

Romit Majumder



Contact

Address:

78/V J.N. Lahiri Road,
Serampore, Hooghly, West
Bengal, India

Email:

rmphys_rs@calunic.ac.in

ResearchGate:

[https://www.researchgate.net/
profile/Romit_Majumder](https://www.researchgate.net/profile/Romit_Majumder)

Google Scholar:

[https://scholar.google.com/cita
tions?hl=en&user=T4aub1EAAA](https://scholar.google.com/citations?hl=en&user=T4aub1EAAA)
[AJ](#)

Languages

English
Hindi
Bengali

Hobbies

Photography
Reading Books
Graphic Designing

Academic Qualifications

- **MSc. in Human Physiology (Biochemistry special):** 79.1%
University College of Science, Technology & Agriculture - University of Calcutta, 2018.
- **BSc. in Human Physiology (Hons), Chemistry & Zoology:** 73.25%
(Ranked 6th in University)
Serampore College University of Calcutta, 2016.

Research Experience

- **Ph.D. Student (Under guidance of Dr. Aindrila Chattopadhyay & Prof. Debasish Babndyopadhyay):** Department of Physiology, Vidyasagar College and UCSTA, University of Calcutta | Date of Enrollment: 13.08.2019 | Date of Registration: 23.08.2021.
- **Research Trainee (Under guidance of Prof. Debasish Bandyopadhyay):**
Department of Physiology, University of Calcutta, August 2018 - July 2019.

Awards and achievements

- Best paper award in Public Health Category, conferred by Springer Nature, 2024.
- Qualified the all India Graduate Aptitude Test for Engineers - Life Sciences, 2020.
- Recipient of the Swami Vivekananda MCM Scholarship (Ph.D.), 2021-present.
- Recipient of the Swami Vivekananda MCM Scholarship (PG), 2017-2018.
- Secured second position at the seminar competition, Seramore College, University of Calcutta, 2016.
- Recipient of Late Amarendranath Banerjee Memorial Prize 2016 (For securing 80% and above in part 1 & 2 in Human Physiology Practical Examination - University of Calcutta).
- Medal of Appreciation for achieving first class in BSc. (Human Physiology), 2016.

Skill Highlights

Laboratory Techniques

- **Molecular Biology:** PCR, qPCR, RT-PCR, DNA/RNA extraction, gel electrophoresis.
- **Protein Analysis:** Western blotting, ELISA, chromatography.
- **Microscopy:** Fluorescence microscopy, confocal microscopy, electron microscopy.
- **Spectroscopy:** UV-Vis, NMR, IR, fluorescence, circular dichroism.
- **Histological Preparations and Staining:** IF, HE, PAS, Picrosirius Red.

Bioinformatics

- **Molecular Docking:** Maestro, PyRx.
- **Database Management:** Working with biological databases like NCBI, EMBL, UniProt, PDB. laboratory techniques.

Certifications

- Clinical Trials: Introduction to Good Clinical Practice, **Novartis**, Basel, 2025.
- Experimental methods in systems biology, **Icahn School of Medicine, Mount Sinai**, New York, 2020.
- Data analysis using Python, **Department of Statistics, University of Lucknow**, Lucknow, 2020.
- Next-Generation Sequencing & Data analysis, **Centre of Excellence in Bioinformatics, University of Lucknow**, Lucknow, 2018.

Seminars and Conferences

- Organized, Participated and presented at the HWWWE 2024 International Conference, Kolkata, 2024.
- Participated and presented 108th Indian Science Congress, Medical Sciences (Including Physiology), 2023.
- Participated and presented at the Two day National Conference on Sustainable Health science for future Generations, 2022.
- Participated and presented at Annual Conference of The Physiological Society of India (PHYSICON), 2022.
- Participated and presented at One Day International Webinar on Contemporary Innovation and Challenges in Modern Biology, 2021.
- Attended, International webinar on Translational Physiology: from Cell to System, 2020.
- Participated and presented at India International Science Festival: Health Research Conclave, 2019.
- Attended, National Symposium on Current Trends in Physiology & Research, 2018.
- Participated in the American Association of Physicians of Indian Origin: Global Healthcare Summit, 2017.
- Attended, National Symposium on Molecular Aspects of Human Diseases, 2016.

Publications

- **Majumder, R.**, Datta, M., Banerjee, A., Roy, T., Bandyopadhyay, A., Bandyopadhyay, D., & Chattopadhyay, A. (2025). Possible role of the mitochondrial pyruvate dehydrogenase in ketorolac mediated onset and progression of gastric ulcers in male Wistar rats: Protection by melatonin. *Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease*, 167908.
- Ghosh, P., Datta, M., **Majumder, R.**, Chattopadhyay, A., & Bandyopadhyay, D. (2024). Melatonin protects against chromium induced oxidative stress-mediated changes in energy metabolism of rat hepatic, cardiac and renal tissues. *Advances in Redox Research*, 12, 100110.
- Datta, M., **Majumder, R.**, Banerjee, A., Bandyopadhyay, D., & Chattopadhyay, A. *Food and Chemical Toxicology*, 2024. Melatonin protects against diclofenac induced oxidative stress mediated myocardial toxicity in rats: a mechanistic insight.
- Mukhopadhyay, M., Banerjee, A., **Majumder, R.**, Chattopadhyay, A., & Bandyopadhyay, D. *Advances in Redox Research*, 2024. Ameliorative role of melatonin against adrenaline induced oxidative stress mediated cardiac and hepatic tissue injuries through preserving pyridoxine metabolism in male Wistar rats: A mechanistic insight.
- **Majumder, R.**, Datta, M., Banerjee, A., Bandyopadhyay, D., & Chattopadhyay, A. *Chemico-Biological Interactions*, 2023. Melatonin protects against ketorolac induced gastric mucosal toxic injuries through molecular mechanism associated with the modulation of Arylalkylamine N-Acetyltransferase (AANAT) activity.
- Das, D., Das, A., Islam, S., Das, A. R., Banerjee, A., **Majumder, R.**, & Bandyopadhyay, D. *Organic Letters*, 2023. Fused Furan Moieties from Enol-like Compounds and β -Keto Sulfoxonium Ylides Involving sp² C–H Activation and Concomitant Tandem C–O Annulation.
- Banerjee, A., Dey, T., **Majumder, R.**, Bhattacharya, T., Dey, S., Bandyopadhyay, D., & Chattopadhyay, A. *Free Radical Biology and Medicine*, 2023. Oleic acid prevents erythrocyte death by preserving haemoglobin and erythrocyte membrane proteins.
- Ghosh, P., Dey, T., **Majumder, R.**, Datta, M., Chattopadhyay, A., & Bandyopadhyay, D. *Food and Chemical Toxicology*, 2023. Insights into the antioxidative mechanisms of melatonin in ameliorating chromium-induced oxidative stress-mediated hepatic and renal tissue injuries in male Wistar rats.
- Ghosh, P., Dey, T., **Majumder, R.**, Datta, M., Chattopadhyay, A. & Bandyopadhyay, D. *Melatonin Research*, 2023. Melatonin attenuates cardiac injury caused by chromium-mediated oxidative stress in male Wistar rats: involvement of antioxidative mechanisms.
- Sarkar, A., Saha, M., Das, A.R., Banerjee, A., **Majumder, R.** & Bandyopadhyay, D., *ChemistrySelect*, 2022. Hypervalent iodine mediated Pd (II)-catalyzed ortho-C (sp²-H) functionalization of azoles deciphering Hantzsch ester and malononitrile as the functional group surrogates.
- Datta, M., **Majumder, R.**, Chattopadhyay, A. & Bandyopadhyay, D. *Melatonin Research*, 2022. Melatonin as a protective adjunct to the renin angiotensin system imbalance induced cardiovascular pathogenesis: A review.
- Mukhopadhyay, M., **Majumder, R.**, Banerjee, A. & Bandyopadhyay, D. *Melatonin Research*, 2022. A comparative overview on the role of melatonin and vitamins as potential antioxidants against oxidative stress induced degenerative infirmities: An emerging concept.
- **Majumder, R.**, Datta, M., Sarkar, S., Chattopadhyay, A. and Bandyopadhyay, D. *Melatonin Research*, 2022. The bacteriostatic property of melatonin targets peptic ulcer disease and cholangiocarcinoma.
- Datta, M., **Majumder, R.**, Chattopadhyay, A. and Bandyopadhyay, D. *Melatonin Research*, 2021. Protective effect of melatonin in atherosclerotic cardiovascular disease: A comprehensive review.
- **Majumder, R.***, Datta, M.*, Pal, P. K., Bhattacharjee, B., Chattopadhyay, A., & Bandyopadhyay, D. (2019). Protective mechanisms of melatonin on caprine spleen injury induced by cadmium (Cd): an in vitro study. *Melatonin Research*, 2(3), 57-75.