

Johiruddin Molla

Assistant Professor (Botany), Ghatal Rabindra Satabarsiki Mahavidyalaya, Vidyasagar University, West Bengal, India

CONTACTS & LINKS

Mailing address: Joygram, North 24 Parganas, West Bengal-743425, India

Cell no.: +917003593528

e-mail: johiruddinmolla@gmail.com, jmolla@grsm.ac.in

Linkedin: <https://www.linkedin.com/mynetwork/>

Researchgate: <https://www.researchgate.net/>

Google scholar:

<https://scholar.google.com/citations?user=JpPG44IAAAAJ&hl=en>

College website: <https://www.grsm.ac.in/Sites/Site2/Department?id=13>

EDUCATION

- | | |
|------|---|
| 2015 | B. ED in Life Science , Rahara Ramkrishno Mission Brhammananda College of Education, West Bengal, India |
| 2012 | M. Sc. in Botany (Specialization: Genetics and Tissue culture), West Bengal State University, India |
| 2010 | B. Sc. (Botany honours, Chemistry, Zoology) , City College, University of Calcutta
(Ranked 1 st in City College) |

PROFESSIONAL EXPERIENCE

- | | |
|--|---|
| 6 th September 2019 – Present | Assistant Professor, Head of the Department,
Department of Botany,
<i>Ghatal Rabindra Satabarsiki Mahavidyalaya, West Bengal, India</i> |
| September 2017 – August 2019- | Junior Research Fellow ,
International Crop Research Institute for Semi-Arid Tropics (ICRISAT),
Hyderabad, India
Worked with Prof. RK Varshney |
-

TEACHING EXPERIENCE

- | | |
|---|---|
| 6 th September 2019- present | Botany Honours and General course (Undergraduate) |
|---|---|

2022- present	Provided free weekend life science coaching to low-income students (B.Sc, XI and XII). For National Eligibility Test (NET)-Life Science, Graduate level Aptitude Test in Engineering (GATE)-Life Science and NEET
5 th November 2022- 27 th December 2022	Trained for 2 months and conducted final exam for the 60 students of NETAJI SUBHAS OPEN UNIVERSITY (NSOU)

RESEARCH EXPERIENCE (Other than in regular position)

March 2012 – May 2012	M. Sc. thesis entitled “comparative assessment of some antioxidants, their scavenging ability and polymorphic evidences in respect to their adaptation of two halophytes from Indian Sundarbans” supervised by Dr. Paromita Nandi, Barasat Goernment College and Dr. Sauren Das, associate scientist in Agriculture and Ecological research unit of INDIAN STATISTICAL INSTITUTE (ISI), KOLKATA .
22 nd April – October 2013.	Worked as “ Research Assistant ” in a project entitled “Sero diagnosis and molecular characterization of Japanese encephalitis virus amongst the AES cases in the district of West Bengal” under the supervision of Dr. Shyamelendu Chatterjee at ICMR-NICED, Beliaghata, West Bengal, India .
January 2016 – July 2016	Worked on NANO-BIOLOGY as a research scholar under Prof. Krishnendu Acharya, Department of Mycology, Calcutta University, Kolkata

PUBLICATION

Peer Reviewed Journal Publications

(https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=johiruddin+molla&oq=johiru)

1. Molla, K. A., Karmakar, S., **Molla, J.**, Bajaj, P., Varshney, R. K., Datta, S. K., & Datta, K. (2020). Understanding sheath blight resistance in rice: the road behind and the road ahead. ***Plant biotechnology journal***, 18(4), 895-915.
2. Slavounos, A., Roussos, P., Milla, S., Kostas, P., Samaras, Y., Pozzi, C., **Molla J ...** & Voloudakis, A. (2022). Genetic diversity of fig (*Ficus carica* L.) germplasm from the Mediterranean basin as revealed by SSR markers. ***Genetic Resources and Crop Evolution***, 1-12.
3. Karmakar, S., Molla, K. A., & **Molla, J.** (2020). Genetic engineering and genome editing strategies to enhance diseases resistance of rice plants: a review of progress and future

- prospects. *Rice Research for Quality Improvement: Genomics and Genetic Engineering: Volume 2: Nutrient Biofortification and Herbicide and Biotic Stress Resistance in Rice*, 35-59.
4. Saxena, R. K., **Molla, J.**, Yadav, P., & Varshney, R. K. (2020). High resolution mapping of restoration of fertility (Rf) by combining large population and high density genetic map in pigeonpea [*Cajanus cajan* (L.) Millsp]. *BMC genomics*, 21, 1-8.
 5. Sinha, P., Singh, V. K., Saxena, R. K., Khan, A. W., Abbai, R., Chitikineni, A., **Molla J...** & Varshney, R. K. (2020). Superior haplotypes for haplotype-based breeding for drought tolerance in pigeonpea (*Cajanus cajan* L.). *Plant Biotechnology Journal*, 18(12), 2482-2490.
 6. Sen, S., Sengupta, P., **Molla, J.**, Mukherjee, K., & Acharya, K. (2018). Management of postharvest green mold decay in common mandarin and Indian gooseberry with *Bacillus licheniformis* SR-14. *Journal of Applied Horticulture*, 20(2).
 7. Saxena, R. K., Kale, S., Mir, R. R., Mallikarjuna, N., Yadav, P., Das, R. R., **Molla J...** & Varshney, R. K. (2020). Genotyping-by-sequencing and multilocation evaluation of two interspecific backcross populations identify QTLs for yield-related traits in pigeonpea. *Theoretical and Applied Genetics*, 133, 737-749.
 8. Kinhoégbè, G., Djèdatin, G., Saxena, R. K., Chitikineni, A., Bajaj, P., **Molla, J.**, ... & Varshney, R. K. (2022). Genetic diversity and population structure of pigeonpea (*Cajanus cajan* [L.] Millspaugh) landraces grown in Benin revealed by Genotyping-By-Sequencing. *Plos one*, 17(7), e0271565.

Book Chapter

1. Molla, K. A., Karmakar, S., **Molla, J.**, Azharudheen, T. M., & Datta, K. (2018). *Oryza Neocaledonica* Morat. *The Wild Oryza Genomes*, 203-206.
2. Molla, K. A., Karmakar, S., **Molla, J.**, Azharudheen, T. M., & Datta, K. (2018). *Oryza meyeriana* Baill. *The Wild Oryza Genomes*, 183-192.

Poster presentation

1. Presented a poster entitled “ MutMap for 100 seed weight and seed color in pigeonpea (*Cajanus cajan* (L.) Millsp) at “INTERNATIONAL CONFERENCE ON INTEGRATIVE BIOLOGY & APPLIED GENETICS” ICIBAG-2018 organized by department of genetics & biotechnology on 15th – 18th March, 2018.
2. Presented a poster entitled “Popularization of mushroom cultivation, its medicinal values, and trade for socio-economic development of rural areas” in two days national seminar organized by Mugberia Gangadhar Mahavidyalya, Bhupatinagar, Purba Medinipur, West Bengal.

Govt. Job offered but not joined

1. Appointed as an Assistant professor at Darjeeling Government College (Reference No. 720-Edn(A)/4A-5/21 (7) dated, Kolkata, 30.07.2021 conducted by West Bengal Public Service Commission.

2. Appointed as an Assistant Teacher at West Bengal Government School conducted by West Bengal Public Service Commission.
3. Appointed as an Assistant Teacher at West Bengal Government-Aided School conducted by West Bengal School Service Commission.

SEMINAR ATTENDED:

1. State level seminar on playing god: expanding frontiers of biotechnology organized by Gurudas College in collaboration with IICB on 6th and 7th November, 2009.
2. INSA award lectures and panel discussion on “**BIOMOLECULAR RESEARCH AND INFORMATICS: FUTURE IN INDIA**” organized by DBT center for bioinformatics on 27th February, 2012, Kolkata, West Bengal, India.
3. “**INTERNATIONAL CONFERENCE ON INTEGRATIVE BIOLOGY & APPLIED GENETICS**” ICIBAG-2018 organized by department of genetics & biotechnology, Osmania University on 15th – 18th March, 2018.
4. Participated in the **100th Indian Science Congress** held at Calcutta University, Kolkata from January 3 to 7, 2013.
5. Participated in 45th anniversary of ICRISAT. On that day ICRISAT organized international seminar on “Science of discovery to delivery” held on 2017, Patancheru, Telengana, India.

PERSONAL SKILL DEVELOPMENT COURSE:

1. Certified on “**COMMUNICATION TO COLLABORATION**” as set forth by Dale Carnegie and Associates, Inc. in June 2017.
2. Certified on “**CREATING A PROFESSIONAL DEMEANOR**” as set forth by Dale Carnegie and Associates, Inc. in October 2017.

COMPUTER SKILL

1. Completed “**Diploma course on “Information Technology Application”** (DITA) from April, 2007 to March, 2008 in COMPUTER TRAINING INSTITUTE STATE YOUTH CENTER.

SYMPOSIUM ATTENDED:

1. Plant science symposium- 2018 “climate is changing, agriculture must too” from 6 to 7 September, 2018 organized by the students of International Crop Research institute for semi-arid tropics (ICRISAT), Patancheru, Telengana, India.

SYMPOSIUM ORGANIZED:

1. Plant science symposium- 2018 “Climate is changing, agriculture must too” from 6 to 7 September, 2018 organized by the students of International Crop Research Institute for semi-arid tropics (ICRISAT), Patancheru, Telengana, India.

MANUSCRIPT UNDER COMMUNICATION

1. Laxmi Kumari Gupta, **Johiruddin Molla** and Ashish A. Prabhu “Story of Pore-forming proteins from deadly disease-causing agents to modern applications with evolutionary significance”
2. Laxmi Kumari Gupta, **Johiruddin Molla** and Ashish A. Prabhu “An update of Aerolysin pore forming protein: Structure, Function, Evolutionary significance and application”
3. Niharika Mohanty Happy, **Johiruddin Molla, et al.** “Analysis of variance, genetic variability, correlation studies and population structure for grain number and related traits in recombinant lines of rice”.

AWARDS, HONOURS, AND FELLOWSHIPS

Year	Award name/National level exam qualified	Awarding body
2016	CSIR-NET-Junior Research Fellowship And lectureship (Through all India competitive exam)	By Council of Scientific and Industrial Research, New Delhi
2016 (25 th August)	SET	West Bengal College Service Commission (WBCSC).
2014 (16 th June)	ICAR-NET (Agricultural Biotechnology)	CSIR and UGC
2011	CTET	Central Board of Secondary Education, Delhi
2011	Merit cum Means scholarship	By Govt. of West Bengal, India
2010 (20 TH DECEMBER, 2010)	Certificate of appreciation for Obtaining the highest marks in UG	City College Teachers’ Council

EXTERNAL EXAMINER

2023 Undergraduate course	1. Conducted practical exam. at Narajole Raj College- for 5th sem 3rd sem and 1st sem Botany honours student 2. Conducted practical exam. at gorbheta collge - for 5t sem, 3rd sem and 1st sem. Botany honours student.
---------------------------------	--

WORKSHOP/WEBINAR ATTENDED

Workshop/Webinar	Date	Organized by
1. Hands on training on transmission electron microscope	15-22 February, 2022	ICAR-National Rice Research Institute, Cuttack, INDIA.
2. CRISPR in agriculture: context of improving wue	12 September, 2020	Bioingene.com
3. Integrating genomics for accelerating the rate of genetic gain for chickpea improvement	1st September, 2020	Bioingene.com
4. Women Empowerment	8th March, 2022	Jointly organized by department of Botany and Zoology, Ghatal Rabindra Satabarsiki Mahavidyalay, Paschim Medinipur, West Bengal.
5. স্বাধীনতা-পরবর্তী বাংলা কথাসাহিত্যে গ্রাম ও শহর	24th March, 2022	Department of Bengali, Ghatal Rabindra Satabarsiki Mahavidyalay, Paschim Medinipur, West Bengal.
6. Role of indigenous traditional knowledge herbal drugs in combating against covid-19	8 th August, 2020	Department of microbiology And IQAC, Ashutosh college and Department of Economics and IQAC, Dhrubo Chand Halder College.
7. Taxonomy what, why and how?	20 th August, 2020	Department of Botany and IQAC, Dhrubo Chand Halder College.
8. Plant Diversity In India	20 th September 2020	Department of Botany in Collaboration with IQAC, Bagnan College, Bagnan, Howrah, West Bengal, India
9. Applied mathematics and its application	16-17 June, 2022	Department of Mathematics, Ghatal Rabindra Satabarsiki Mahavidyalay, Paschim Medinipur, West Bengal.

10. Role of indigenous traditional knowledge and herbal drugs in combating against pandemic covid-19	11th September, 2020	Department of Botany and Internal Quality Assurance Cell, Maulana Azad College, Kolkata, West Bengal, India.
11. Faculty Rights and Entitlements: A Series of Lectures	21/11/2020, 30/11/2020, 05/12/2020 and 12/12/2020	IQAC, East Calcutta Girls' College, Kolkata, West Bengal
12. How is CRISPR-Cas accelerating crop improvement	20 th June, 2020	Bioingene.com

WEBINAR ORGANIZED

Convener

- | | |
|-------------------------------|--|
| 2022
28th February | 1. One Day International Webinar on “Advancement of Technology” jointly organized by Department of Zoology, Botany, Physiology and Nutrition, Ghatal Rabindra Satabarsiki Mahavidyalaya. |
| 2022
8 th March | 2. One day international webinar on “Women Empowerment” organized by department of Botany and Zoology, Ghatal Rabindra Satabarsiki Mahavidyalaya. |

ADDITIONAL TRAININGS/WORKSHOPS

- Completed **FACULTY INDUCTION PROGRAMME** from **ALIGARH MUSLIM UNIVERSITY** with grade “A” (from 04 July 2022 to 06 August 2022)

INSTRUMENT HANDLING

- Agarose gel electrophoresis
- Polyacrylamide gel electrophoresis
- Thermal cycler
- Centrifuge
- Fluorescent microscope
- Compound microscope
- Laminar air flow

8. Scintillator
9. Vortex
10. Autoclave
11. Magnetic stirrer
12. -80⁰c, -20⁰c refrigerator
13. UV spectrophotometry

SOFTWARE SKILLS

1. MEGA v11.0.13
2. DARWIN 6
3. STRUCTURE 2.3.4
4. R-STUDIO
5. TESSEL
6. ICIM
7. TBtools
8. STRING
9. ClustalW
10. ITOL
11. NCBI CDD
12. STRUCTURE HARVESTER
13. CB-DOCK
14. SWISSDOCK
15. DOCKTHOR

METHOD KNOWN

1. DNA isolation
2. Protein isolation
3. Enzyme isolation
4. Cell culture (vero cell and c636 cell line)
5. Gel electrophoresis
6. SSR data analysis
7. RAPD data analysis
8. SNP affymetrix data analysis

9. QTL analysis
10. GWAS analysis
11. NAM population analysis
12. MAGIC population analysis
13. Linkage mapping
14. Population structure
15. Molecular docking
16. Drug design
17. Phenotypic co-variance (pcv), Genotypic co-variance (gcv)
18. Nano particle preparation
19. Sample preparation for electron microscope

OTHER recognitions

1. Acted as a poster evaluator in the platinum jubilee inter-school science camp organized by Panchberia RCSS Mandir (HS)
 - 2.
-

INSTITUTE AND OTHER ACADEMIC SERVICE

2022	Member of ITS of Ghatal Rabindra Satabarsiki Mahavidyalaya
2021-2022	Nodal officer , Mass vaccination camp (1 st dose (29/9/2021-3/10/2021 and 2 nd dose 3/1/2022-6/1/2022) for the 3000 thousand students and employee of Ghatal Rabindra Satabarsiki Mahavidyalaya.
2021 to till the date	Member of Sports Committee of Ghatal Rabindra Satabarsiki Mahavidyalaya
2022	Invigilator , Teacher Eligibility Test (TET) held on 11.12.2022 at Ghatal Rabindra Satabarsiki Mahavidyalaya Invigilator , West Bengal State Eligibility Test (WBSET) held at the center Ghatal Rabindra Satabarsiki Mahavidyalaya
2022	Member , AQAR of Ghatal Rabindra Satabarsiki Mahavidyalaya
2023	Nodal officer of undergraduate admission ---onwards
2022	Member of college prospectus development

2023	Convenor of medicinal garden and cactus house
2023	Tabulator of Post graduate marks submission for the subject Mathematics, History, Bengali, Sanskrit, philosophy and Education.
2023	Coordinator of Mushroom cultivation add-on course

COMMUNITY SERVICES

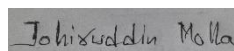
- May 2020 Organized fundraising for Amphan (the worst super cyclone West Bengal has ever experienced in 283 years) affected people. Distributed flood relief among the affected in Sundarban area.
- 2019-2023 Given free coaching, consultancy, and guidance at the weekends to poor and needy students of B.Sc. (Botany) and M.Sc. (Botany) of University of Vidyasagar, NEET coaching for medical aspirant student.

DECLARATION

I hereby declare that, to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience.

Date- 21-04-2023

Place- Kolkata, India



Johiruddin Molla