Papers Published in 2018**

Adhikari D., Singh P. P., Tiwary R., 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

Adhikari D., Mir A. H., Upadhaya K., Iralu V., Roy D. K. (2018). Abundance and habitat-suitability relationship deteriorate in fragmented forest landscapes: a case of *Adinandra griffithii* Dyer, a threatened endemic tree from Meghalaya in northeast India. *Ecological Processes*, 7(3): 1-9.

Anandhapriyan M., Uma Shankar (2018). Hypothesis on anthropogenic speciation along roads – case study using *Lantana camara* L. *The International Reviewer* 5: 14-18. (ISSN 2395-1575).

Adhikari, D., Reshi, Z., Datta, B. K., Samant, S. S., Chettri, A., Upadhaya, 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., Reshi Z., Dutta B.K., Samant S.S., Chettri A., Upadhaya K., Shah M.A., Singh P.P., Tiwary R., Majumdar K., Pradhan A., Thakur M.L., Salam N., Zahoor Z., Mir S.H., Kaloo Z.A., Barik, S.K. (2018). Inventory and characterization of new populations through ecological niche modelling improve threat assessment. *Current Science*, 114(3): 519-531.

Barik S. K., Chrungoo N. K., Adhikari D. (2018). (eds.) Conservation of threatened plants of India, (special volume: conservation of threatened plants).

Barik, S. K., Chrungoo, N. K., Adhikari, D. (2018). Conservation of Threatened Plants of India. *Current Science*, 114 (3): 468-469.

- Barik, S. K., Rao, B. R. P., Haridasan, K., Adhikari, D., Singh, P. P., and 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.
- 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.
- Barman D., Dkhar M. S. (2018). Plant growth-Promoting Potential of Endophytic Bacteria Isolated from *Costus speciosus* in Tropical Deciduous Forest of Eastern Himalaya. *Proc. Natl. Acad. Sci., India, Sect. B. Biol. Sci.* <http://doi.org/10.1007/s40011-018-0998-5>.
- Bhat N.A., Jeri L., Roy D. Kr., Kumar Y. (2018). PETROSAVIACEAE, a new family record for India, *Bangladesh Journal of Plant Taxonomy*. 25(1): 113-117.
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