

Faculty particulars of Dr. Arnab Kumar De



Name : *ARNAB KUMAR DE (AD)*

Highest Degree : *M.Sc., Ph.D.*

Designation : *State-Aided College Teacher (Category-1)*

Teaching Experience : *UG- 7 Years+*

Specialization : *Plant Physiology, Biochemistry and Molecular Biology*

Research Gate Link : *https://www.researchgate.net/profile/Arnab_De6*

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Academic Membership

- ❖ “BOTANICAL SOCIETY OF BENGAL” – 15/06/2016 – Till Date,
- ❖ “SOCIAL ENVIRONMENTAL AND BIOLOGICAL ASSOCIATION (SEBA)” – 26/07/2017 – Till Date,
- ❖ “SOCIETY OF BIOTECHNOLOGY AND BIOINFORMATICS” – 16/08/2017 – Till Date.
- ❖ “ACADEMY OF PLANT SCIENCES OF INDIA” – 24/12/2019 – 24/12/2024

Research interest

Plant Physiology, Biochemistry & Molecular Biology, encompassing plant transformation studies and gene regulation for physiological processes under stressful conditions in plants especially in non-angiospermic species.

Awards Received

- ✚ “*Excellence Award*” From SURENDRANATH COLLEGE, C.U. During B.Sc (Hons.) In BOTANY.
- ✚ “**3rd Prize**” for Poster Presentation In “National Seminar On Biotechnology In Sustainable Development” *Organized By* Dept. of Biotechnology (B.U), Recognized by DBT, Govt. Of India.
- ✚ “**Best Paper Award**” In “International Conference on *Climate change and its Implications on Crop Production and Food Security*, *Organized By*- Mahima Research Foundation and Social Welfare, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi. (Recognized by DBT, ICAR, DST, MAFW & NABARD)

Publications (Selected)

1. **Arnab Kumar De**, Arijit Ghosh, Debabrata Dolui, Indraneel Saha, Malay Kumar Adak
2,4-D Hyper Accumulation Induced Cellular Responses of *Azolla pinnata* R. Br. to Sustain Herbicidal Stress; **Phyton-International Journal of Experimental Botany, Tech Science Press (Scopus)** (2020); ***Vol.89, No.4, 2020, pp.999-1017, doi:10.32604/phyton.2020.010828***
2. **Arnab Kumar De**, Arijit Ghosh, Kankana Biswas, M.K. Adak; Moderation of physiological responses in rice plants with *Azolla* under 2,4-Dichlorophenoxy acetic acid stress; **(2018) Molecular Biology Reports, Springer: <https://doi.org/10.1007/s11033-018-4443-x>**
3. **Arnab Kumar De**, Arijit Ghosh, Subhas Chandra Debnath, Bipul Sarkar, Indraneel Saha, Malay Kumar Adak. Modulation of physiological responses with TiO₂ nano-particle in

Azolla pinnata R.Br. under 2,4-D toxicity; **Molecular Biology Reports, Springer (2018)**.
<https://doi.org/10.1007/s11033-018-4203-y>

4. **Arnab Kumar De**, Indraneel Saha, Bipul Sarkar, Narottam Dey and M.K.Adak. “[*Azolla pinnata* R.Br.:a fern species that demonstrates satisfactory in-vitro anti-oxidation under herbicidal toxicity](#)”. **Annals of Tropical Research**; 40(1):18-34 (2018).
<https://doi.org/10.32945/atr40110.2018>
5. **Arnab Kumar De**, Bipul Sarkar, Malay Kumar Adak (2017): Physiological explanation of herbicide tolerance in *Azolla pinnata* R.Br. **Annals of Agrarian Science, Elsevier**. [Received 5 April 2017](#), Accepted 25 May 2017. <http://dx.doi.org/10.1016/j.aasci.2017.05.021>.
6. **De A K**, Dey N, Adak MK (2016) Some Physiological Insights of 2,4-D Sensitivity in an Aquatic Fern: *Azolla pinnata* R.Br. **Journal of Biotechnology and Biomaterials; (2155-952X)** 6: 235. doi:10.4172/2155-952X.1000235
7. **Arnab Kumar De**, Narottam Dey and Malay Kumar Adak (2016): Bio indices for 2,4-D sensitivity between two plant species: *Azolla pinnata* R.Br. and *Vernonia cinerea* L. with their cellular responses; Received: 13 May 2016/Revised: 12 August 2016/Accepted: 16 August 2016, Prof. H.S. Srivastava Foundation for Science and Society 2016; **Physiology and Molecular Biology of Plants, Springer**; DOI 10.1007/s12298-016-0375-x
8. **Arnab Kumar De**, Narottam Dey, Malay Kumar Adak, (2016): Biotechnological Implication with *Azolla pinnata* R.Br. for Metal Quenching Ability with Physiological Biomarkers; Paper Received : 15th December 2015, Paper Accepted : 20th March 2016; **Cryptogam Biodiversity and Assessment** VOL : (1), No. (1)2456-0251. D.O.I. - 10.21756/cba.v1i1.10960
9. **De A.K.**, Bera S., Adak M.K. (2016).Physiological Changes of Duck Weed Fern (*Azolla pinata* R. Br.) under Nitrogen and Phosphorus Depletion. **Genomics and Applied Biology**, 2015, Vol.5, No.9 1-16