

RESUME

NAME: DrJhumaDatta

DESIGNATION: Assistant Professor and Head,
Department of Agricultural Biochemistry

CONTACTS:

1. **OFFICIAL ADDRESS FOR CORRESPONDENCE:**

2. **PHONE :** Mobile: 9434948824

WhatsApp: 9434948824

3. **EMAIL :** Institutional:

datta.jhuma@bckv.edu.in

Alternative:

jd.bckv@gmail.com

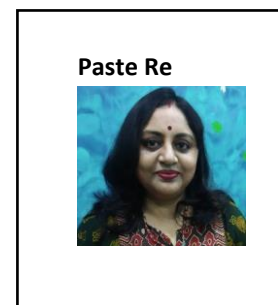
4. **ORCID ID:** _____

5. **GOOGLE SCHOLAR PROFILE:** https://scholar.google.co.in/citations?user=MA-FUHsAAAAJ&hl=en

6. **RESEARCHGATE PROFILE:** _____

7. **DATE OF BIRTH:** 12 / 01 / 1975

8. **DATE OF JOINING TO THE UNIVERSITY:** 26 / 11 / 2014



9. ACADEMIC PROFILE:

LEVEL	NAME OF THE DEGREE WITH DISCIPLINE/ DEPARTMENT	INSTITUTE	YEAR OF PASSING
Post Doctoral	Legume-rhizobium interaction	University of California, Davis, USA	2012-2013
DOCTORAL	Ph.D.Life Sciences (Biochemistry)	C.S.J.M. University KANPUR	2004-2010
MASTER'S	M.Sc. (Biochemistry)	CCS Haryana Agricultural University, hisar	2000
BACHELOR'S	B.Sc.(Agriculture) Hons.	VisvaBharati, Santiniketan	1997

10. EMPLOYMENT HISTORY:(Starting from present position)

11.

POSITION	ORGANIZATION	PERIOD	
		From (Date)	To (Date)
Assistant Professor (Biochemistry)	BCKV	26.11.2014-	till date

Assistant Professor (Molecular Biology and Biotechnology)	Sripat Singh College, Jiaganj, Kalyani University.	9.4.2014	25.11.2014
Lecturer (Biochemistry)	Lecturer (Biochemistry)	15.07.2004	08.04.2014

12. ADMINISTRATIVE POST(S)/ RESPONSIBILITY(IES) (IF ANY)

SL. NO.	NAME OF THE POST(S)/ RESPONSIBILITY(IES)	PERIOD	
		From (Date)	To (Date)
1	Provost, Ladies Hostel, COABDN, BCKV (Bardhaman Campus)	7-12-21	9-08-22
2	Nodal officer, Kanyasree at Purbo-Bardhaman	2017	Continuing
3	Member of Internal Complaints Committee of BCKV as per Visakha guidelines	2018	2022
4	Head, Department of Agricultural Biochemistry, BCKV	10.08.2022	Continuing

13. AREA OF RESEARCH : (Bulleted list)

- *Genetic network regulating the early symbiotic responses in legumes*
- *Biochemical and molecular studies on Biotic stress.*
- *Biochemical and molecular studies on Abiotic stress.*
- *Nutritional and Food Biochemistry*

14. COURSES ASSOCIATED WITH:

LEVEL	COURSE NO.	COURSE TITLE	CREDIT
UNDERGRADUATE	ABC106	Fundamentals of plant Biochemistry	2+1
	EC 264	Plant Biochemistry and Molecular Biology	2+1
	ACGP 203	Agricultural Microbiology	1+1
	PPH 157	Fundamentals of Crop Physiology	1+1
	EC 315	Plant Developmental Biology	2+1
POST GRADUATE	Biochem 501	Basic Biochemistry	3+1
	Biochem 502	Intermediary metabolism	3+0
	Biochem 503	Enzymology	2+1
	Biochem 504	Molecular Biology	2+1
Ph.D.	ABC 702	Plant BiochemistryII	2+1

	ABC 751	Biochemistry of biotic stresses	3+0
--	---------	---------------------------------	-----

15. NUMBER OF STUDENTS SUPERVISED:

Master's. 03 completed. 01 on going Doctoral 5 ongoing

16. RESOURCE PERSON FOR OTHER INSTITUTES (involvement in teaching or working as member of academic/ research bodies of other organizations, if any)

17. LIFE MEMBERSHIP OF ACADEMIC SOCIETIES

- The Indian Society of Agricultural Biochemists (ISAB),
- Crop & Weed Science Society, Kalyani, West Bengal

18. PROJECT ACTIVITIES

S. No.	Title	Role as PI / Co-PI	Agency	Status
1	Evaluation of bioefficacy and phytotoxicity effects of fungicide Aliette on banana wilt	Co-PI	M/S Bayer Crop Sciences Ltd.	completed
2	Bioefficacy and phytotoxicity evaluation of copper hydroxide against anthracnose of chilli	Co-PI	M/S Vimal crop Care Pvt. Ltd.	completed
3	Infrastructural support for establishment of centre for testing soil and water quality	Co-PI	RKVY	completed
4	Evaluation of Biostimulant / Organic fertilizer product SHADO GR for qualitative, quantitative and organoleptic parameters on Paddy in the ensuing season (Late kharif, 2022-23).	PI	M/S Heranba Industries Ltd	completed
5	Evaluation of Biostimulant / Organic fertilizer product SHADO for qualitative, quantitative and organoleptic parameters on Chilli, in the ensuing season (Rabi, 2022-23)	PI	M/S Heranba Industries Ltd	completed
6	“Morpho-physiological characterization and yield potentiality of one Sunflower	PI	M/S UPL Limited	completed

	hybrid (ADV 363) in Purbo Bardhaman of West Bengal”			
7	Evaluation of Biostimulant / Organic fertilizer product SHADO GOLD for qualitative, quantitative and organoleptic parameters on Chilli in the ensuing season (Rabi,2023-24).	PI	M/S Heranba Industries Ltd	ongoing
8	Evaluation of Bioefficacy of the Biostimulant AgroSatva on tomato in the ensuing season (Rabi,2023-24)	PI	Gencrest Bioproducts Private Limited	ongoing
9	Up-gradation of Market-linkage network for promotion of Aromatic and special rice of West Bengal	Co-PI	RKVY	ongoing

19. CAPACITY BUILDING/FACULTY DEVELOPMENT PROGRAMME

A. ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE

B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
	Advanced Faculty Training (CAFT) on “Recent Techniques and Tools for Nutritional Quality Assessment and Enhancement of Food Crops”	21 days (23 January to 12 February 2018)	ICAR-IARI, New Delhi	Trainee
	BIOSCOPY 2019-a hands-on microscopy workshop	17 to 20 March 2019	IISER- Kolkata, IACS-Kolkata, RRI-Bangalore, and C-CAMP- Bangalore	Trainee
	ICAR sponsored winter school on “Climate Change and its Impact on Photosynthesis and Productivity of Rice”	ICAR-NRRI Cuttack	21 days (5 November to 26 November 2018)	Trainee
	Hands on learning with Bioinformatics for beginners	22 nd Feb,2020	ICAR-CRIJAF, Barrackpore, Kolkata	Trainee
	ICAR –HRD sponsored training programme on “Advances in Molecular Breeding of	25 th Feb to 5 th March,2020	ICAR-CRIJAF, Barrackpore, Kolkata	Trainee

	Industrial crops		
--	------------------	--	--

20. SEMINAR/ SYMPOSIUM/ WORKSHOP etc

A. ORGANIZED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE

B. ATTENDED

SL. NO.	NAME OF THE PROGRAMME	DURATION	PLACE	ROLE
1	"National Symposium on Emerging Innovations in Plant Molecules for Achieving Food and Nutritional Security	:22-23rd September, 2022	Department of Plant Molecular Biology and Biotechnology, ACHF, NAU, Navsari & Division of Biochemistry, ICAR from	Co-presenter
2	INTERNATIONAL CONFERENCE on Natural Farming for Revitalizing Environment and Resilient Agriculture (NF-RERA, 2023)	17th – 19th, March, 2023	Organized by CENTRAL AGRICULTURAL UNIVERSITY, IMPHAL, MANIPUR	Co-presenter
3	6 th CWSS INTERNATIONAL CONFERENCE ON“Agricultural Innovations for Sustainable Development Goals with Special Focus on Natural Farming” (AISDGONF-2023)	30 September – 02 October, 2023	Crop and Weed Science Society (CWSS) At Farmers' Academy & Convention Centre (FACC), BCKV, Kalyani, Nadia, West Bengal, India	Poster
4	National seminar on , Developments in Soil Science	16th Nov to 19th Nov ,2021	organised by Indian Society of Soil Science,Sriniketan,Visva-Bharati	Poster
5	International Conference on Advanced Agricultural Technologies for Self Reliant Farmers and Developed India	11/02/2024	Dr. Rajendra Prasad Central Agricultural University Pusa Samastipur Bihar-848125 - India Krishi Vigyan Kendra, Piprakothi East Champaran, Bihar In Association with IRRI South Asia Regional Center (IRRI-SARC), Varanasi, U.P., India	Co presenter

			Borlaug Institute for South Asia-BISA, Pusa, Bihar, India ICAR-ATARI, Patna, Zone-IV	
6	2nd Botanical Congress	23rd March-24th march,2024	The University of Burdwan in collaboration with Botanical Society of Bengal,	Poster
7	International Mungbean Congress. Bangkok, Thailand.	5-7 March 2024	Australian Center for International Agriculture Research and others	Co-Presenter
8	“Genomic and Biochemical Insights into RuBisCo Large Subunit Proteins in Fabaceae” International Symposium on “Biotechnology for Food-Nutritional Security and Organic Agriculture.”	25-26 March 2019	DBT-NECAB, AAU Jorhat, Assam	Speaker
9	“Biochemical response of crops to micronutrients”. National seminar on “Nutrients and pollutants in soil-plant –animal-human continuum for sustaining soil, food and nutritional security-way forward”..	9-10 June 2017	BCKV and NAAS at FACC, BCKV, Kalyani	Co presenter
10	Genetic network regulating the early symbiotic responses in legumes.	January 12-16, 2013.	XXI Plant and Animal Genome Conference, San Diego, USA,	Poster presented
11	Towards the elucidation of protein interaction networks regulating early host responses to Rhizobium.	May 19-20,2012	Yosemite, California, USA. Symbiosis Workshop	Presenter
12	Are genome edited cisgenics the alternatives to transgenic crops?.	16 th to 18 th February 2017.	20 th Annual Convention of ADNAT and symposium ‘Genome Editing Technologies and their Applications in Biology, Medicine and Agriculture. KIIT University, Bhubaneswar, Odisha,	Presenter

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

- **Qualified CSIR-UGC NET for JRF and lecturership in Life Sciences(2000).**
- Awarded ICAR JRF in Biochemistry(1998).
- University Merit Scholarship, Visva Bharati(1993-97).
- National Scholarship, Govt. India (1990-92).
- Fellow (The Indian Society of Agricultural Biochemists (ISAB))
- **Cover Article Award with NA position for the article entitled “Crassulacean Acid Metabolism (CAM)Photosynthesis as a Tool for Climate Resilience in Crops” published in Volume 03, Issue 04 of ‘Agriculture Letters’.**

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

NA

23. PUBLICATIONS

A. BOOKS - Objective Animal Biotechnology Brillion publishing
ISBN: 978939805328 e-ISBN: 97893980335

B. BOOK CHAPTERS (Best 10)-

From Lab to Plate:Harnessing Plant Genetic engineering for resilient and sustainable agriculture	A.Basak,Md S A Mondol,J Datta,...&B.Pramanik	DE GRUYTER
Molecular Recognition by plant lectins. In: <i>Development in Physiology, Biochemistry and Molecular Biology of Plants.</i>	(Eds. Bandana Bose and A Hemantarajan). <i>Pp. 157-173</i>	(Eds. Bandana Bose and A Hemantarajan). <i>Pp. 157-173</i>
<i>Practical Manual on Plant and Molecular Biochemistry for B.Sc. Ag. Hons. Sem IV. Elective course EC 264.</i>		<i>Publisher: BCKV; Funding: ICAR Development Grant</i>
<i>Practical Manual on Fundamentals on Plant Biochemistry for B.Sc. Ag. Hons. Sem I.</i>		<i>Publisher: BCKV; Funding: ICAR Development Grant</i>

A. RESEARCH PAPERS (Best 10)

Sl. No	Title with page no.	Journal	ISSN/ISBN No.	No. of Co-author
1	Biochemical and histopathological changes in chickpea (<i>Cicer arietinum</i> L.) during pathogenesis of collar rot fungi (<i>Sclerotium rolfsii</i> Sacc.). 12(01): 1-5	International Journal of Scientific Research	DOI: 10.36106/ijsr (IF: 5.711 PRINT ISSN No. 2277 - 8179	Sanju Tamang, Poly Saha, Jhuma Datta and Shishir Rizal (2023).
2	Evaluating the imazethapyr herbicide mediated regulation of phenol and glutathione metabolism and antioxidant activity in lentil seedlings.	PeerJ 12:e16370	https://doi.org/10.7717/peerj.16370	Kumar R, Kumari VV, Gujjar RS, Kumari M, Goswami SK, Datta J, Pal S, Jha SK, Kumar A, Pathak AD, Skalicky M, Siddiqui MH, Hossain A. 2024.
3	Welcome Banana in the traditional rice-potato cropping system of Purba Burd. Indian Horticulture,	Indian Horticulture Vol66 No(6).	https://epubs.icar.org.in/index.php/IndHort/article/view/119908	Saha, P., Das, S., Bera, S., & Datta, J. (2022).
4	Crassulacean acid metabolism	Agriculture Letters	(ISSN: 2582-6522). Article ID:	Jhuma Datta and Subhojit Datta (2021) .

	(cam) photosynthesis as a tool for climate resilience in crops,		21/01/020123 2	
5	Nutritional security through research and promotion of nutrition-rich miracle plant- Sajina (Moringa oleifera),	Agriculture Letters	(ISSN: 2582- 6522). Article ID: 21/01/020123 2	Jhuma Datta, Sibsankar Das and Soumen Bera (2021)
6	Herbicide induced changes in nutrient and antinutrient content during mung bean (Vigna radiata L.) seed development..	Internationa l Journal of Chemical studies	8(2): 223-228	Kumari Namrata, Jhuma Datta, Rajeev Kumar, A Chakravarty and Srikumar Pal (2020).
7	Temporal and spatial changes in host defense enzymes in response to fusarium wilt in pigeonpea (Cajanus cajan (L.) Millspaugh).	Internationa Journal of Biochemistr y Research & Review..	23(1): 1-15	Jhuma Datta and Nand Lal (2018).
8	Induced temporal and spatial variation in host defence enzymes in response to Fusarium wilt	Journal of Microbiolog y, Biotechnolo gy and Food Sciences.	7 (4) 426- 431.	Jhuma Datta and Nand Lal (2018).

	in chickpea.			
9	Genetic variability assessment of Fusarium wilt pathogen races affecting chickpea using molecular markers	. J Microbiology, Biotechnology and Food Sci..	2: 2392-2397	Datta J and N Lal. 2013.
10	Genetic diversity of Fusarium wilt races of pigeonpea in major regions of India..	African Crop Science Journal	21: 201 – 211. ISSN 1021- 9730/2013	Datta J and N Lal. 2013

26.6.24

Signature with Date