

CURRICULUM VITAE

Name: Dr. Md Majharul Islam

Designation: Assistant Professor in Botany

Highest qualification: M.Sc., Ph.D.

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Date of joining to this institution*: 02/01/2025

Date of joining W.B.E.S.: 02/01/2025

Previous position(s) held/ Additional charges (if any): NA

Teaching experience in years & months: 2 years

Fellowship, Awards, Recognition and Honours (if any):

- Postdoctoral Research Associate-1 at Indian Institute of Science, Bangalore
- CSIR-UGC NET Senior Research Fellow
- CSIR-UGC NET Junior Research Fellow
- Senior Research Fellow under the Emiritus Scientist Scheme (EAP-243) ICAR-NATIONAL RICE RESEARCH INSTITUTE, Cuttack-753006 (ODISHA), INDIA
- Swami Vivekananda Merit Cum Means Fellow

Courses Taught:

- Under Graduate (B.Sc. in Botany): Both CBCS system and FYUP
- Post Graduate (M.Sc. in Botany)

Research area/ interest:

- To investigate rhizospheric and endophytic bacteria to evaluate their function in antibiosis or mutualism and plant growth-promoting activity.
- To investigate the antimicrobial activities of naturally derived compound.
- To study the bacterial taxonomy and molecular systematics.

List of publications-

*Peer reviewed journals:

1. **Islam, M.M.**, Saha, S., Sahoo, P., Mandal, S. (2024) Endophytic *Streptomyces* sp. MSARE05 isolated from roots of Peanut plant produces a novel antimicrobial compound. **J Appl Microbiol**, 1;135(3):lxae051. doi: 10.1093/jambio/lxae051. **IF-4.0**
2. **Islam, M.M.**, Jana, S.K., Sengupta, S., Mandal, S. (2024) Impact of Rhizospheric Microbiome on Rice Cultivation. **Curr Microbiol** **81**, 188. <https://doi.org/10.1007/s00284-024-03703-y>. **IF-2.4**
3. **Islam, M.M.**, Mandal, S. (2024) Unveiling growth-promoting attributes of peanut root endophyte *Micromonospora* sp. **Arch Microbiol**, Mar 19;206(4):182. doi: 10.1007/s00203-024-03886-9. **IF-2.3**
4. **Islam, M. M.**, Sarkar, B., Maiti, P. K., Das, S., Dam, P., Mondal, R., Biswas, T., Sadat, A., Chakraborty, A. P., Gangopadhyay, D., Mandal, S., Kati, A., & Mandal, A. K. (2022). Draft Genome Sequence of an Endophytic *Micromonospora* sp. Strain, ANENR4, Isolated from the Root of a Peanut Plant (*Arachis hypogaea*). **Microbiology resource announcements** 11(11), e0065522. <https://doi.org/10.1128/mra.00655-22>. **IF-0.87**
5. **Islam, M. M.**, Bhattacharya, R., Sarkar, B., Maiti, P. K., Mahanty, S., Chaudhuri, P., Biswas, S. R., & Mandal, S. (2021) Different soil salinity imparts clear alteration in rhizospheric bacterial community dynamics in rice and peanut. **Archives of microbiology**, 204(1), 36. <https://doi.org/10.1007/s00203-021-02695-8>. **IF-2.3**
6. Jana, S. K., **Islam, M. M.**, Hore, S., Mandal, S. (2023) Rice seed endophytes transmit into the plant seedling, promote plant growth and inhibit fungal phytopathogens. **Plant Growth Regulation**, 99:373–388. <https://doi.org/10.1007/s10725-022-00914-w>. **IF-3.5**
7. Jana, S. K., **Islam, M. M.**, & Mandal, S. (2022) Endophytic Microbiota of Rice and Their Collective Impact on Host Fitness. **Current microbiology**, 79(2), 37. <https://doi.org/10.1007/s00284-021-02737-w>. **IF-2.4**
8. Raut, J., **Islam, M. M.**, Saha, S., Mandal, S. M., Mandal, S., Sahoo, P. (2022) N-Doped carbon quantum dots for differential detection of doxycycline in pharmaceutical sewage and in bacterial cell. **ACS Sustainable Chemistry & Engineering**, 10, 9811–9819. **IF-**

7.1

9. Raut, J., **Islam, M. M.**, Sherpa, R. D., Sarkar, B., Mandal, S. M., Hui, S. P., Mandal, S., & Sahoo, P. (2022) Cobalt-conjugated carbon quantum dots for in vivo monitoring of the pyruvate dehydrogenase kinase inhibitor drug dichloroacetic acid. **Scientific reports**, 12(1), 19366. <https://doi.org/10.1038/s41598-022-22039-w>. **IF-3.8**
10. Mandal, S., **Islam, M. M.**, Ghosh, P., Mandal, S., Sahoo, P. (2023) Reliable Detection of Fluoroquinolones in Pharma-effluents: Increasing Exposure in Environment Triggers Rise of Antimicrobial Resistance. **ChemistrySelect**, 8, e202203353 <https://doi.org/10.1002/slct.202203353>. **IF- 1.9**
11. Kundu, S., **Islam, M. M.**, Mandal, S., Sahoo, P. (2021) Fluorescence ‘off–on–off’ signaling with zinc ensemble: a new array of investigating prevalence of ATP in liver cancer cells. **New Journal of Chemistry**, 45(6) 3188–3192; <http://dx.doi.org/10.1039/D1NJ00051A>. **IF-2.7**
12. Mandal, M., Sain, D., **Islam, M. M.**, Banik, D., Periyasamy, M., Mandal, S., Mahapatra, A. K. (2021) A ratiometric triazine-based colorimetric and fluorometric sensor for the recognition of Zn²⁺ ions and its application in human lung cancer cells. **Analytical Methods**, 13, 3922. **IF-3.5**
13. Mandal S., Pramanik, K., Das, S., **Islam, M. M.**, Mandal, S., Sahoo, P. (2022) Spectroscopic and Computational Studies on a Dansyl Based Luminescent Probe: Detection of Water Contaminant in Hygroscopic Deuterated Solvents, **Letters in Organic Chemistry**, 2022; 19(1). <https://dx.doi.org/10.2174/1570178618666210610161531>. **IF-0.7**
14. Bag, R., Sikdar, Y., Sahu, S., **Islam, M. M.**, Mandal, S., Goswami, S. (2022) Benzimidazole-acid hydrazide Schiff–Mannich combo ligands enable the nano-molar detection of Zn²⁺ in semi-aqueous media, HuH-7 cells, and plants via a fluorescence turn-on mode. **New Journal of Chemistry**, 46(33): 16161-16171. Doi=10.1039/D2NJ02875A. **IF-2.7**
15. Bag, R., Sikdar, Y., Sahu, S., **Islam, M. M.**, Mandal, S., Goswami, S. (2023) Experimental and Theoretical Exploration of ESIPT in a Systematically Constructed Series of Benzimidazole Based Schiff Base Probes: Application as Chemosensors. **Chemistry - A European Journal**, 29(22), e202203399. <https://doi.org/10.1002/chem.202203399>. **IF-4.3**
16. Ghosh, P., Mandal, S., Kundu, S., Saha, S., Sherpa, R. D., **Islam, M. M.**, Hui, S. P., Mandal, S., & Sahoo, P. (2023) In vivo 'turn on' fluorescence detection of free cysteine in zebrafish kidney and liver. **Journal of photochemistry and photobiology, B, Biology**, 245, 112747. Advance online publication

<https://doi.org/10.1016/j.jphotobiol.2023.112747>. **IF-3.9**

Published Book Chapter

1. Patra, D., **Islam, M. M.**, Das, P., Jana, S., Mandal, S. (2023) Importance of endophytes and mechanisms of their interactions with host-plants. Book: Endophytic Association: What, Why and How. 20:409-435, ISBN 9780323912457. <https://doi.org/10.1016/B978-0-323-91245-7.00012-2>

Google Scholar link: <https://scholar.google.com/citations?user=w8uQNDIAAAAJ&hl=en>

ResearchGate link: <https://www.researchgate.net/profile/Md-Islam-1190>

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