

Name: Dr. Dipan Adhikari

Designation: Associate Professor in Botany

Qualifications: M.Sc., Ph.D.



Brief Intro of yours:

I, Dr. Dipan Adhikari, am an Associate Professor of Botany with a focus on Cell and Molecular Biology and Plant Biotechnology. I have successfully completed over 15 years of undergraduate and graduate teaching. As a biological researcher, I have published fifty research papers in various peer-reviewed publications of national and international reputation. My proficiency in genotoxicity assessment in plant and animal cell models has grown over the years. As part of my active research career, I am attending and giving oral presentations at many national and international seminars in addition to working on student projects (at the postgraduate level in Plant Cytogenetics and Molecular Biology).

Current Teaching: Cell Biology, Plant Biotechnology, and Plant Molecular Biology

Research Interests: In order to contribute my expertise in the field of biological research, I am seeking a demanding and growth-oriented research platform that will allow me to fully utilize my skills and knowledge while also allowing me to work both independently and collaboratively. My strengths are diligence, perseverance, commitment, and critical thinking. I'm extremely interested in the field of pollution toxicology and genotoxicity. I have been putting a lot of effort into this field with the intention of conducting research on the development of simple and inexpensive assay methods to clarify the pathophysiological effects of exposure to xenobiotics and to reduce abiotic stress tolerance in both plant and animal systems. In order to better understand the risk management of pollution, I use cellular and biochemical indicators associated with both aquatic and terrestrial ecosystems, paying particular attention to the constantly growing field of molecular ecotoxicology research. In order to create models for forthcoming medications, food additives, and supplements for upcoming nutraceuticals, pharmaceuticals, and cosmetics, I also do research in the fields of phytopharmacology and toxicity of plant wastes. My study on the alleopathic qualities of plants and their potential as future medications has been published on a regular basis.

Ph.d Supervision: Supervised Mr. Ram Bera, M.Pharm. (Dept of Pharmaceutical Technology, Jadavpur University, Kolkata-700032, India) for Ph.D. thesis titled " **IN VITRO AND IN VIVO PHARMACOKINETIC AND DRUG LIKE PROPERTIES EVALUATION OF ANDROGRAPHOLIDE AND GYMNEMAGENIN.** Ph.d. thesis submitted on 22/07/16 and awarded on 21/12/2017.

Awards/Recognitions/ Invited Talk:

1. Awarded as **Outstanding Reviewer for the year 2014** for "The Journal of Ethnopharmacology" ELSIVIER, Netherlands.
2. Awarded **Young Researcher Award, 2020** By Institute of Scholars (InSc, unit of SDPL, Bangaluru, India, 560091).
3. Awarded Best Young Scientist Award (Global Academic Research Excellence Award (GAREA-2021, Science Tech Institute, Lucknow on July 31st 2021).
4. Awarded as the First Position award for outstanding oral Presentation in the group of Academician/Profession Category at Khulna University, Bangladesh, on 19-20th October, 2022.
5. **Selected as a member of Asian Council of Science Editor, on July 21, 2021, Membership No: 9111838.** By Asian Council of Science Editors.
6. Nominated as invited Permanent Reviewer in the International Journal "Archives of Social Sciences and Humanities", London (Polish Academy of Social Science and Humanities PASSH, June 2022).

7. Nominated and Selected by CPCSEA, Ministry of Environment, GOI as a member (Scientist from outside the Institute) of IAEC of Bengal School of Technology, (Dept of Pharmacy), Sugandha, Hoohgly, -712102, West Bengal vide letter dated: 18/07/2014.
8. Joined the team of **Associate Editors International Journal of Botany Studies** (UGC approved Journal, ISSN: 2455-541X).
9. Selected as a member of Editorial Board of **Innovare Journal of Medical Sciences of Innovare Academic Sciences**, INNOVARE ACADEMIC SCIENCES PRIVATE LIMITED B-11, HOUSING COLONY, IN FORNT OF BIMA HOSPITAL, MANDSAUR - 458001, MADHYA PRADESH, www.innovareacademics.in.
10. Selected for the Editorial Member for **Mintage journal of pharmaceutical and medical sciences**. ISSN NO - 2320-3315, www.mintagejournals.com
11. Selected for the Editor of South American Journal of Academic Research (E-INTERNATIONAL JOURNALS OF ACADEMIC & SCIENTIFIC RESEARCH)
12. Selected for the Editorial Group Member of Food and Agriculture Spectrum Journal,
13. Editorial Board Member of **International Journal of Agriculture and Nutrition**,
DOI: <https://dx.doi.org/10.33545/26646064>
14. Editorial Board Member of International Journal of Botany and Horticulture Research.
15. Editorial Board Member of International Journal of Agriculture and Plant Science.
16. Editorial board Member of International Journal of Agro Nutrifood Practices.
17. Associate Editor of International Journal of Botany Studies. ISSN: 2455-541X.
18. Assistant Editor of International Journal of Food Science and Nutrition.
19. Associate Editor Innovations in Agriculture. ISSN: 2617-1295.
20. Associate Editor in Agricultural Technology and Plant Sciences. ISSN: 2640-6586.

Acted as Evaluator and Resource person at 26th National Children's Science Congress-2018, a programme of Department of Science and Technology, Government of India, District level Congress, Hooghly West Bengal, Focal Theme- Science, Technology and Innovation for a Clean Green and Healthy Nation.

Selected Publications:

1. D. Adhikari, S. Samanta, A. Roy, A. Dutta, J. Vedasiromoni and T. Sen, **"In vitro hemolysis and lipid peroxidation inducing activity of the tentacle extract of the sea anemone (*Paracondylactis indicus* Dave.) on rat erythrocytes"**, Indian Journal of Pharmacology,39(3),155-159, 2007. Impact Factor® as reported in the 2018 Journal Citation Reports® (Clarivate Analytics, 2019): **1.04**
2. **"Pharmacological studies on Indian Black Tea (leaf variety) in acute and chronic inflammatory conditions"** Dilip K Roy, K.T. Mani Senthil Kumar, Zothanpuia, Sanmoy Karmakar, Siddhartha Pal, Samir K Samanta, **Dipan Adhikari** and Tuhinadri Sen, [Phytother Res.](#) 2008 Jun;22(6):814-9. IF: 3.092 (2016)
3. **"Anti-inflammatory activity of *Acanthus illicifolius*"** Mani Senthil Kumar K.T., Gorain B., Roy D.K., Samanta S.K., Pal. M., Biswas P., Roy A., **Adhikari D.**, Karmakar S. and Sen. T. **J Ethnopharmacol.** 2008 Oct 30; 120(1):7-12. IF: 3.414
4. **Pharmacological and Biochemical Studies on *Telescopium telescopium* – a marine mollusk from the Mangrove regions.** S. Samanta, **D. Adhikari**, A. Dutta, A. Roy, K. T. Manisenthil, D. Roy, J. R. Vedasiromoni & T. Sen. ***Oriental Pharmacy and Experimental Medicine (OPEM)***, 2008,8(4), 386-394.ISSN: 1598-2386 (print version), ISSN: 2211-1069 (electronic version)
5. **Effect of 2-4-dicholorphenol on mycelial growth and extracellular enzyme production by *Pleurotus* sp.** Das N., Adhikari D., Naskar S., 2010, B. N. Seal Jr. of Sc. Vol 3, 82-84 (ISSN # 0975-5624).
6. **"Experimental Evidence for presence of a Growth Regulating Extracellular Laccase in Some *Pleurotus* species"** 2011. Nirmalendu Das, Saikat Naskar, Pratik Chowdhury, Birja Paswan and **Dipan Adhikari**. ***Research Journal of Microbiology*** (ISSN: 1816-4935). Academic Journals Inc. USA, Science Alert. IF:0.19
7. **"Intellectual Property Rights to explore Biodiversity Issues: Present inputs, current debates and Future Prospects"**, 2011. Sabuj Kumar Choudhuri and Dipan Adhikari. Proceedings of UGC sponsored National Seminar on "Emerging Trends in Plant Science. 73-83. ISBN-978-93-80673-52-3.

8. **Gastro-Protective Role of *Acanthus ilicifolius*- A Study to Unravel the Underlying Mechanism of Anti-Ulcer Activity.** K. T. Mani SENTHIL KUMAR, Zothan PUIA, Samir K SAMANTA , Rajiv BARIK1, Arnab DUTTA, Bapi GORAIN, Dilip K. ROY, **Dipan ADHIKARI**, Sanmoy KARMAKAR and Tuhinadri SEN. **Scientia Pharmaceutica**. 2012, **80:701-717**. ISSN 2218-0532; CODEN: SCPHA4; ISSN 0036-8709 for printed edition. It is the journal of the [Austrian Pharmaceutical Society \(Österreichische Pharmazeutische Gesellschaft, ÖPhG\)](#) and it is published quarterly online by MDPI (from Volume 84 Issue 3 - 2016) and in print by the Austrian Pharmacists' Publishing House (Österreichischer Apothekerverlag). IF:m 1.30 Scopus.
9. **Structural features and antioxidant capacity of polysaccharides from *Turbinaria ornate*.** 2013. Tuhin Ghosh, Sudipto Saha, Debnyayan Roy, **Dipan Adhikari** and Suman Mukherjee. *B. N. Seal Journal of Science*, 5(1): 19-34, (ISSN # 0975-5624).
10. **Cellular and metabolic response of haemocyte of *Lobothelphusa sp* invaded with wound.** 2013. Sutapa Goswami, Arpita Mukherjee, Subrata Saha, Tanusree Ghosh, Debnarayan Roy, Tuhin Ghosh, Dipan Adhikari and Suman Mukherjee. *B. N. Seal Journal of Science*, 5(1): 100-114, (ISSN # 0975-5624).
11. **Validation of plant bioassays with special reference to *Allium cepa* L test to screen and evaluate different genetic endpoints on xenobiotic exposure.** Dipan Adhikari¹ , Suman Mukherjee², Tuhin Ghosh³ and Dwaipayana Sinha⁴ (2014). Seminar proceedings of State level seminar on Impact of Pollution:Assessment and Awareness, Sponsored b DST (Government of West Bengal). Pp-120-136. ISBN: 978-81-921083-8-4.
12. **Zooceuticals- Promising Biomolecules for Synthetic Simulation.** Dipan Adhikari¹, Suman Mukherjee and Tuhin Ghosh, (2014). *Manan*, 1(2). Pp-11-18, ISSN: 2348-3849.
13. **Structural Features and Biological Activities of Water Extracted Polysaccharides Obtained from *Adhatoda vasica*.** 2014. Tuhin Ghosh, Dipan Adhikari, Suman Mukherjee, And Debnarayan Roy. *B. N. Seal Journal of Science*, 6(1): 82--98, (ISSN # 0975-5624).
14. **Characterization of Biochemical Profile of Hepatitis B Patient** (2014).Suman Mukherjee, Debnarayan Roy, Tuhin Ghosh and Dipan Adhikari. *B. N. Seal Journal of Science*, 6(1): 82--98, (ISSN # 0975-5624).
15. **Molecular Markers in Plant Based Bioassays for the Detection of Levels of Endpoints to Probe of Aquatic Genotoxicity,** Dipan Adhikari and Sharmila Pal. [Journal of Environment and Sociobiology](#), Vol 12, No 2 (2015), Pagination: 143-162 Online ISSN: 2454-2601, Print ISSN: 0973-0834.
16. **Antioxidant activity and structural features of *Cinnamomum Zeylanicum*,** Tuhin Ghosh, Ankita Basu, Dipan Adhikari, Debnarayan Roy, Achintya Kumar Pal, **3 Biotech DOI 10.1007/s13205-015-0296-3**, ISSN: 2190-572X (Print) 2190-5738 (Online). Received: 29 October 2014 / Accepted: 6 March 2015. IF: 1.706 (2019)
17. **IMPAIRMENT OF HAEMATOLOGICAL PROFILE OF *CHANNA PUNCTATUS* EXPOSED TO SODIUM ARSENITE.** Suman Mukherjee*, Debnarayan Ray, Dipan Adhikari and Tuhin Ghosh, *Received: 4th Mar-2015 Revised: 30th Mar-2015 Accepted: 30th Mar-2015*, Volume-6, Issue-2, April-June-2015 **Coden IJABFP-CAS-USA** Copyrights@2015, *International Journal of Applied Biology and Pharmaceutical Technology*, ISSN: 0976-4550.
18. ***Allium sativum*: From Culinary to Cure.** Dipan Adhikari. *AJHMC: 9 (1), 14-23. (2014)*. (Academic Journal of Hooghly Mohsin College: A Peer Reviewed Interdisciplinary Journal). ISSN: 0973-6212.
19. **Biotechnology, Gene Patenting, vis-à-vis Bio-Piracy of Indigenous Germplasm: Unveiling the Pandora's Box.** Dipan Adhikari. *Suprayaga: An interdisciplinary peer-reviewed publication of UGC Sponsored National Seminar Special Volume*. 5: 271-281 (2015) ISBN: 978-81-924236-4-7.
20. **Screening of Anti-oxidant Capacity of Selected Plant Extracts.** Tuhin Ghosh, Soudam Sain, Dipan Adhikari, Debnarayan Roy, Suman Mukherjee. *B. N. Seal Journal of Science*, 7(1) (2015). 47-60, (ISSN # 0975-5624).
21. **Biochemical attributes in Malarial Infection.** Suman Mukherjee, Debnarayan Roy, Tuhin Ghosh and Dipan Adhikari. *B. N. Seal Journal of Science*, 7(1) (2015). 47-60, (ISSN # 0975-5624).
22. **In vitro Metabolic Stability and Permeability of Gymnemagenin and its In vivo Pharmacokinetic Correlation in Rats- A Pilot Study.** Ram Mohan Bera, Amit Kundu, Tuhinadri Sen, Dipan Adhikari and Sanmoy Karmakar. *Planta Medica* 2016; 82:544-550. DOI 10.1055/s-0042-101032, IF: 2.342
23. **Biotic and Abiotic Stressors In Plant Molecular Breeding vis-à-vis Sustainable Molecular Farming Strategies For Food Security: Threats, Opportunities and Challenges Ahead in Indian Perspectives.** Dipan Adhikari, Suman Mukherjee, Tuhin Ghosh and Debnarayan Roy. *International Journal of Advance Research*

24. **Human Cytochrome P450 Enzyme Modulation by *Gymnema sylvestre* : A Predictive Safety Evaluation by LC-MS/MS.** Bera Rammohan, Karmakar Samit, Das Chinmoy, Saha Arup, Kundu Amit, Sarkar Ratul, Karmakar Sanmoy, Adhikari Dipan, Sen Tuhinadri. **Pharmacognosy Magazine**, Jul-Sep 2016, Vol 12, Issue 47 (Supplement 4). ISSN : 0973-1296. IF: 1.525.
25. **Marine Zooceuticals - Synergy of Zooology & Pharmaceuticals, 2016:** Dipan Adhikari and Subhabrata Ray, **Pharmawave (An International Journal of Pharmaceutical Technology)**, Vol 9, ISSN: 2249-3425.
26. **THE VULNERABLE SUNDERBAN ECOSYSTEM: PROBLEMS AHEAD FROM ECOLOGICAL AND BIOLOGICAL PERSPECTIVES.** Dipan Adhikari. **J. Environ. & Sociobiol.** : 14(2) : 161-170, 2017, *Impact Factor* : 0.342 (2015), Received : 10 May, 2017 / Accepted : 28 June, 2017 / Published Online : December, 2017, Print : ISSN : 0973-0834, Online : ISSN : 2454-2601.
27. **Antioxidant activity of Strawberry fruit and Senna Leaf extract.**2017, Tuhin Ghosh, Nabaneeta Roy, Debnarayan Roy, Suman Mukherjee and Dipan Adhikari. **A Comprehensive Study of Science, Santal Bidroha Sardha Satabarshiki Mahavidyala.** ISBN: 978-81-930138-4-7, Edition 1.
28. **Antioxidant Properties of Kalanche blossfeldiana-a focus on Erythrocyte Membrane Stability and Cytoprotection-** Ratul Sarkar, A Kumar, L. Divya, S K Samanta, Dipan Adhikari, S Karmakar and T. Sen (2017). *Current Traditional Medicine*, 3;51-58.
29. **KARYOLOGICAL STUDIES ON VEGETATIVE MYCELIUM OF *LENTINUS SQUARRULOSUS*: A FUNGAL SPECIES FROM THE COOCH BHEAR DISTRICT (DOOARS REGION) OF WEST BENGAL, INDIA ,** Dipan Adhikari* and Rahul Ghosh,
30. **INTERNATIONAL JOURNAL OF HIGHER EDUCATION AND RESEARCH ,** IJHER, Vol., 8(2), 2018, 168-179. www.ijher.com , (ISSN 2277 260X).
31. **In vitro Pro-inflammatory Activity and Associated Pharmacological Activities of *Paracondylactis indicus* Dave. Nematocyst Venom.** Dipan Adhikari and Sanmoy Karmakar, 2018, *Pharmacologia*, 9: 114-121. (ISSN 2044-4648) DOI: [10.5567/pharmacologia.2018.114.121](https://doi.org/10.5567/pharmacologia.2018.114.121) ,URL: <https://scialert.net/abstract/?doi=pharmacologia.2018.114.121>.
32. **Evaluation of Toxicity of Chlorpyrifos on the Haemocyte of *Pila globosa*.** Suman Mukherjee, Tanushree Bose, Debnarayan Ray and Dipan Adhikari, **J. Biol. Chem. Research Volume 35 (1) 2018 Pages No. 262-272. Journal Impact Factor: 4.275, Society for Advancement of Sciences®) ISSN 0970-4973 (Print) | ISSN 2319-3077 (Online/Electronic).**
33. **Elucidation of Basidial cytology and Karyodynamics during early sporophore formation of Rice Straw Mushroom (*Volvoriella volvacea* (Bull.ex. Fr.) Sing.) Growing at Natural Habitat.** Dipan Adhikari and Rahul Ghosh. 2019. *American Journal of Biological Sciences*. 1(1):1-13.ISSN: 2688-1055
34. **Augmentation of Mitodepressive and cytogenetic effects of Lead upon Acute exposure on Grass Pea (*Lathyrus sativus* L.) root tip cells.** Dipan Adhikari. 2019. *American Journal of Biological Sciences*. 1(1):14-22.ISSN: 2688-1055.
35. **“ASSESSMENT OF GUT HELMINTH OF BLACK BENGAL GOAT SLAUGHTERED AT KOLKATA MARKET, WEST BENGAL, INDIA”** SUMAN MUKHERJEE1*, INDRANI BISWASI AND DIPAN ADHIKARI2, *UPJOZ*, 41(10): 77-85, 2020, ISSN: 0256-971X (P).
36. **Chemical Profiling of Polysaccharides Present in Peels of *Citrus limetta* and Bioassay based Screening of in vitro Antioxidant Activities,** DIPAN ADHIKARI1, and TUHIN GHOSH2,*, *Asian Journal of Chemistry*; Vol. 32, No. 9 (2020), 2308-2314, <https://doi.org/10.14233/ajchem.2020.22798>.
37. **Chromosomal Studies in Higher Fungi: Challenges for Cytological Investigation,** JETIR1905T58 *Journal of Emerging Technologies and Innovative Research (JETIR)* www.jetir.org 1808, May 2019, Volume 6, Issue 5 www.jetir.org (ISSN-2349-5162).
38. **EVALUATION OF ACUTE TOXICITY STUDIES ON COPPER –INDUCED OXIDATIVE STRESS IN *Lathyrus sativus* L., (variety Ratan) GERMINATING SEEDS: A BIOMARKER BASED RISK ASSESSMENT.**Tuhin Ghosh¹, Suman Mukherjee² and Dipan Adhikari³, *Journal of Advance Scientific Research*, 2020, 11(4), 243-254, ISSN: 0976-9595.
39. **Structural insight and in vitro Free Radical Scavenging Capacity of Arabinogalactan Polysaccharides from peels of *Punica granatum*.** DIPAN ADHIKARI1, and TUHIN GHOSH2,*, *Asian Journal of Chemistry*; Vol. 33, No. 4 (2021), 873-880, <https://doi.org/10.14233/ajchem.2021.23046>.
40. **Chromium induces genotoxicity in root tip cells of Grass Pea (*Lathyrus sativus* L., Variety Nirmal): A ROS mediated acute toxicity study.** Dipan Adhikari (2021) *Journal of Stress Physiology and*

- Biochemistry, 17(2): 2021, pp: 98-120, ISSN: 1997-0838.
41. **A STUDY ON SEROBIOCHEMICAL PROFILE IN ORANGE G INDUCED MALE RATS**". Maitrayee Banerjee, Sk. Ibnes Sahi Mondal, Asis Pandit, Dipan Adhikari and Nirmal Pradhan. European Journal of Biomedical and Pharmaceutical sciences , <http://www.ejbps.com>, 2023, Volume 10, Issue 2, 233-238., ISSN 2349-8870, SJIF Impact Factor 6.044.
 42. **Role of epigenetics and the high-throughput sensing techniques to detect stress adaptation mechanisms in crop plants: A mini review.** Pronomita Das and Dipan Adhikari, Innovations in Agriculture 2023, 6:01-07, www.innovationsagriculture.com ISSN: 2617-1295 DOI: <https://doi.org/10.25081/ia.2023-1986>.
 43. **A Comprehensive Comparative Study on *Cascabelathevetia* (L.) Lippold, Seed Aqueous Extract-mediated Escalation of Abiotic Stress and Cellular Genotoxicity: Insights from Multivariate Allelochemical Analysis vis-a-vis Employment of Plant Bioassays (*Lathyrus sativus* L., and *Allium sativum* L., germinating root tip cells).** Dipan Adhikari*1, Tuhing Ghosh 2 and Rahul Ghosh3 *Journal of Stress Physiology & Biochemistry*, Vol. 19, No. 4, 2023, pp. 178-202 ISSN 1997-0838. Original Text Copyright © 2023 by Adhikari, Ghosh and Ghosh.
 44. **Plant Heat Shock Proteins - Origin, Evolution and Mechanism of Action for Biotechnological Implications in Crop Improvement**, Dipan Adhikari. International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET). |e-ISSN: 2319-8753, p-ISSN: 2347-6710| www.ijirset.com | Impact Factor: 8.423|, Volume 13, Issue 3, March 2024, DOI:10.15680/IJIRSET.2024.1303246 |
 45. **Evaluation of salinity-mediated end-point cytogenotoxicity in Germinating Roots of *Lathyrus sativus* L., Variety Mahatora.: Bio-assay guided biomarker studies.** Adhikari D., Ghosh R., and Dig S, 2024. *Innovations in Agriculture 7*: 1–17 doi: 10.3897/ia.2024.124263.
 46. **Biotic and Abiotic Stresses and Reactive Oxygen Species (ROS)-Mediated Signalling in Higher Plants: Regulatory Mediators and their Mechanism of Actions**, Adhikari D., *International Journal of Trend in Scientific Research and Development (IJTSRD) @ www.ijtsrd.com* eISSN: 2456-6470.
 47. **Agronano-mediated applications for the alleviation of stress and boosting of crop health for the future of smart high-yield agriculture.** Biological Sciences. Bandopdhyay, D and Adhikari, D. , 2024, Vol. 04(03), Page 681-691, DOI: <https://doi.org/10.55006/biolsciences.2024.4304>.
 48. **Insinuations of *Cascabela thevetia* (L.) Lippold Seed Aqueous Extract-mediated Genotoxicity in *Lathyrus sativus* root tip cells and nucleolus, *Chana punctatus*, and *Gallus gallus* RBC: A Comparative Biomarker-Based Toxicological Bioassay.**, Adhikari, D., Parai, P and Pal S. *Biomedical Studies and Clinical Evaluations*. vol 1(3). 1-13. DOI: 10.9567/ISSN.2024/WSJ.97.
 49. **EFFECT OF POTASSIUM DICHROMATE (K₂Cr₂O₇) ON INTESTINAL MOTILITY OF MALE RATS – AN IN VITRO STUDY.** Riya Mondal, Dipan Adhikari, Tithankar Pradhan, Priya Ghosh, Jeet Datta and Nirmal Pradhan. *WORLD JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES*. 13(12), 1464-1480. ISSN 2278 – 4357.
 50. **Nanotechnology: A double-edged sword for future smart agriculture and phytopathological management in plants.** Adhikari, D. , Khatun, P. ., Koley, S. ., Sen, M. ., & Ghosh, S. K. . (2024). *Agriculture and Food Sciences Research*, 11(2), 203–221. <https://doi.org/10.20448/aesr.v11i2.6253>.

Edited Books:

Title of the Book: Futuristic Trends in Biotechnology, Edition: Volume 2, Book 27, 2022, IIP Proceedings, ISBN: 978-93-95632-88-1. **IMPRINT:** I I P Iterative International Publishers. **Publisher, Printed at & Distribution by:** Selfypage Developers Pvt. Ltd., Pushpagiri Complex, Beside SBI Housing Board, K.M. Road Chikkamagaluru, Karnataka. Tel.: +91-8861518868 E-mail: info@iiponline.org

Book Chapters Published.

1. **Novel Fungal Enzymes in Environmental Remediation:** Dipan Adhikari, Nirmalendu Das and Saikat Naskar, in *Environmental Biotechnology and Application*, Discovery Publishing House Pvt. Ltd (First Edition: 2013), ISBN: 978-93-5056-262-8.
2. **Global climatic change has its impact on Indian Wildlife and socio-biological life: Challenges and mitigation strategies to restore biodiversity from urban ecological perspectives and beyond:** Dipan Adhikari, *Cross Cutting Research in Social Sciences (2019): ISBN: 978-81-939363-0-6*, UGC-Human Resource Development Centre, University of Calcutta, editors: Dr. Sabuj Kumar Choudhuri, Dr. Pupalika Bhattacharya Mitra, Dept of Library and Information Science, University of Calcutta.
3. **Climate Changes vis-à-vis Environmental Actions and Forest Management with Special Reference to Sunderban Biosphere: Measurements to protect Bio-resources From Socio-political and Biological Perspective to Meet a Better Future.** Dipan Adhikari, Suman Mukherjee and Tuhin Ghosh. *Cross Cutting Research in Social Sciences (2019): ISBN: 978-81-939363-0-6*, UGC-Human Resource

Development Centre, University of Calcutta, editors: Dr. Sabuj Kumar Choudhuri, Dr. Pubalika Bhattacharya Mitra, Dept of Library and Information Science, University of Calcutta.

4. Tuhin Ghosh and Dipan Adhikari, 2021. **ROS-Mediated Genome Alterations at Cellular Microenvironment during Cancer Metastasis: A Curtain Raiser**, , *Springer Nature Singapore Pte Ltd. 2021, S. Chakraborti et al. (eds.), Handbook of Oxidative Stress in Cancer: Cancer: Mechanistic, Aspects*, https://doi.org/10.1007/978-981-15-4501-6_77-1.
5. **A Curtain Raiser on Natural Supplements Being Targeted Choice of Surveillance As Potential Anti-Viral Drugs : Neutraceutical Supplementations Vis-à-Vis Immune Boosters**, Dipan Adhikari, *Published by ABS Books Publisher and Exporter*, B-21, Ved and Shiv Colony, Budh Vihar, Phase-2, Delhi – 110086 , in Hand Book of Agriculture & Plant Sciences **ISBN : 978-93-91002-25-1, Copyright : Editor Edition 2021.**
6. Dipan Adhikari. 2024. **Versatility Of Grass Pea (Lathyrus Sativus L.,) As An Excellent Cytogenetic Model To Evaluate Genotoxic Stress Using Root Tip Ana-Telophase Cytology.** “Recent Advances in the Field of Life Sciences - Vol 2” ISBN: 978-81-957386-2-5. Sai Publication Sai College Sector-6, Bhilai, Dist Durg (Chhattisgarh) Copyright©2024 Sai Publication.
7. Dipayon Bandopadhyay and Dipan Adhikari. Futuristic Trends in Biotechnology e-ISBN: 978-93-6252-220-7 IIP Series, Volume 3, Book 24 , Part 1, Chapter 9 **ORCHID BIODIVERSITY IN DARJEELING DISTRICT OF WEST-BENGAL (EASTERN HIMALAYA) AND IT'S BIOTECHNOLOGICAL APPROACH FOR GENETIC IMPROVEMENTS. 2024**

Participation in Seminars / Conferences / Workshops:

Title	Author	Conference	Year	Page
Effects of heavy Metal chromium on Germinating Root Tips of Grass Pea (Lathyrus Sativus, L.,) A potential Threat for Commercial Pulse Crops	Dipan Adhikari	Three Day International Virtual Conference on Impact of Chemical Disasters on Biota (ICDB), Andhra University, Visakhapattanam, India, in association with Andhra Pradesh Academy of Sciences,	24-26 th July 2020	OP-23 , Page 33
Exploration of Plant-based assays for the detection and estimation of aquatic genotoxins in natural environment	Dipan Adhikari	National Conference on water conservation and harvesting: Focusing Biodiversity issues and	February 8, 2020	21

		Management, SEBA in collaboration with WB biodiversity board, WB pollution control board and Ballygunj Society for Environment and Development		
Assessment of Cytogenotoxicity of permitted and non-permitted food colorants (Azo dyes) in <i>Allium cepa</i> L. root tip as model system.	Dipan Adhikari and Rahul Ghosh	4 th Regional Science and Technology Congress (Western Region), West Bengal, The University of Burdawan	2019	37
Global climatic effects on loss of Indian Floral biodiversity: with special reference to arid and semiarid regions with mitigation strategies to overcome biodiversity conservation for lower cryptogams to higher angiosperms.	Dr. Dipan Adhikari, , and Dr. Sarmila Pal,	One-day National Seminar on Global Warming and Biodiversity Conservation, Dept of Zoology, Raja Peary Mohan College in collaboration with SEBA, Sponsored by West Bengal Biodiversity Board	02.08.2018	
Diversity of dominant Basidiomycetean fungi prevalent in Cooch Behar District (Terai and Dooars Region): Note on chromosomal and karyodynamic diversity	Dipan Adhikari	DBT-GoWB sponsored Two day National Seminar on "Contemporary Era of Sciences: Biological and Chemical Interface"	March 26-27, 2019	13
Studies on Augmentation of cytotenotoxicity and genome loss by Cadmium on germinating seeds of <i>Lathyrus sativus</i> L. (Variety Ratan): Direct interplay of ROS	Dipan Adhikari and Rahul Ghosh	National Seminar on "Advent of Biotechnology in Life Processes" Dept fo Biotechnology, The University of Burdawan	22-23 March, 2018	Abstract no-PAB-05
<i>Cytotoxic and genotoxic effects of heavy metal Cadmium upon acute exposure on Lathyrus sativus L.(Variety Nirmal)</i>	Dipan Adhikari, • Ratul Ghosh, and Papiya Halder	2nd Regional Science and Technology Congress, 2017, At Southern Region, Kalyani University	December 2017	30
<i>Cytotoxic and genotoxic effects of heavy metal lead upon acute exposure on Lathyrus sativus L.</i>	Dipan Adhikari, • Papiya Halder, Nirmal Kr. Pradhan, Biswajit De	24 th West Bengal State Science and Technology Congress, 2017,	28 th -1 st March, 2017	18
<i>Assessment of Spermatogenic Activity of Orange G induced male rats</i>	Nirmal Kr. • Pradhan, Tanima Roy, Dipan Adhikari, Indrani Chakraborty and Nema Masanta	1st Regional Science and Technology Congress 2016, Presidency Division, West Bengal, At National Institute of Technical Teachers' Training and Research	13-14 November 2016	398

Plant Genome Biology in light of modern omics technologies	Dipan Adhikari ,• Sanchita Ghoshal and Nirmal Kr. Pradhan	1st Regional Science and Technology Congress 2016, Presidency Division, West Bengal, At National Institute of Technical Teachers' Training and Research	13-14 November 2016	51
<i>Cytotoxic and genotoxic effects of heavy metal lead upon acute exposure on Lathyrus sativus L.</i>	Dipan Adhikari, • Papiya Haldar, Nirmal Kr. Pradhan, Biswajit De	1st Regional Science and Technology Congress 2016, Presidency Division, West Bengal, At National Institute of Technical Teachers' Training and Research	13-14 November 2016	52, Outstandi ng Oral Paper Award
A comparative account on cytotoxic and genotoxic augmentations by two widely used pesticides (Phorate and Quinalphos) on two plant-based bioassay (<i>Allium cepa</i> and <i>Lathyrus sativus L.</i>) systems.	Dipan Adhikari	UGC sponsored National Seminar on Plants, The Natural Wonder: issues and concern	2016, October 4-5	22
Karyomorphological studies on Polysomaty in <i>Chlorophytum laxum</i> R. Br. And <i>Chlorophytum comosum</i> (Thunb) Jacques. (Asparagaceae)	Dipan Adhikari, Rajat Roy, Kalyan Kr. Dey, Nirmal Pradhan, Sarmila Pal, Suman Mukherjee, and Tuhin Ghosh	23rd West Bengal State Science and Technology Congress, 2016, Presidency University	2016, 28- 29th February	172
Effect of turmeric powder supplementation on lipid profile of Pre-menopausal and Post menopausal Women.	Arnab das, Nirmal Pradhan, Ibnes sahi Mondal, Indrani Chakraborty, sarmishtha Chanda, Kuheli Pal, Mousumi Sikdar, Dipan Adhikari, Nimai Masanta	23rd West Bengal State Science and Technology Congress, 2016, Presidency University	2016, 28- 29th February	276
Telomere and telomerase interaction in human ovarian carcinoma	Suman Mukherjee and Dipan Adhikari	One day International Seminar on "Frontiers in Translational and Regenerative Biology, organized by Immunology and Regenerative Medicine Research Unit, Dept of Zoology, University of Calcutta,	31 st January 2016	Poster 37
Marine Bio-actives as potential resources for biomedical and regenerative medicinal applications	Dipan Adhikari, Suman Mukherjee and Tuhin Ghosh	One day International Seminar on "Frontiers in Translational and Regenerative Biology, organized by Immunology and Regenerative Medicine Research Unit, Dept of	31 st January 2016,	Poster 51

		Zoology, University of Calcutta		
Biotechnology, Gene Patenting vis-à-vis bio piracy of Indigenous Germplasm: Unveiling the Pandora's Box	Dipan Adhikari	UGC Sponsored National Seminar organized by Dept of Commerce (UG & PG) and Dept of Economics, Hooghly Mohsin College	2015	271
Molecular Markers in Plant Based Bioassays for the detection of levels of endpoints to probe of aquatic genotoxicity	Dipan Adhikari and Sharmila Pal	National Seminar on Aquaresources: Care and Concern, organized by SEBA in collaboration with ENVIS centre on Faunal Diversity, ZSI and West Bengal Biodiversity Board	14 th February, 2015	13 Winner of 1 st Prize in the oral presentation Category
Water hyacinth- a remedial measure to combat threats of sewage fed ponds and aquaculture	Sarmila Pal and Dipan Adhikari	National Seminar on Aquaresources: Care and Concern, organized by SEBA in collaboration with ENVIS centre on Faunal Diversity, ZSI and West Bengal Biodiversity Board	14 th February, 2015	38, Poster presentation

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Other Information:

Creative Writing

The Crowning Glory: Short Story selected for the 2013 New Asian Writing Short Story Anthology, <http://www.new-asian-writing.com>. 13/10/2013.

Written Practical Lab Manual of the Teachers Training Programme for Class XI and XII, Biological Science Botany, 2017. Studies on Cell Division, Mitosis and Meiosis.

Links to Teaching/other resources :

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