

Publications of the Botany Department [2019-2024]

Publications: Dr. Uttam Kumar Kanp

1. Bhakat, N., Chakraborty, A., Datta, S. and Kanp, U. K. (2019). Ayurvedic use of medicinal plants for the treatment of diabetes and menstrual disorder at Narajole gram panchayat. International Journal of Integrated Research and Development (WIRD), 1(25), 238-243. ISSN: 2278-8670. UGC listed Journal no. 41601.
2. Kanp, U. K. and Kundu, S. (2019). Allelopathic potential of leaf leachates of *Chromolaena* and *Lantana* on mung bean (*Vigna radiata* L. cv. K-851) seeds. International Journal of Pharmaceutical Sciences and Research (UPSR), Vol. 10 (9), 4245-4250. E-ISSN: 0975-8232, P-ISSN: 2320-5148. Web of Science.
3. Haque, M., Kanp, U. K., Bhakat, R. K. and Bhattacharjee, A. (2020). An analysis of relative allelopathic vigour of three weeds of West Bengal using their leaf extracts on germination behavior of *Vigna radiata* seeds. Journal of Critical Reviews, 1(10), 546-555. ISSN: 2394-5125. Scopus Journal.
4. Haque, M., Kanp, U. K., Bhakat, R. K. and Bhattacharjee, A. (2020). A probe on comparative allelopathic potential of a monocotyledonous versus two dicotyledonous weeds of West Bengal using their leaf extracts and leachates on cells of *Allium cepa* root tips. Eurasian Journal of BioSciences, 14, 1387-1395. ISSN: 1307-9867. Scopus Journal.
5. Kanp, U. K., Bhattacharjee, A. and Maiti, P.P. (2020). Influence of plant extracts of *Asteracanthus llingifolia* and safed musli on viability extension of sunflower seeds under artificial stress storage environment. International Journal of Botany Studies, 05 (05), 277-281. ISSN: 2455-541X. Web of Science Group.
6. Kanp, U. K., Bhattacharjee, A. and Haque, M. (2021). Viability extension of sunflower seeds by chemical manipulative method. Annals of Romanian Society for Cell Biology (Annals of RSCB), 25(2), 4389-4399. ISSN: 1583-6258. Scopus Journal.
7. Kanp, U. K. (2022). Prolongation of seed viability by some selected plant extracts. Research Journal of Agricultural Sciences, An International Journal, 13 (01), 155-158. P-ISSN: 0976-1675, E-ISSN: 2249-4538. UGC care Journal.
8. Kanp, U. K. (2022). An investigation on allelopathic effect of *Melaleuca leucadendron* L. on horse gram seeds. Research Journal of Agricultural Sciences, An International Journal, 13 (03), 637-641. P-ISSN: 0976-1675, E-ISSN: 2249-4538. UGC care Journal.

Publications: Prof Nandita Bhakat

1. Pramanik, R & Bhakat, N. (2017). Devil Umbrellas: Their Biodiversity and Importance. International Journal of Integrated Research and Development. 6(2):53-55, ISSN: 2278-8670. UGC listed journal no. 41601.
2. Bhakat, N & Pramanik, R. (2017). Human Activities Associated with Roadside Trees of Kolkata. International Journal of Integrated Research and Development. 6(2):56-58. ISSN: 2278-8670. UGC listed journal no. 41601.
3. Pramanik, R., Bhakat, N., Kundu, S & Das, Debabrata. (2018). Preliminary Study on Forest Macro-Fungi at Purnapani Forest of Jhargram in West Bengal. International Journal of Life Sciences Research. 6(2):318-323. ISSN: 2348-3148. UGC listed journal no. 44761.

Publications of the Botany Department [2019-2024]

4. Bhakat,N., Chakraborty,A., Datta,S.K., Kanp,U.K. (2019). Ayurvedic Use of Medicinal Plants for the Treatment of Diabetes and Menstrual Disorder at Narajole Gram Panchayat. International Journal of Integrated Research and Development. 1(25): 238-243. ISSN: 2278-8670. UGC listed journal no. 41601.
5. Bhakat,N & Gupta,I.P. (2021). Diversity of Woody Climbers (lianas) and their Ethno-Medicinal importance in the district of Paschim Medinipur, West Bengal, India. Research Journal of Agricultural Sciences-An International Journal. 12(5):1722-1725. PISSN:0976-1675. EISSN:2249-4538. UGC Care Listed Journal No. 396.
6. Pramanik,R., Gupta, I.P. & Bhakat,N. (2022). Diversity and Ethno-medicinal Importance of Tree Species in Two Ancient Sacred Groves of Purulia, West Bengal. Research Journal of Agricultural Sciences-An International Journal. 13(6):1839-1841. PISSN:0976-1675. EISSN:2249-4538. UGC Care Listed Journal No. 396.
7. Pramanik,R., Bhakat, N. & Gupta, I.P. (2023). Diversity of Tree Species in Similipal Biosphere Reserve, Odisha, India. Research Journal of Agricultural Sciences-An International Journal. 14(01):160-163. PISSN:0976-1675. EISSN:2249-4538. UGC Care Listed Journal No. 396.
8. Bhakat, N. & Gupta, I.P. (2023). Quantitative Analysis of the Three Lianas, Ethnomedicinally Used for the Treatment Of Diabetes. Research Journal of Agricultural Sciences-An International Journal. 14(5):1451-1453. PISSN:0976-1675. EISSN:2249-4538. UGC Care Listed Journal No. 396.
9. Bhakat, N. & Gupta, I.P. (2023). Quantification of Berberine Chloride in *Tinospora cordifolia* Collected from Three Different Localities, Through HPLC. Research Journal of Agricultural Sciences-An International Journal. 14(5):1466-1468. PISSN:0976-1675. EISSN:2249-4538. UGC Care Listed Journal No. 396.
10. Bhakat,N., Gupta,I.P. & Pramanik,R. (2023). Diversity of Liana Species With Their Ethnomedicinal Importance In The District Of Purba Medinipur, West Bengal, India. DSPMU Journal of Natural Sciences. 1(1):26-30.

Book Chapters

1. Bhakat,N. Basic Importance of Minerals on Human Health. Sodium-its role and importance on human health. Page no:10-18. Year:2020. Taurean Publications. ISBN: 978-93-86330-34-5.
2. Bhakat,N. Multidisciplinary review book: Chapter Organic farming. Page no. 119-124. Year: 2022. Taurean Publications. ISBN: 978-93-91074-40-1.
3. Bhakat,N. The Recent Advances in Science in Global Perspective. Chapter-Phyto-remediation to clean-up our Environment. Year:2024. ISBN:978-93-93934-52-9.

Publications: Prof Bangamoti Hansda

1. Mahato G, Mahato R K, Hansda B (2024): Analysis of Phytoconstituents, Antioxidant and Anti-bacterial Properties of an Ethnobotanical Herb *Cotula anthemoides* L. Occurring in Purulia District of West Bengal, India. Pharmacogn. Res., 16(1): 51-58.
2. Mukherjee P A, Chakraborty P, Hansda B and Khalua R K (2022). Unravelling the Role of Allelochemicals through a Plant-Insect Pest-Natural Enemy Tripartite Interaction: Implications in Sustainable Agriculture. SFS 10(3S):6692-6697.

Publications of the Botany Department [2019-2024]

3. B. Hansda, G. Mahato, A. Bera, N. Banerjee (2022). Identification And Characterization Of Phenolic Compounds In Root Extract Of Two Ethnomedicinal Plants *Curculigo Orchioides* And *Asparagus Racemosus*. Int J Life Sci Pharma Res., 12(1), pp L138-147.

Publications: Dr. Prithwi Ghosh

1. Joydeep Chakraborty, **Prithwi Ghosh**. Advancement of research on plant NLRs evolution, biochemical activity, structural association, and engineering. **Planta**. 2020 Nov 12;252(6):101.
2. Joydeep Chakraborty, Senjuti Sen, **Prithwi Ghosh**, Akansha Jain, Sampa Das. Inhibition of multiple defense responsive pathways by WRKY70 transcription factor enhances susceptibility in chickpea to *Fusarium oxysporum* f. sp. ciceri Race1 (Foc1) infection. **BMC Plant Biol**. 2020 Jul 6;20(1):319.
3. **Prithwi Ghosh**, Katie N. Adolphson, Svetlana N. Yurgel, Michael L. Kahn. *Sinorhizobium medicae* WSM419 genes can improve symbiosis between *Sinorhizobium meliloti* Rm1021 and *Medicago truncatula* Jemalong A17 and with other legumes. **Appl Environ Microbiol**. 2021 Jul 13;87(15): e0300420.
4. Alex B. Benedict, * **Prithwi Ghosh**, * Sameul M. Scott et al. A conserved rhizobial peptidase that interacts with host-derived symbiotic peptides. * Equal contribution. **Sci Rep**. 2021 Jun 3;11(1):11779.
5. Dipali Sadhukhan, **Prithwi Ghosh**, Susanta Ghanta. Spectroscopic Evidence of Chirality in Tetranuclear Cu (II)-Schiff Base Complexes, Catalytic Potential for Aerobic Oxidative Kinetic Resolution of Racemic Benzoin. **Inorganic and Nano-Metal Chemistry**. 2021 51(12) Dec 10:1714-1724.
6. Sourav Roy, **Prithwi Ghosh**, Abhirup Bandyopadhyay, Sankar Basu. Capturing a crucial 'disorder-to-order transition' at the heart of the coronavirus molecular pathology – triggered by highly persistent, interchangeable salt-bridges. **Vaccines**. 2022 Feb 16;10(2):301.
7. Gargi Biswas, Mukherjee D, Nalok Dutta, **Prithwi Ghosh**, Sankar Basu. EnCPdock: a web-interface for direct conjoint comparative analyses of complementarity and binding energetics in inter-protein associations. **J Mol Model**. 2023 Jul 10;29(8):239.
8. **Ghosh P**, Chakraborty J. Exploring the role of symbiotic modifier peptidases in the legume - rhizobium symbiosis. **Arch Microbiol**. 2024 Mar 11;206(4):147.

Publications: Dr. Arpita Chakraborty

1. Bhakat N., Chakraborty A., Datta S.K., Kanp U.K. (2019). Ayurvedic Use of medicinal plants for the treatment of diabetes and menstrual disorder at Narajole Gram Panchayat. International Journal of Integrated Research and Development, Issue-15, (June), Vol.-I, Pp. 238-243. (ISSN: 2278-8670.)
2. Arpita Chakraborty, Jyoti Kumar. Ethnobotanical Studies to Cure Various Diseases in Jhargram District of West Bengal. Interdisciplinary Journal of Contemporary Research. 2019, Vol.6(11). pp.105-114. ISSN:2393-8358.
3. Arpita Chakraborty, Jyoti Kumar. Exclusive Ethnomedicinal Uses of Rheumatism in Jhargram District of West Bengal. The Biobrio. 2021,8(1&2): 586-593. ISSN: 2393-9508.e-ISSN: 2582-4902.

Publications of the Botany Department [2019-2024]

4. Arpita Chakraborty, Moumita Chakraborty. Traditional Application of Some Plants Used to Cure Diabetes in Debra P.S. of Paschim Medinipur District of West Bengal-A Retrospection. *The Biobrio*.2023, 10 (3&4):1048-1053. ISSN: 2393-9508.e-ISSN: 2582-4902.
5. Arpita Chakraborty, Jyoti Kumar. "Plants: A Major Natural Resource for Curing Disease Rheumatism in Paschim Medinipur District of West Bengal- An Overview". *The Journal of Indian Botanical Society*.2024. P-ISSN NO:0019-4468, E-ISSN NO:2455-7218.Indexed in UGC-CARE.

Book Chapters

1. Arpita Chakraborty, Jyoti Kumar. *Ethnobotany, Cultivation and Utilization of Plants*. CSER, Ranchi. *Ethnobotanical Studies to Cure Various Diseases in Paschim Medinipur District of West Bengal*.ISBN-978-93-83583-44-7, pp.227-238.
2. Arpita Chakraborty, Jyoti Kumar, Moumita Chakraborty.2024. *Recent Trends In Environmental Sciences*. Plants: "A Major Natural Resource for Curing Disease Diabetes in Paschim Medinipur District of West Bengal- An Overview." Iterative International Publishers. ISBN: 978-93-5747-642-3. pp.49-62.
- 3.

Publications: Prof Sanjay Kumar Dutta

1. Bhakat, N., Chakraborty, A., Datta, S. and Kanp, U. K. (2019). Ayurvedic use of medicinal plants for the treatment of diabetes and menstrual disorder at Narajole gram panchayat. *International Journal of Integrated Research and Development (WIRD)*, (25), 238-243. ISSN: 2278-8670. UGC listed Journal no. 41601.