

List of Publications

List of papers published in SCI Journals, in year wise descending order

[Accumulated NAAS I.F-73.0; Accumulated SCI I.F-9.15; Citations-103; h-index-7.0; i10-index-3]

	Author(s)	Title	Name of Journal	Volume	Page	Year	NAAS I.F	SCI I.F	ISSN Number
1.	A. Tarafdar, H. Vishwakarma, Gothandapani S, M. Bhati, K. Biswas , A. Prakash, U. Chaturvedi, and J. C. Padaria	A quick, easy and cost- effective in planta method to develop direct transformants in wheat.	3 Biotech	9(5)	180	2019	7.5	1.79	2190-5738
2.	R. Kumar, K. Biswas , P. K. Singh, S. Elumalai, S. Pabbi and P. Shukla	Lipid production and molecular dynamics simulation for regulation of acc gene(s) in cyanobacteria under different N and P regimes	BMC Biotechnology for Biofuels	10 (1)	94	2017	11.5	5.5	1754-6834
3.	J. C. Padaria, K. Biswas , H. Vishwakarma, and G. P. Singh	Transcriptional profiling of heat stress responsive genes in different developmental stages of bread wheat (<i>Triticum aestivum</i> L.)	Indian Journal of Biotechnology	15 (4)	467	2016	6.37	0.34	0975-0967
4.	K. K. Biswas, K. Biswas and A. Tarafdar	Multiple and mixed infections with yellow mosaic, leaf crinkle and bud necrosis disease complex in mungbean: A threat to cultivation of mungbean in India	Legume Research	38 (3)	382	2015	6.37	0.34	0976-0571
5.	D. James, A. Tarafdar, K. Biswas , T.C. Sathyavathi, J.C. Padaria and P.A. Kumar	Development and characterization of a high temperature stress responsive subtractive cDNA library in Pearl Millet (<i>Pennisetum glaucum</i> L.R. Br.).	Indian Journal of Experimental Biology	53 (8)	543	2015	7.0	0.934	0975-1009
6.	J.C. Padaria, H. Vishwakarma, K. Biswas , R.S. Jasrotia and G.P. Singh	Molecular cloning and <i>in-silico</i> characterization of high temperature stress responsive pAPX gene isolated from heat tolerant Indian wheat cv. Raj 3765	BMC Research Note	7 (1)	713	2014	-	-	1756-0500

CURRICULUM VITAE

Resume Highlights: Willingness to learn new challenging problems and ability to solve it.

Personal Profile

Name : Dr. KOUSHIK BISWAS
Designation : National Post Doctoral Fellow
(DST-SERB Program, Govt. of India)
Visva Bharati, West Bengal
Father's Name : Sri Bhuban Ranjan Biswas
Date of Birth : 9th March, 1984
Religion : Hinduism
Nationality : Indian
Sex : Male
Marital Status : Unmarried
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Career Objectives:

- To work in a novel and challenging areas of Biotechnology to utilize my skills in the field of Biological sciences, Molecular Biology and Plant Pathology.
- To perform responsibility perfectly and create opportunity to make a challenging career as a **Research Scientist** cum **Faculty** as well as a leader in subject with a good command in advanced area of life science as my greatest asset is my sincerity and honesty.

Academic Profile:

Qualification	Subjects	Board/ University	Year
Secondary (10 th)	Beng., Eng., Life Sc., Ph.Sc., Math, Geo., Hist. and Work Education(A)	W.B.B.S.E	2000
Higher Secondary (12 th)	Beng., Eng., Phys., Chem., Math, Biology(A)	W.B.C.H.S.E	2002
B.Sc.(Agriculture) Hons.	All allied subjects of Agriculture	Visva-Bharati	2006
M.Sc. (Agri.) Biotechnology	All allied subjects of Agricultural Biotechnology	H.P.A.U., Palampur (H.P)	2009
PhD. Biotechnology	Thesis - Identification, characterization and validation of biotic stress responsive genes in Fusarium wilt infected pigeonpea	Shri J.J.T. University, Rajasthan	2017

Expertise:

Plant Biotechnology
Plant Physiology

Biochemistry
Plant Breeding

Genetics
Agricultural Microbiology

Teaching Experiences:

- 2013: Delivered Guest Lectures for B.Sc. Biotechnology courses in Shri JYT University, Jhunjhunu, Rajasthan for eight days.
- 2017 (July-November): Teaching professional of B.Sc. (Agricultural Science) students at Department of Agriculture, CT Group of Institutions, Punjab.
- 2018, January-2020, January: Visiting Faculty of B.Sc. (Agricultural Science) students at School of Agriculture, Seacom Skills University, W.B.

Academic/ Professional experience:

Time Periods	Dissertation/Project Title	Target/Crops	Supervisor/HOD	Institute
2006-2008	Molecular characterization of a viral disease infecting <i>Capsicum</i> spp. in H.P (M.Sc.)	Capsicum/Chilli	Dr. A.A. Zaidi, Head & Virologist	IHBT-CSIR, Palampur, H.P
May, 2009 -Dec., 2009	Population assessment and identification of superior genetic stock of <i>P. kurroa</i> by screening different populations from North Western Himalayas (H.P & UK)	<i>Picrorhiza kurroa</i>	Prof. R. S. Chauhan, Head, Dept. of BT & BI	Jaypee University of Information Technology, Solan, HP
Jan.-Dec., 2010	Plant virus diseases and their managements	Mungbean and Urdbean	Dr. V. K. Baranwal, National Professor	Div. of Plant Pathology, IARI, New Delhi
March, 2011-Jan., 2015	Bioprospecting of genes for thermo-tolerance in wheat	Wheat	Dr. J. C. Padaria, Pr. Scientist	NRC on Plant Biotechnology, New Delhi
Jan, 2015- May, 2017	Identification, characterization and validation of biotic stress responsive genes in Fusarium wilt infected pigeonpea (PhD)	Pigeon pea	Prof. Parthadeb Ghosh, Ex-Professor	Department of Botany, University of Kalyani, W.B
July, 2017-March, 2018	Teaching professional of B.Sc. (Agricultural Science) students	Lecturer ship	Department of Agriculture	CT Group of Institutions, Punjab & Seacom Skills University, W.B
April, 2018 - Till date	Bioprospecting of phytochelatin biosynthetic gene(s) from crop species of Vigna and their validation for heavy metal (Cu, Zn, Cd) stress tolerance	National Post Doctoral Fellow (DST-SERB Program)	Mentor- Dr. Jolly Basak, Assistant Professor	Department of Biotechnology, Visva Bharati University, W.B

Fellowships/Awards/Achievements:

- 2006 – 2008: Recipient of DBT studentship, awarded by the **DBT, INDIA** for qualifying the national entrance test for masters in **Agricultural Biotechnology**.
- 2010: Qualified for Agricultural Research Service (**NET**) in **Basic Plant Sciences** discipline, eligible for lecturer-ship (Recognized by **UGC/CSIR**).
- 2010-2016: Worked in central government funded project fellowships (NMPB-Ayush, ICAR-Outreach and ICAR-NICRA) as Senior Research Fellow and Research Associate.

- 2016: Best paper award for review article in International Journal of Applied and Natural Sciences.
- 2017: Selected as peer reviewer in NAAS rated journals 'Annual Research & Review in Biology' and 'Plant Cell Biotechnology and Molecular Biology'.
- 2018: Selected for National Post Doctoral Fellow Program (**DST-SERB, Govt. of India**) in Department of Biotechnology, Visva Bharati (A Central University), W. B.
- 2018: Qualified for **ARS-NET** (eligible for lecturer-ship) in **Agricultural Biotechnology** discipline, recognized by **UGC/CSIR**.

Publications (<https://independent.academia.edu/koushikbiswas2/Papers>)

Best five research articles:

1. A. Tarafdar, H. Vishwakarma, Gothandapani S, M. Bhati, **K. Biswas**, A. Prakash, U. Chaturvedi, and J. C. Padaria. 2019. A quick, easy and cost-effective in planta method to develop direct transformants in wheat. *3 Biotech* 9(5): 180. (NAAS I.F-7.5; JCR I.F-1.5)
2. R. Kumar, **K. Biswas**, P. K. Singh, S. Elumalai, S. Pabbi and P. Shukla. 2017. Lipid production and molecular dynamics simulation for regulation of acc gene(s) in cyanobacteria under different N and P regimes. *BMC Biotechnology for Biofuels* 10:94. (NAAS I.F-12.04; JCR I.F-5.5).
3. J. C. Padaria, **K. Biswas**, H. Vishwakarma, and G. P. Singh. 2015. Transcriptional profiling of heat stress responsive genes in different developmental stages of bread wheat (*Triticum aestivum* L.). 2015. *Indian Journal of Biotechnology* 15: 467-476. (NAAS I.F-6.3; JCR I.F-0.28).
4. J. C. Padaria, H. Vishwakarma, **K. Biswas**, R. S. Jasrotia, and G. P. Singh. 2014. Molecular cloning and *in-silico* characterization of high temperature stress responsive pAPX gene isolated from heat tolerant Indian wheat cv. Raj 3765. *BMC Research Note* 7 (1): 713-725.
5. D. James, A. Tarafdar, **K. Biswas**, T. C. Sathyavathi, J. C. Padaria and P. A. Kumar. 2014. Development and characterization of a high temperature stress responsive subtractive cDNA library in Pearl Millet (*Pennisetum glaucum* L.R. Br.). *Indian Journal of Experimental Biology* 53: 543-555. (NAAS I.F-6.75; JCR I.F-0.83).

Book published:

Nidhi Gupta (Editor) and **Koushik Biswas** (Co-editor). 2016. Book: *Research Trends in Molecular Biology*. Publisher: Research Signpost. ISBN: 978-81-308-0564-1.

Book Chapter: K. Biswas, S. Adhikari, A. Tarafdar, R. Kumar and P. Ghosh. Reactive oxygen species and antioxidant systems in plants: role and crosstalk under biotic stress. *Springer International*. [Accepted].

Research articles in NAAS rated journals -5

Research articles in ISSN journals -3

Book chapters published - 5

Attended International Conference/Workshop - 3

Attended National Conference/Symposium - 3

Techniques known (In summery):

- Genomic DNA, Plasmid DNA and RNA isolation from bacteria and plant systems
- Primer designing and their applications for PCR and Real Time PCR
- Suppression Subtractive Hybridization
- Western Blotting, Northern and Southern Hybridization
- Competent cell preparation, Gene Cloning and transformation (*E.coli*)
- DNA Microarray against wheat genome
- Whole transcriptome sequencing of Wheat under heat stress

- Protein extraction, expression in prokaryotic expression vector and SDS-PAGE analysis
- Enzyme linked immunosorbent assay (ELISA)
- Tissue culture, transformation and sterilization (Tobacco, Arabidopsis and tossa jute).
- Identification, quantification and analysis of specific compounds present in complex mixture of natural products through RP-HPLC
- Sequence submission in databases (NCBI, Genbank, TIGR)
- DNA, protein and EST sequence analysis and annotation using bioinformatics tools
- Well acquainted to work with mainly used computer based application

References:

1. Dr. Vipin Hallan

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(Floriculture Division)
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Dr. Jolly Basak

Assistant Professor, stage II
Department of Biotechnology
Visva-Bharati (A Central University)
Santiniketan, 731235, WB, India.
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3. Dr. Parthadeb Ghosh

Ex-Professor &
UGC-Emeritus Fellow
Department of Botany
University of Kalyani, W.B
E.mail: pdggene@redifmail.com

Declaration:

The above mentioned information is true to the best of my knowledge.

Place: Kolkata, W.B.

Date: 1.1. 2020

Koushik Biswas .

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