Profile of Dr. Puspendu Dutta

Name : **Dr. Puspendu Dutta**

Designation : Assistant Professor

Address : Department of Seed Science and Technology
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Area of specialization : Crop Physiology, Plant Stress Physiology

Area of interests : Plant responses under changing climate, Seed enhancement

Awards :
1. Certificate of Merit [M. Sc. (Ag.) in Plant Physiology]
2. Certificate of Merit under National Scholarships Scheme [Higher Secondary]

Previous working experience :
1. Senior Research Fellow, NAE (Arsenic), BCKV **(**July'07-August'09)
2. Research Associate in NAIP (Component-IV), BCKV (Sept'07-Feb'09)
3. Development Officer in Tea Board India (March'09- October'14)

Training participated :
1. Winter School on "Abiotic and Heavy Metal Stress Management in Crop Through Physiological, Phytoremediation and Proximate Sensing Approaches" at Department of Crop Physiology, Assam Agricultural University, Jorhat organized during September 02, 2016 to September 22, 2016.

2. "Maintenance Breeding: Training-cum-Exposure Visit" organized by ICAR-Directorate of Seed Research in collaboration with ICAR-Indian Agricultural Research Institute-Regional Station, Karnal during 3rd to 4th March, 2015 at IARI-RS, Karnal.

Projects/Scheme handled :
1. "Standardization of physical seed priming methods for improving in productivity of wheat (*Triticum aestivum* L.) in Terai zone of West Bengal" sponsored by Department of Science and Technology & Biotechnology, Govt. of West Bengal, Dr. Puspendu Dutta: PI (on going).

2. "Screening of seed invigoration techniques for uniform crop establishment in selected medicinal plants of Hill and Terai zones of West Bengal" funded by National Medicinal Plant Board,

Ministry of AYUSH, Govt. of India, Dr. Puspendu Dutta: PI (on going)

3. "Studies on bio-efficacy and phytotoxicity of homobrassinoloide (0.04% w/w) in Tea and Rice" Sponsored by M/s Godrej Agrovet Ltd., Mumbai, Dr. Puspendu Dutta: PI (ongoing)

4. "Retrieval of biophysical parameters in Buxa tiger reserve using GISAT" funded by Space Application Centre, Indian Space Research Organization, Govt. Of India, Dr. Puspendu Dutta: Co-PI (Ongoing)

Publication :

1. International Journal - 12
2. National Journal - 10
3. Conference Proceedings - 01
4. Book Chapter - 03
5. Practical Manual - 02

Salient Publications :

1. S. Maity, **P. Dutta** and S. Das (2020). Impact of pre-anthesis photosynthetic traits on yield of wheat cultivars under in vivo condition: insight based on biochemical models. *Vegetos*, 33:106–116. https://doi.org/10.1007/s42535-019-00088-3
2. U. Maity, **P. Dutta,** B. Laya, and K. Mog Chaudhuri (2019). Enhancement of Green Leaf Yield in Tea [*Camelia sinensis* (L.) O Kuntze] as a Function of Pigments by Foliar Application of Triacontanol. *International Journal of Bio-resource and Stress Management*, 10(4): 451-455. https://doi.org/10.23910/IJBSM/2019.10._.2019
3. S. Mondal, P. Bandopadhyay and **P. Dutta** (2018). Arsenic contamination in cropping systems under varying irrigation sources in the deltaic plain of India. *Archives of Agronomy and Soil Science*, https://doi.org/10.1080/03650340.2018.1453132
4. **P. Dutta,** P. Bandopadhyay and S. Mondal (2017). Seed P content: a potential marker of arsenic tolerance during early seedling growth of rice. *Seed Science and Technology* 45 (1): 179-188. https://doi.org/10.15258/sst.2017.45.1.11
5. **P. Dutta,** P. Bandopadhyay and A.K. Bera (2016). Identification of Leaf Based Physiological Markers for Drought Susceptibility during Early Seedling Development of Mungbean. *American J. Plant Sci.*7:1921-1936. http://dx.doi.org/10.4236/ajps.2016.714176
6. **P. Dutta** and P. Bandopadhyay (2016). Arsenic Pollution in Agriculture: Its Uptake and Metabolism in Plant System. *Agri Res & Tech: Open Access J.* 1(5): 555573. http://doi:10.19080/artoaj.2016.01.555573
7. **P. Dutta** and A.K. Bera (2014). Seed germination and seedling growth of mungbean cultivars under NaCl salinity. *Legume Res.* 37(2):161-164.

8. **P. Dutta,** M.N. Islam and S. Mondal, (2014). Interactive effect of arsenic stress and seed phytate content on germination and seedling development of different vegetable crops. *J. Plant Physiol. Pathol.* 2:2 http://doi:10.4172/2329-955X.1000124.

9. **P. Dutta** and A. K. Bera (2008). Screening of mungbean genotypes for drought tolerance. *Legume Res*. 31(2): 145-148.

10. **P. Dutta** and A. K. Bera (2007). Oxidative stress and changes in the activity of active oxygen scavenging enzymes of mungbean seedling subjected to water stress. *Indian J. Plant Physiol*. **12**(2): 199-201