



CURRICULUM VITAE

Name:	BUDDHI PRAKASH JAIN	
Designation:	ASSISTANT PROFESSOR	
School:	LIFE SCIENCES	
Department:	ZOOLOGY	
Specialization & Research Interests:	<ol style="list-style-type: none"> 1. Post transcriptional regulation of gene expression in Cancer. 2. Endoplasmic reticulum stress and Cancer. 3. Molecular analysis of SG2NA/STRIPAK complex. 	
Email IDs (Official & Personal)	buddhiprakash@mgcub.ac.in	
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2. ACADEMIC QUALIFICATION (in reverse Chronological order):

Degree	Year	University / Board
Ph.D	2017	SCHOOL OF LIFE SCIENCES, JAWAHARLAL NEHRU UNIVERSITY NEW DELHI
M.Sc.	2011	DEPARTMENT OF ZOOLOGY, UNIVERSITY OF RAJASTHAN, JAIPUR

Degree	Year	University / Board
B.Sc. B.Ed. (IV YEAR COURSE)	2009	REGIONAL INSTITUTE OF EDUCATION, AJMER (MDS UNIVERSITY AJMER)

3. PROFESSIONAL EXPERIENCE:

Organization/Institute/University	Position Held	Duration
Assistant Professor	11-11-2016 to till date	Mahatma Gandhi Central University Motihari Bihar

4. COURSES TAUGHT:

S. No	Program	Subjects
1	B.Sc.	Genetics, Biochemistry, Non-Chordate, Chordate, Animal Behavior, Developmental Biology, Cell Biology, Apiculture, Medical Diagnostics, Insect Vector and Disease
2	M.Sc.	Biosystematics and Biostatistics, Non-Chordate, Chordate, Biochemistry, Developmental Biology, Cancer Biology.
3	Ph.D	Instrumentation and Techniques, Ecotoxicology.

5. RESEARCH SUPERVISION:

A. Ph.D.:

- i. Awarded : 01
- ii. Submitted : 00
- iii. Ongoing : 00

S No	Name of Student	Title
1	Smriti Shreya (2020)	Studying Unfolded Protein Response (UPR) in Breast Cancer

B. Non-Degree Oriented (Master's Level Dissertation):

- i. Awarded : 11
 ii. Submitted :
 iii. Ongoing :

S NO	Name of Student	Title of dissertation
1	SRISHTI SHRIYA	Comparative Analysis of Human HSP70 Family Proteins
2	FARHAT AFZA	Genome wide analysis of WD40 Domain containing protein in <i>Danio rerio</i>
3	NEHA KUMARI	Bioinformatic analysis of Polyadenylation Sequence and MicroRNA sites in the ER stress associated genes
4	MASUFA TARANNUM	Bioinformatic Analysis of mRNA In Psoriasis
5	YANJUSHA MADHU	Gene Ontology Analysis of WD40 domain containing protein in <i>Drosophila melanogaster</i>
6	BHAVYA SINGH	Genome wide analysis of WD40 domain containing proteins in <i>Drosophila melanogaster</i>
7	RATNA PRIYA	Bioinformatics analysis of miRNAs and their targets in psoriasis.
8	ANUPRIYA	Evaluation of lipid peroxidation and catalase activity with progression of Breast cancer.
9	SAUMYA JAISWAL	Estimation of Superoxide Dismutase (SOD) activity and Hyperperoxide (H ₂ O ₂) level in different stages of Breast cancer.
10	RAMAKRUSHN A PAUL	Bioinformatic analysis of alternative polyadenylation and miRNA sites in HSP70 family members in Human
11	SHIVANI	Analysis of milk composition adulterants and microbial contamination in the district of Motihari

6. CONTRIBUTION TO CORPORATE LIFE OF THE UNIVERSITY:

1. Member, Board of Studies, Department of Zoology MGCU Motihari Bihar (May 2017 to May 2020).
2. Member, School Board, School of Life Sciences MGCU Motihari Bihar (November 2017 to November 2020).
3. Member, Departmental Research committee.
4. Convener, Research Advisory Committee, Department of Zoology.
5. Coordinator, SWAYAM/MOOC, Department of Zoology, MGCU Motihari Bihar.
6. Member, Research and Development Cell, MGCU Motihari Bihar.

7. MEMBERSHIP OF SOCIETIES / PROFESSIONAL BODIES:

1. Society of Biological Chemists, India; Life Member, Reg no. 3178, Dec 2013
2. Early career member of European Association of Cancer Research (For four years from Feb, 2020).

8. PUBLICATIONS:

A. BOOKS:

S No	Title	Author's Name	Authored/Edited	Publisher	Year of Publication
1	Protocols in Biochemistry and Clinical Biochemistry	Buddhi Prakash Jain, Shyamal K Goswami, Shweta Pandey	Authored	Academic Press, Elsevier USA. ISBN No: 9780128220078.	2020
2	Understanding Cancer: From Basics to Therapeutics	Buddhi Prakash Jain, Shweta Pandey	Edited	Academic Press, Elsevier USA. ISBN No: 9780323998833	2022
3	Post-transcriptional gene regulation and Human Disease.	Buddhi Prakash Jain, Shyamal K Goswami, Tapan Sharma	Edited	Academic Press, Elsevier USA ISBN No: 9780323913058.	2022

B. BOOK CHAPTERS:

S No	Title	Author's Name	Publisher	Year of Publication
1	Cellular Stress and Polyadenylation. Book: A closer look at Polyadenylation	Nikhat Saleem and Buddhi Prakash Jain*	Nova Science Publishers. ISBN No: 978	2019
2	Implication of Alteration in RNA Polyadenylation Machinery in Diseases. Book: A closer look at Polyadenylation.	Shweta Pandey and Buddhi Prakash Jain*.	Nova Science Publishers. ISBN No: 978	2019
3	Cyanobacterial diversity concerning the extreme environment and their bioprospecting. Book: Cyanobacterial Life style and its Applications in Biotechnology.	Arun Kumar Kashyap, Sumit Kumar Dubey and Buddhi Prakash Jain*	Academic Press, Elsevier USA.ISBN No: 9780323906340.	2021
4	Cyanobacteria mediated heavy metal and xenobiotics bioremediation. Book: Cyanobacterial Life style and its Applications in Biotechnology.	Shweta Pandey, Sumit Kumar Dubey, Arun Kumar Kashyap and Buddhi Prakash Jain*.	Academic Press, Elsevier USA.ISBN No: 9780323906340.	2021

C. PAPERS IN REFEREED/PEER REVIEWED JOURNALS: (TOTAL NO: 22)

S No.	Details	IF
1	Jain BP , Chauhan P, Tanti GK, Singarapu N, Ghaskadbi S, Goswami SK. Tissue Specific expression of SG2NA is regulated by differential splicing, RNA editing and differential polyadenylation. <i>Gene</i> . 2015 Feb10;556(2): 119-26.doi:10.1016/j.gene.2014.11.045	3.9
2	Jain BP , Pandey S, Saleem N, Tanti GK, Mishra S and Goswami SK. SG2NA is a regulator of Endoplasmic Reticulum (ER) homeostasis as its depletion leads to ER stress. <i>Cell Stress Chaperones</i> . 2017 Nov;22(6):853-866	3.8
3	Pandey S, Talukder I, Jain BP , Goswami SK. 78kDa SG2NA modulates the G1/ G2 phases of cell cycle, and its expression is regulated by GSK3 β and ERK. <i>Scientific Reports</i> .2017Aug8; 7(1):7555. doi: 10.1038/s41598-017-08085-9.	4.9
4	Jain BP* . An Overview of Unfolded Protein Response Signalling and its Role in Cancer. <i>Cancer Biotherapy and Radiopharmaceuticals</i> . 2017 Oct; 32(8):275-281.	3
5	Jain BP* . The role of Alternative polyadenylation in Cancer progression. <i>Gene Reports</i> . 2018 Sept; 12:1-8.	SCOPUS
6	Jain BP* and Pandey S. WD40 repeat proteins: Signalling scaffold with diverse functions. <i>The Protein Journal</i> .2018Oct; 37(5):391-406.	4
7	Soni S, Jain BP , Dharavath S, Komath SS, Goswami SK. Biophysical characterization ofSG2NA variants and their interactions with DJ-1 and calmodulin in vitro. <i>Cell BiochemBiophys</i> . 2018 Dec; 76(4): 451-461.	2.9
8	Jain BP* . Genome wide analysis of WD40 proteins in <i>Saccharomyces cerevisiae</i> and their orthologs in <i>Candida albicans</i> . <i>The Protein Journal</i> . 2019 Feb; 38(1):58-75.	4
9	Chauhan P, Gupta R, Jain BP , Pandey S, Goswami SK. Subcellular dynamics of variants of SG2NA in NIH3T3 fibroblasts. <i>Cell Biology International</i> . 2020 Feb; 44(2): 637-650.	4.4
10	Gupta R, Kumar G, Jain BP , Chandra S, Goswami SK. Ectopic expression of 35 kDa and knocking down of 78 kDa SG2NAs induce cytoskeletal reorganization, alter membrane sialylation, and modulate the markers of EMT. <i>Molecular and Cellular Biochemistry</i> . 2021Feb; 476(2):633-648.	3.8
11	Afza F, Singh N, Shriya S, Bisoyi P, Kashyap AK, Jain BP* . Genome Wide identifications and analysis of WD40 domain containing proteins in <i>Danio rerio</i> . <i>Gene Reports</i> . 2021.	SCOPUS
12	Singh N, Shriya S, Afza F, Bisoyi P, Kashyap AK, Chaubey KK, Jain BP* . Bioinformatic analysis of post-transcriptional regulation of Endoplasmic reticulum stress genes by alternative polyadenylation and microRNA. <i>International Journal of Bioinformatics Research and Application</i> , Vol. 18, No. 4, November 2, 2022 pp 384-413.	SCOPUS
13	Bisoyi P, Devi P, Besra K, Prasad A, Jain BP, Goswami SK. The profile of expression of the scaffold protein SG2NA(s) differs between cancer types and its interactome in normal vis-a-vis breast tumor tissues suggests its wide roles in regulating multiple cellular pathways. <i>Mol Cell Biochem</i> . 2022 Jun;477(6):1653-1668. doi: 10.1007/s11010-022-04401-8.	3.8

14	Kashyap A, Shah S, Kumar A, Jain BP, Kashyap N Identification of putative therapeutic candidates of plasmodium falciparum by in-silico comparative genomics analysis. International Journal of Bioinformatics Research and Application, Vol. 18, No. 4, November 2, 2022pp 358-383.	SCOPUS
15	Arun K Kashyap*, Padmini Bisoyi, Jain BP* . Antioxidant, anti-microbial, anti-inflammatory and cytotoxic effect of <i>Macrotyloma uniflorum</i> leaf extract. Advances of Pharmacology and Pharmacy, 2023	SCI
16	Tanti GK, Pandey P, Shreya S, Jain BP* , Striatin family proteins: The neglected scaffolds. Biochim Biophys Acta Mol Cell Res. 2023 Mar; 1870(3):119430. doi: 10.1016/j.bbamcr.2023.119430. Epub 2023 Jan 10. PMID: 36638846	5.1
17	Singhal S [#] , Bhadana R [#] , Jain BP[#] , Gautam A, Pandey S, Rani V. Role of gut microbiota in tumorigenesis and antitumoral therapies: an updated review. Biotechnol Genet Eng Rev. 2023 Jan 12:1-27. doi: 10.1080/02648725.2023.2166268. [#] Joint first author.	4.2
18	Tarannum M, Priya R, Pandey S, Jain BP* . Bioinformatics analysis of Geo datasets for identifying pathways and hub genes in Psoriasis. International Journal of Bioinformatics Research and Application. 2023, 19(3): 186-199. https://doi.org/10.1504/IJBRA.2023.133703 .	SCOPUS
19	Shreya S, Shekher A, Puneet, Prasad SB, Jain BP* . Haematological and biochemical analysis of blood samples from early and late-stage breast cancer patients in India. Bioinformation 19(7): 806-809 (2023).	1.9
20	Mir FA, Amanullah A, Jain BP , Hyderi Z, Gautam A. Neuroepigenetics of ageing and neurodegeneration-associated dementia: An updated review. Ageing Res Rev. 2023 Sep 9;91:102067. doi: 10.1016/j.arr.2023.102067.	13.1
21	Shreya S, Grosset CF, Jain BP* . Unfolded Protein Response Signaling in Liver Disorders: A 2023 Updated Review. Int J Mol Sci. 2023 Sep 14;24(18):14066. doi: 10.3390/ijms241814066. PMID: 37762367;	5.6
22	Shreya S, Alam J, Anupriya, Jaiswal S, Rani V, Jain BP* . Lipotoxicity, ER stress and cardiovascular disease: Current understanding and future directions. In Press in Cardiovascular and hematological agents in medicinal chemistry.	1.37

*Corresponding Author.

9. INVITED TALKS:

1. Workshop for review and finalization of entry level module for augmenting learning of science at secondary level in Hindi medium, organized by Regional Institute of Education, Ajmer (NCERT) from Feb 11-15, 2019 (**Invited as resource person**).
2. National Seminar on Innovative Measures for Enhancement and sustenance of Quality Education in Higher Education Institutes organized by IQAC, Govt E Raghvendra Rao PG Science College Bilaspur (C.G). June 14-15, 2022. (**Invited talk**).
3. Workshop on Capacity Building Programme for SRGs of Northern Region on attainment of Learning Outcomes through ICT Integrated Pedagogy at Secondary stage" at **Regional Institute of Education Ajmer**. December 05-09, 2022. (**Invited as resource person**).
4. International Seminar on Advances in Precision Oncology at **Dr. Bhimrao Ambedkar University Agra**. January 21, 2023. (**Invited talk**).

10. RESEARCH PROJECTS (COMPLETED / ONGOING):

S No	Title	Funding agency	Role	Amount	Start date	End date
1	Molecular analysis of Unfolded Protein Response signaling during Breast cancer progression	ICMR Extramural grants	Principal Investigator	20,60,000 INR	29.03.2021	28.03.2024

11. PRESENTATIONS IN WORKSHOPS/CONFERENCES:**COURSES AND WORKSHOPS ATTENDED**

- Attended National Workshop on **Plagiarism** organized at JNU New Delhi in collaboration with INFLIBNET.
- **Training course on handling of laboratory animals** Mice, Rat and Rabbit, organized by Central Laboratory Animal Resources, School of Life Sciences, JNU New Delhi.

PAPER PRESENTED AT CONFERENCES AND WORKSHOP

1. **Buddhi Prakash Jain**, Goutam Kumar Tanti and Shyamal K. Goswami, Possible role of SG2NA in Sporadic Parkinsonism, 8th National research scholar meet, 21-22 Dec, 2012, ACTREC Mumbai.
2. **Buddhi Prakash Jain** and Shyamal K. Goswami, Regulation of expression of Mouse SG2NA in different tissues by alternative splicing, editing and polyadenylation. 82nd annual meeting of Society of Biological Chemists and International symposium on Genomics, University of Hyderabad, Hyderabad, 2-5 Dec, 2013.
3. **Buddhi Prakash Jain**, Goutam Kumar Tanti and Shyamal K. Goswami, Tissue Specific Expression of SG2NA is regulated by Differential Splicing, RNA Editing and Differential Polyadenylation, 38th Annual conferences of All India Cell Biology and International symposium on Cellular Drug, CDRI, Lucknow (U.P.), 10-12 Dec, 2014.
4. **Buddhi Prakash Jain**, Manish Sharma and Shyamal K. Goswami, Regulation of SG2NA expression and its associated kinase network analysis, Annual meeting of American Society of Cell Biology, San Diego, USA 12-16 Dec 2015.
5. **Buddhi Prakash Jain** and Shyamal K. Goswami, SG2NA: An intrinsic regulator to maintain Endoplasmic Reticulum (ER) homeostasis, EMBO Proteostasis workshop, Ericeira, Portugal 17-21 Nov 2017.
6. **Buddhi Prakash Jain** and Shyamal K. Goswami, Regulation of expression of SG2NA isoforms in human cancer cell lines, Annual meeting of American Society of Biochemistry and Molecular Biology (Experimental Biology 2019), Orlando FL USA, 6-9 April 2019.
7. **Buddhi Prakash Jain**, Padmini Bisoyi and Shyamal K Goswami. The expression profile of scaffold protein SG2NA in various cancer types and study of its interactome

in breast cancer tissue at Annual conference of European Association of Cancer Research. June 20-23, 2022. **Seville, Spain.**

8. **Buddhi Prakash Jain**, Smriti Shreya, ShyamBabu Prasad, Anushmita Shekhar, Puneet. Haematology and biochemical profiling of serum from different stages of breast cancer patients at International Conference on Advances in Biosciences & Biotechnology. January 18-20, 2023. **Jaypee Institute of Information Technology, Noida.**

12. AWARDS, FELLOWSHIPS & OTHER DISTINCTIONS:

S.No.	Name of Award	Awarding agency	Year
1.	CSIR JRF	Council of Scientific and Industrial Research (CSIR), New Delhi	2010
2.	Gold Medal in M.Sc.	University of Rajasthan Jaipur	2011
3.	International travel Award	Department of Science and Technology (DST Govt. of India	2015
4.	Travel fellowship	Centre for International Co-operation in Science (CICS), India	2015
5.	Travel Award	European Molecular Biology Organization (EMBO)	2017
6.	Travel Award	Immunology Foundation, New Delhi	2017
7.	International travel Award (Young Scientist)	Department of Science and Technology (DST Govt. of India	2019
8	International travel Award (Young Scientist)	Department of Science and Technology (DST Govt. of India	2022
9	Travel Award	Immunology Foundation, New Delhi	2022
10	Best Oral Presentation	International Conference on Advances in Biosciences & Biotechnology at Jaypee Institute of Information Technology, Noida.	2023

BUDDHI PRAKASH JAIN

(Name of Faculty)