

Curriculum Vitae



1. Name : **DR. PUJA AGARWAL**

2. Designation : Assistant Professor (Stage-II)

3. Address-

i) Permanent: 115/1, Karbala Road, P.O.- Cossimbazar, Dist - Murshidabad, Pin - 742102;
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ii) Official: Araria College, Jai Prakash Nagar, Dist- Araria Pin- 854311; Bihar, India

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Vidwan profile URL: <https://vidwan.inflibnet.ac.in//profile/415676>

4. Date of Birth (dd/mm/yyyy):

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5. Marital Status : Married

6. Name of Husband : Dr. Sandip More

7. Nationality: Indian **Religion/Denomination:** Hindu

8. Category: General **Passport Number:** V6300359

9. Education Qualification:

Exam Passed	Year	Name of the University or Examination Body	Subjects Studied
Matriculation	2005	C.I.S.C.E.	English, Hindi, Mathematics, Science, History Civics & Geography, Home Science.

Intermediate (10+2)	2007	W.B.C.H.S.E.	English, Hindi, Physics, Chemistry, Biology, Mathematics, Environmental education.
B.Sc. (Graduation)	2010	University of Burdwan	Botany (Hons.), Zoology, Chemistry.
M.Sc. (Post-Graduation)	2012	University of Burdwan	Botany (Specialization: Cytogenetics and Molecular Biology)
Ph.D. (Doctorate)	2021	University of Burdwan	Ph.D. Thesis title: Understanding role of MYB4 transcription factor in the transcriptional regulation of UV-B responsive DNA double stand break repair genes in <i>Arabidopsis thaliana</i> in relation to plants response to UV-B stress.
GATE	2013	NCB-GATE for MHRD India	Examination Paper- Life Science.
NET	2014	CSIR HRDC Examination	Subject- Life Science.

10. Teaching Experience: 5 years 7 months.

11. Position holding: Assistant Professor (Stage-II) in Department of Botany (U.G. & P.G.), Araria College, Araria affiliated under Purnea University, Purnia.

And

Guest Faculty in Department (P.G.) of Botany, Murshidabad University, Berhampore, Murshidabad, West Bengal.

12. Administrative Experience:

1) Served as a member of Lab Committee, Purnea University Purnia from the period of 13th September 2018 to 28th February 2020.

2) Served as a member of Development Committee of R.D.S. College, Salmari (an affiliated college under Purnea University, Purnia) from the period of 10th January 2021 to 8th March 2022.

3) Serving as a member of Departmental Research Council (DRC) for Post-Graduate Department (Botany) in Purnea University, Purnia, Bihar since 17th February 2023.

4) Working as a Paper setter and Examiner in Master degree Course (Botany) in Murshidabad University, Berhampore, Murshidabad, West Bengal since 2023.

13. Student related co-curricular activities:

- 1) Organized National Seminar on "Present Status and Prospects of Cultivation, Processing and Packaging of Makhana in Purnia Division" in Purnea University, Purnia on 20th December 2019.
- 2) Served as a NSS Programme Officer of R.D.S. College, Salmari (an affiliated college under Purnea University, Purnia) from the period of 1st April 2021 to 8th March 2022 during which several social events and competitions were organized. .
- 3) Teaching as guest teacher in Pre-Examination Training Centre, under Bihar State Backward Class Finance & Developmental Corporation, Patna (in Araria College, Araria branch) since 2022.
- 4) Serving as a Convenor of Cultural Committee in Araria College, Araria (an affiliated college under Purnea University, Purnia) from 1st June 2023 to till date.

14. Examination and evaluation duties assigned:

- 1) Acted as an Internal Examiner to conduct Practical Examination of Intermediate Final 2021 in Biology.
- 2) Acted as an External Examiner for conducting DP-I-2020, Practical / Viva-Voice Exam (Botany) of Purnea University, Purnia.
- 3) Served in Evaluation duty for conducting DP-I-2020 Examination, Purnea University, Purnia.
- 4) Acted as an Internal Examiner for conducting DP-I-2021, Practical / Viva-Voice Exam (Botany) of Purnea University, Purnia.
- 5) Acted as an Internal Examiner for conducting DP-II-2021, Practical / Viva-Voice Exam (Botany) of Purnea University, Purnia.
- 6) Acted as an Internal Examiner for conducting DP-III-2021, Practical / Viva-Voice Exam (Botany) of Purnea University, Purnia.
- 7) Acted as an Internal Examiner for conducting DP-II-2022, Practical / Viva-Voice Exam (Botany) of Purnea University, Purnia.
- 8) Acted as an Internal Examiner for conducting DP-I-2023, Practical / Viva-Voice Exam (Botany) of Purnea University, Purnia.

9) Acted as an Internal Examiner for conducting DP-III-2023, Practical / Viva-Voice Exam (Botany) of Purnea University, Purnia.

10) Acted as an External Examiner for conducting CBCS UG 1st Semester-2024, Practical / Viva-Voice Exam (Botany) of Purnea University, Purnia.

11) Acted as an External Examiner for conducting CBCS UG 3rd Semester-2024, Practical / Viva-Voice Exam (Botany) of Purnea University, Purnia.

15. Fellowships / Awards / Honors Received:

1) Appointed as a Research Fellow of a CSIR sponsored research project "Understanding role of MYB4 transcription factor in the transcriptional regulation of UV-B responsive DNA double strand break repair genes in *Arabidopsis thaliana* in relation to plants response to UV-B stress" under joint supervision of Dr. Sujit Roy and Prof. Soumen Bhattacharjee, Department of Botany, University of Burdwan.

2) Acted as an Interviewer for Post-Graduate Department of Botany, Purnea University, Purnia to conduct interview of PAT 2023 qualified candidates for Ph.D.

16. Research Experience: 9 Year.

17. Area of Specialization: Plant Cytogenetics and Molecular Biology.

18. Selected list of publications:

1. MYB4, a member of R2R3-subfamily of MYB transcription factor functions as a repressor of key genes involved in flavonoid biosynthesis and repair of UV-B induced DNA double strand breaks in *Arabidopsis* Samrat Banerjee, Puja Agarwal, Swarup Roy Choudhury, Sujit Roy Plant Physiology and Biochemistry, Volume 211, Year 2024, Pages

2. Plant response to heavy metal stress: an insight into the molecular mechanism of transcriptional regulation Mehali Mitra, Puja Agarwal, Sujit Roy In book: Plant Transcription Factors, Volume , Year 2023, Pages 337-367

3. The N-terminal MYB domains affect the stability and folding aspects of *Arabidopsis thaliana* MYB4 transcription factor under thermal stress Mehali Mitra, Puja Agarwal, Sujit Roy, Protoplasma, Volume 258, Year 2021, Pages 633-650

4. Unveiling the mechanism of transcriptional and epigenetic responses in plants under heavy metal stress: An update Samrat Banerjee, Mehali Mitra, Puja Agarwal, Sujit Roy, Heavy Metal Toxicity in Plants: Physiological and Molecular Adaptations, Volume , Year 2021, Pages 79-93.

5. MYB4 transcription factor, a member of R2R3-subfamily of MYB domain protein, regulates cadmium tolerance via enhanced protection against oxidative damage and increases expression of PCS1 and MT1C in Arabidopsis Puja Agarwal, Mehali Mitra, Samrat Banerjee, Sujit Roy, Plant Science, Volume 297, Year 2020.

6. Investigation of the effect of UV-B light on Arabidopsis MYB4 (AtMYB4) transcription factor stability and detection of a putative MYB4-binding motif in the promoter proximal region of AtMYB4 Mehali Mitra, Puja Agarwal, Anurima Kundu, Victor Banerjee ., Sujit Roy ., PLoS ONE, Volume 14, Year 2019

7. Structure, Function and Evolutionary Aspects of Mitochondria Puja Agarwal, Mehali Mitra, Sujit Roy ., Handbook of Mitochondrial Dysfunction, Volume , Year 2019, Pages 9-22

8. Oxidative and genotoxic damages in plants in response to heavy metal stress and maintenance of genome stability Subhajit Dutta, Mehali Mitra, Puja Agarwal, Kalyan Mahapatra, Sayanti De, Upasana Sett, Sujit Roy, Plant Signaling and Behavior, Volume 13, Year 2018

Journals: 5

Book chapters: 3

19. Selected list of Seminar/ Symposia/ Conference/ Workshop attended (Faculty of Science):

Name of Seminar/ Symposia/ Conference/ Workshop	Name of sponsoring Agency	Place	Date
1) International Conference on The Green Planet- Past, Present, and Future	Department of Botany, University of Calcutta in collaboration with Probir Chatterjee Research Foundation & Botanical Survey of India	Kolkata, West Bengal	21.12.2016 to 23.12.2016
2) International Symposium on Insight to Plant Biology in the Modern Era	Division of Plant Biology, Bose Institute	Kolkata, West Bengal	08.02.2017 to 10.02.2017
3) International Conference on Plant Developmental Biology and 3 rd National Arabidopsis Meeting	National Institute of Science Education and Research	Bhubaneswar, Odisha	12.12.2017 to 16.12.2017
4) 25 th S.M. Sircar Memorial Conference	Plant Physiology Forum, Bose Institute	Kolkata, West Bengal	17.03.2018
5) ICAR Sponsored Winter School on Current	Department of Plant Breeding & Genetics,	Bhagalpur, Bihar	16.01.2020 to

Applications, Challenges and Perspective of Genomics-Assisted Breeding for Crop Improvement	Bihar Agricultural University, Sabour		05.02.2020
6) XIV International Geographical Union (IGU)-India: International Conference on Agriculture, Food, Water, Biodiversity and Health in Changing Climate	Department of Geography, The University of Burdwan	Burdwan, West Bengal	06.03.2020 to 08.03.2020

20. Selected list of published abstracts:

1) An abstract entitled "Understanding the Structure and Function aspects of a MYB-Domain Transcription Factor in *Arabidopsis thaliana* under UV-Stress" has been published in the proceedings of "International Conference on The Green Planet- Past, Present, and Future" held from 21st - 23rd December 2016, Kolkata, West Bengal.

2) An abstract entitled "Homologous recombination defective Arabidopsis mutants exhibit enhanced sensitivity to abscisic acid" has been published in the proceedings of "International Symposium on Insight to Plant Biology in the Modern Era" held from 8th - 10th February 2017, Kolkata, West Bengal.

3) An abstract entitled "Deciphering the link between ABA signaling and DNA damage response in the context of genome stability in plants" has been published in the proceedings of "International Conference on Plant Developmental Biology and 3rd National Arabidopsis Meeting" held from 12th - 16th December 2017, Bhubaneswar, Odisha.

4) An abstract entitled "MYB4 transcription factor, a member of R2R3-type MYB family protein regulates Cd tolerance via activation of antioxidant defense and glutathione (GSH)-dependent pathway in *Arabidopsis thaliana*" has been published in the proceedings of "XIV International Geographical Union (IGU)- India: International Conference on Agriculture, Food, Water, Biodiversity and Health in Changing Climate" held from 6th - 8th March 2020, Burdwan, West Bengal.

21. Courses / Programmes attended:


1) Participated in a UGC sponsored Faculty Induction Programme organized by UGC HRDC, Goa University from 03.08.2021 to 06.09.2021

2) Participated in a UGC sponsored Refresher Course in Life Sciences (Inter –Disciplinary)

organized by UGC HRDC, Goa University from 10.01.2023 to 23.01.2023

3) Participated in a UGC (MMTTC) sponsored Refresher Course in 21st Century Development and Environmental Challenges organized by UGC (MMTTC) University of Calcutta from 09.01.2025 to 22.01.2025

I confirm that all the details given above are correct.



Signature