

Lists of Publications (2003 –2020)

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>. (Impact Factor 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.
- 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 α -Terpineol against fungal, aflatoxin B₁ (AFB₁) 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).
- Chetry 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/bfgp/elaa007.
- Diengdoh Reema Varen, 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

- 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.
- 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 β -glucosidase enzyme from *Sechium edule*. *Journal of Biomol. Structure and Dynamics*,DOI:10.1080/0739110 2.2020.1791956.
- 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, Doi 10.5943/sif/5/1/8.
- 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).

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).
- Chetry 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. and 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*, 61(1): 36-43, DOI: 10.1007/s13196-109-00233-0.
- 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 Puranjay, Borah Dipankar, Lod Yama and Kumar Y. (2019). *Strobilanthes wangensis* (Acanthaceae), a new species from the East Himalayas, *Kew Bulletin*, 74:41.
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- 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).
- 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 Puranjay, Adhikari Dibyendu, Bora Amritee, Bhat Nazir Ahmad and Kumar Yogendra (2019). Species distribution modelling of *Brucea mollis* Wall. ex kurz in Northeast India for its conservation, *Plant Archives*, 19(2):3191-319.
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- Nongkynrih Chester John, Mipun Puranjy 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).
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- 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
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- 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.
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- Chaudhari A.K., Singh V.K., Dwivedy A.K., Das S., Upadhyay N., Singh A., Dkhar M.S., Kayang H., Prakash B., Dubey N.K. (2018). Chemically characterized *Pimenta dioica* (L.) Merr. essential oil as a novel plant based antimicrobial against fungal and aflatoxin B1 contamination of stored maize and its possible mode of action. *Natural Product Research*, DOI: [org/10.1080/14786419.2018.1499634](https://doi.org/10.1080/14786419.2018.1499634). (Impact factor: 1.82).
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- 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.
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