RESUME

NAME: **ARPITA DAS**

DESIGNATION: **Assistant Professor (Stage-II)**

CONTACTS:

1. **OFFICIAL ADDRESS FOR CORRESPONDENCE:**

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4. **ORCID ID:** 0000-0002-8115-492X

5. **GOOGLE SCHOLAR PROFILE:**

https://scholar.google.com/citations?user=enGHWaQAAAAJ&hl=en

6. **RESEARCHGATE PROFILE: _____**

7. **DATE OF BIRTH: 27/12/1979**

8. **DATE OF JOINING TO THE UNIVERSITY: 01/02/2016**

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9. **ACADEMIC PROFILE:**

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
DOCTORAL	Ph. D (Ag.) Biotechnology	BCKV, West Bengal, India	2009
MASTER'S	M.Sc. (Ag.), Plant Breeding	BCKV, West Bengal, India	2004
BACHELOR'S	B.Sc. (Ag.) Hons.	UBKV, West Bengal, India	2002

10. **EMPLOYMENT HISTORY: (Starting from present position)**

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Assistant Professor	Bidhan Chandra Krishi Viswavidyalaya, Nadia, West Bengal	February, 01, 2016	continuing
Assistant Professor-cum Jr Scientist	Bihar Agricultural University, Sabour, Bihar	October, 8th, 2012	31st January, 2016

11. **ADMINISTRATIVE POST(S)/ RESPONSIBILIY(IES) (IF ANY):**

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From (Date)	To (Date)
1.	Member, Technical cell, BCKV	21.06.2021	03.03.2023
2.	Member, Newsletter Committee, BCKV	10.03.2025	Continuing
3.	Member, Social media Committee, BCKV	23.05.2025	Continuing
4.	Member, Central Analytical Instrumentation Facility (CAIF)	03.06.2025	Continuing

12. AREA OF RESEARCH: (Bulleted list)

- Working as the breeder of AICRP on *kharif* and *rabi* pulses and entrusted with on-going breeding programme of mungbean, urdbean, lentil and lathyrus.
- Resistance breeding, breeding for quality improvements, development of genetic and genomic resources in pulse crops.
- Protection of plant varieties and DUS testing procedure.

13. COURSES ASSOCIATED WITH:

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	**GPB-202**	Principles of Plant breeding	**2+1**
	GPB-254	Crop Improvement-I	**1+1**
	GPB-353	Intellectual Property rights	**1+0**
POST GRADUATE	**GPB-503**	Fundamentals of Quantitative Genetics	**2+1**
	GPB-511	Crop Breeding-I (K*harif* Crops)	**2+1**
	GPB-512	Crop Breeding-II (*Rabi* Crops)	**2+1**
	GPB-516	Breeding for Stress Resilience & Climate Change	**2+1**
Ph.D.	**GPB-601**	Advanced Plant Breeding System	**3+0**
	GPB-602	Advance in Biometrical Genetics	**2+1**
	GPB-652	Biodiversity and Plant Genetic Resource Management	**2+1**

14. NUMBER OF STUDENTS SUPERVISED:

Master's.: 08 (submitted); 02 (pursuing)

Doctoral: 02 (submitted); 03 (pursuing)

15. PROJECT ACTIVITIES

SL. NO.	TITLE OF THE PROJECT	FUNDING AGENCY	ONGOING/ COMPLETED	PI/ Co-PI
1	Consortium Research Platform of Agrobiodiversity	ICAR-NBPGR	On-going	CC-PI
2	Genetic improvement of lentil for resistance against major diseases of rice-fallow ecology with special reference to collar rot and lentil blight complex	ICARDA	On-going	PI
3	Genetic improvement of lentil for rice fallow ecology: converging nutrient use efficiency and stemphylium blight resistance	ICARDA	Completed	PI
4	Promotion of improved technologies of crop production for livelihood security and sustainable agriculture	NABARD	Completed	Co-PI

	through strengthening of infrastructure"			
5	"Infrastructural support for establishment of laboratory for testing quality of compost and organic manures"	RKVY	Completed	Co-PI
6	"Development of farm and tissue culture units for production and promotion of the medicinal plant stevia as a promising cash crop"	RKVY	Completed	Co-PI
7	"Development of High Yielding, Early Maturing and Small-Seeded Lentil Varieties with Resistance to Key Biotic and Abiotic Stresses, Suitable for Short-Season Environments: Phase II"	ICARDA	Completed	Co-PI
8	Development of new varieties through hybridization and mutation breeding in Polianthus tuberose (Rajanigadha) for agricultural exploitation	DST, Govt. of West Bengal	Completed	Co-PI

16. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME ORGANIZED :

Training programme

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE

17. SEMINAR/ SYMPOSIUM/ WORKSHOP etc ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	National symposium on "Recent Advances in Floriculture and Urban Horticulture in Global Perspective	2 days	BCKV	Member, Organizing Committee
2	Annual Group Meet on "Jute & Allied Fibres	2 days	BCKV	

18. PATENTS/ HONOURS/ AWARDS/ RECOGNITION (Bulleted list):

- Received the "Best Teacher Award, 2015" of Nalanda College of Horticulture, Noorsarai, Nalanda from Bihar Agricultural University, Sabour, Bhagalpur.
- One of the breeder of a jute variety **JRO 2407 (Samapti**) released by Central Variety
- release Committee on September, 2010.
- One of the breeder of the Lathyrus variety **KL-5 (Bidhan Khesari-2**) released by Central variety Release Committee on 13th March, 2024.
- Two Fieldpea lines **IPF-2014-13 (INGR21227) and IPF 2014-16 (INGR22043)** showing durable **resistance against Field Pea rust** (*Uromyces* spp.) has been

recommended for registration by Plant Germplasm Registration Committee (PGRC) of ICAR on 24th December, 2021 and March 29, 2022, respectively as genetic stocks.

- One wild bean line (*Vigna stipulacea*) **IC553521 (INGR22080)** having **higher protein content (24.6%)** has been recommended for registration by Plant Germplasm Registration Committee (PGRC) of ICAR on 2022, as genetic stock.
- **BCL 10212 (INGR25013**), a biofortified lentil line with **high grain Fe content (116.07 mg/kg)** was registered as unique germplasm by the Plant Germplasm registration Committee (PGRC), ICAR, on March 24, 2025
- Received IC No. (IC-0634667- IC-0634674) from ICAR-NBPGR, New Delhi for six grasspea (*Lathyrus sativus*) and two fieldpea (*Pisum sativum*) germplasm collected from Murshidabad district of West Bengal.

19. INTERNATIONAL COLLABORATIONS/ INVOLVEMENT, IF ANY (Bulleted list):

- Acting as PI of ICARDA funded project for Genetic improvement of Lentil
- Visited **Arusa, Tanzania** for participation in the training programme "Breeding approaches for enhancing genetic gains in Grain Legumes and Dryland Cereals" during 10-18th October, 2019 sponsored by ICRISAT, Hyderabad.
- Visited **Morocco, North Africa** for participation in the training programme on "Crop Improvement of grain legumes and Cereals" during 12 to 20 May, 2023 sponsored by ICARDA, Morocco
- Participated in first International Lathyrus Day scheduled on 3rd June, 2024 at **Ghent, Belgium** sponsored by Crop Trust, Germany

20. PUBLICATIONS

A. BOOKS: Nil

B. RESEARCH PAPERS (Best 10 in last 5 years)

- **Das, A**.; Pramanik, K.; Sharma, R.; Gantait, S. & Banerjee, J. (2019). In-silico study of biotic and abiotic stress-related transcription factor binding sites in the promoter regions of rice germin-like protein genes. *PloS one*, *14*(2), e0211887. (**NAAS: 8.9**).
- **Das, A.**, Gupta, S.; Parihar, A.K.; Saxena, D.; Singh, D.; Singha, K.D.; Kushwaha, K.P.; Chand R.; Bal, R.S. and Chandra, S. (2019). "Deciphering genotype-by-environment interaction for targeting test environments and rust resistant genotypes in field pea (Pisum sativum L.). *Frontiers in Plant Science*, 10: 825. (**NAAS: 10.1**).
- **Das A.,** Gupta S, Parihar AK, et al. Delineating Genotype × Environment interactions towards durable resistance in mungbean against Cercospora leaf spot

(Cercospora canescens) using GGE biplot (2019). *Plant Breeding*, 2019;00:1–12. https://doi.org/10.1111/pbr.12789. (**NAAS: 7.5**).

- Singh, B., **Das, A***., Parihar, A. K., Bhagawati, B., Singh, D., Pathak, K. N., ... and Kumar, R. (2020). Delineation of Genotype-by-Environment interactions for identification and validation of resistant genotypes in mungbean to root-knot nematode (Meloidogyne incognita) using GGE biplot. *Scientific Reports*, 10(1), 1-14. (**NAAS: 9.8**).
- Pramanik, K., **Das, A**., Banerjee, J., Das, A., Chatterjee, S., Sharma, R., Kumar, S. and Gupta, S. (2020). Metagenomic Insights into Rhizospheric Microbiome Profiling in Lentil Cultivars Unveils Differential Microbial Nitrogen and Phosphorus Metabolism under Rice-Fallow Ecology. *International Journal of Molecular Science*, 21, 8895; doi:10.3390/ijms21238895. (**NAAS: 10.9**).
- Ghosh, M., Banerjee, J., Bhattacharyya, S., Pramanik, K., Roy, A., and **Das, A***. (2022). Studies on genetic variability and identification of sequence variations among cultivars and landraces of Rice (Oryza sativa L.) for apparent amylose and amylopectin contents. *Cereal Research Communication*, https://doi.org/10.1007/s42976-021-00231-4 (**NAAS: 7.6**).
- Bhattacharya, S., **Das, A***., Banerjee, J., Mandal, S. N., Kumar, S., & Gupta, S. (2022). Elucidating genetic variability and genotype× environment interactions for grain iron and zinc content among diverse genotypes of lentils (Lens culinaris). *Plant Breeding*, (**NAAS: 7.5**)
- Meher D.D., **Das, A***., Banerjee J., Bhattacharya S., Bagchi, T.B., and Pramnik, K. (2024). Appraisal of genetic variability and detection of sequence polymorphism in the Rc and Rd locus among the pigmented and non-pigmented genotypes of rice. *Cereal Research Communication*, https://doi.org/10.1007/s42976-023-00482-3 (**NAAS: 7.5**)
- Nazneen, H., Das, R., **Das, A***., Dutta, S., Gupta, S., & Kumar, S. (2024). Disease spectrum and its molecular characterisation in the lentil production system of lower-Indo Gangetic plains. *Frontiers in Plant Science*, 15, 1199016. (**NAAS: 10.1**)
- Gain H., Nivas, R., Malik, K., **Das, A**., Chakraborty, S., Banerjee, J., (2024). Image processing and impact analyses of terminal heat stress on yield of lentil. *3 Biotech*, 14:188 https://doi.org/10.1007/s13205-024-04031-5. (**NAAS: 8.80**).

C. Review Articles:

- Gantait, S., **Das, A**. and Mandal, N. (2014). Stevia: A comprehensive review on ethnopharmacological properties and *in vitro* regeneration. *Sugar Technology*, DOI 10.1007/s12355-014-0316-3. (**NAAS: 7.8**).
- Gantait, S., **Das, A**. and Banerjee, J. (2018). Geographical distribution, botanical description and self-incompatibility mechanism of Genus Stevia. *Sugar Technology*, DOI 10.1007/s12355-017-0653-1. (**NAAS: 7.8**).
- **Das, A.;** Dutta, S.; Jash, S.; Roy Barman,A.; Das, R.; Kumar, S. and Gupta, S. (2019). Current Knowledge on Pathogenicity and Management of *Stemphylium botryosum* in Lentils (*Lens culinaris* ssp. culinaris Medik). *Pathogens*, 8, 225: doi:10.3390/pathogens8040225. (**NAAS: 9.3**).
- Pratap, A**.**, **Das, A**., Kumar, S. and Gupta, S. (2021). Current perspectives of introgression breeding in food legumes. *Frontiers in Plant Science*, 11:589189. doi: 10.3389/fpls.2020.589189. (**NAAS: 10.1**).
- **Das, A**., Parihar, A. K., Barpete, S., Kumar, S., & Gupta, S. (2021). Current Perspectives on Reducing the β-ODAP Content and Improving Potential Agronomic Traits in Grass Pea (Lathyrus sativus L.). *Frontiers in Plant Science*, 12. (**NAAS: 10.1**).
- Patra N, Hariharan S, Gain H, Maiti MK, **Das A*** and Banerjee J (2021) TypiCal but DeliCate Ca++re: Dissecting the Essence of Calcium Signaling Network as a Robust Response Coordinator of Versatile Abiotic and Biotic Stimuli in Plants. *Frontiers in Plant Science*, 12:752246. doi: 10.3389/fpls.2021.752246. (**NAAS: 10.1**).
- Gain, H., Nandi, D., Kumari, D., **Das, A**., Dasgupta, S. B., & Banerjee, J. (2022). Genome-wide identification of CAMTA gene family members in rice (Oryza sativa L.) and in silico study on their versatility in respect to gene expression and promoter structure. *Functional & Integrative Genomics*, 22(2), 193-214. (**NAAS: 9.9).**

Arpita Das

15.06.2025

Signature with Date