

# MADHURI DATTA

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## Personal Profile

- Date of Birth : 20/07/1994
- Marital Status : Single
- Nationality : Indian
- Known Languages : English, Bengali, Hindi

## Academics

- University College of Science, Technology and Agriculture (University of Calcutta)  
M.Sc in Human Physiology with 76.7%  
2018
- Rammohan College (University of Calcutta)  
B.Sc in Human Physiology with 60.5%  
2016

## Ph.D. Details

- Date of Enrolment – 13<sup>th</sup> August, 2019.
- Date of Registration – 23<sup>rd</sup> August, 2021.
- Fellowship – Swami Vivekananda Merit Cum Means Fellowship
- Supervisor – Dr. Aindrila Chattopadhyay, Associate Professor, Department of Physiology, Vidyasagar College.
- Associate Supervisor – Prof. Debasish Bandyopadhyay, Professor, Department of Physiology, University of Calcutta.

## Publications

1. 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.
2. Datta, M., Majumder, R., Banerjee, A., Bandyopadhyay, D. and Chattopadhyay, A., 2024. Melatonin protects against diclofenac induced oxidative stress mediated myocardial toxicity in rats: a mechanistic insight. *Food and Chemical Toxicology*, p.114813.

3. Majumder R, Datta M, Banerjee A, Bandyopadhyay D, Chattopadhyay A. (2023). Melatonin protects against ketorolac induced gastric mucosal toxic injuries through molecular mechanism associated with the modulation of Arylakylamine N-Acetyltransferase (AANAT) activity. *Chemico-Biological Interactions*; 382:110611.
4. Ghosh, P., Dey, T., Majumder, R., Datta, M., Chattopadhyay, A., & Bandyopadhyay, D. (2023). Insights into the antioxidative mechanisms of melatonin in ameliorating chromium-induced oxidative stress-mediated hepatic and renal tissue injuries in male Wistar rats. *Food and Chemical Toxicology*, 173, 113630.
5. Ghosh, P., Dey, T., Majumder, R., Datta, M., Chattopadhyay, A., & Bandyopadhyay, D. (2023). Melatonin attenuates cardiac injury caused by chromium-mediated oxidative stress in male Wistar rats: involvement of antioxidative mechanisms. *Melatonin Research*, 6(1), 79-101.
6. Datta M, Majumder R, Chattopadhyay A, Bandyopadhyay D. Melatonin as a protective adjunct to the renin angiotensin system imbalance induced cardiovascular pathogenesis: A review. *Melatonin Research*. 2022 ;5(2):154-70.
7. Majumder R, Datta M, Sarkar S, Chattopadhyay A, Bandyopadhyay D. The bacteriostatic property of melatonin targets peptic ulcer disease and cholangiocarcinoma. *Melatonin Research*. 2022 ;5(1):1-7.
8. Datta, M., Majumder, R., Chattopadhyay, A., & Bandyopadhyay, D. (2021). Protective effect of melatonin in atherosclerotic cardiovascular disease: A comprehensive review. *Melatonin Research*, 4(3), 408-430.
9. Majumder R, Datta M, Chattopadhyay A, Bandyopadhyay D. Melatonin promotes gastric healing by modulating the components of matrix metalloproteinase signaling pathway: a novel scenario for gastric ulcer management. *Melatonin Research*, 2021, 4(2): 213-231.
10. Majumder R, Datta M, Pal PK, Bhattacharjee B, Chattopadhyay A, Bandyopadhyay D. Protective mechanisms of melatonin on caprine spleen injury induced by cadmium (Cd): an in vitro study. *Melatonin Research*, 2019, 212(3): 57-75.

## Seminars and Conferences attended

- Organized, Participated and presented at the HWWE 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 and participated, International webinar on Translational Physiology: from Cell to System, 2020.
- Attended, India International Science Festival: Health Research Conclave, 2019.
- Attended, National Symposium on Current Trends in Physiology & Research, 2018.