

## **DR. ARUN MUKHERJEE**

Assistant Professor

M.Sc. (Zoology); Ph.D.

Email: [arunmukherjee@tdbcollege.ac.in](mailto:arunmukherjee@tdbcollege.ac.in)

### » **Overview:**

Dr. Arun Mukherjee completed his B.Sc. in Zoology (Hons.) from Durgapur Government College (Burdwan University) in 2009. He also completed M.Sc. with specialization in Mammalian Reproductive Physiology from Banaras Hindu University (BHU) in 2011. Thereafter, he was actively involved in research work while pursuing Ph.D. Degree in the topic: Role of melatonin membrane receptor in regulation of testicular steroidogenesis and oxidative stress in golden hamster, *Mesocricetus auratus*. He was awarded the Ph.D. degree in 2016 from BHU, Varanasi, UP. He joined this institution on 3rd January, 2017 as Assistant Professor (WBCSC) in the Department of Zoology.

### » **Date of appointment to the present job:**

3<sup>rd</sup> January, 2017

### » **Other Academic/ Administrative post:**

- Member, IQAC, T. D. B. College, Raniganj

### » **Academic background:**

- 10th from W.B.B.S.E in 2004. (Secured 81.75%).
- 12th from W.B.C.H.S.E in 2006. (Secured 72.3%).
- B.Sc. (ZOOLOGY) from University of Burdwan, Burdwan (W.B) in 2009. (Secured 61.75% in honours subject)
- M.Sc. (ZOOLOGY, Specialization in Mammalian Reproductive Physiology and Molecular Endocrinology) from Banaras Hindu University, Varanasi (U.P) in 2011. (Secured 77.9%).
- Qualified CSIR-UGC National Eligibility Test (NET) in 2010.
- Ph.D. (Zoology) in Neuroendocrinology and Reproductive Biology from Banaras Hindu University, Varanasi (U.P) in 2016.

### » **Information about Ph. D.:**

- **Date of Award:** 2016
- **Ph.D. Topic:** Photoperiodic modulation of melatonin and melatonin receptor (MT1R) expression in regulation of testicular steroidogenesis in golden hamster, *Mesocricetus auratus*.

### » **Professional Qualifications:**

- **NET:** CSIR-UGC, 2010

### » **Publications in Journals:**

1. Mukherjee, A. 2019. Regulation of Melatonin Biosynthesis: A review. Journal of emerging technologies and innovative research. 6 (2), 741-744. (I.F: N/A)
2. Mukherjee, A. 2019. Neuroendocrine Regulation of Seasonal Reproduction: A short review. International Journal of Research and Analytical Reviews. 6(2), 828-831. (I.F:

N/A)

3. Mukherjee, A., Haldar, C., 2016. Effect of Naltrexone on photoperiodic regulation of testicular steroidogenesis in adult golden hamster, *Mesocricetus auratus*. *General and Comparative Endocrinology*. 239, 89-96. (I.F: 3.255).
4. Rao, G., Verma, R., Mukherjee, A., Haldar, C., Agrawal, NK., 2016. Melatonin alleviates hyperthyroidism induced oxidative stress and neuronal cell death in hippocampus of aged female golden hamster, *Mesocricetus auratus*. *Experimental Gerontology*. 82, 125-130. (I.F: 4.253).
5. Mukherjee, A., Haldar, C., 2015. Effect of 2-deoxy-D-glucose induced metabolic stress on testicular steroidogenesis and antioxidant status in golden hamster, *Mesocricetus auratus*: Role of photoperiod. *Journal of Photochemistry Photobiology B: Biology*. 290, 83-96. (I.F: 6.814).
6. Mukherjee, A., Haldar, C., Vishwas, DK., 2015. Melatonin prevents dexamethasone-induced testicular oxidative stress and germ cell apoptosis in golden hamster, *Mesocricetus auratus*. *Andrologia*. 47(8), 920-931. (I.F: 2.532).
7. Mukherjee, A., Haldar, C., 2015. Melatonin membrane receptor (MT1R) expression and nitro-oxidative stress in testis of golden hamster, *Mesocricetus auratus*: An age-dependent study. *Experimental Gerontology*. 69, 211-220. (I.F: 4.253).
8. Mukherjee, A., Haldar, C., 2014. Photoperiodic regulation of melatonin membrane receptor (MT1R) expression and steroidogenesis in testis of adult golden hamster, *Mesocricetus auratus*. *Journal of Photochemistry Photobiology B: Biology*. 140, 374-380. (I.F: 6.814).
9. Vishwas, DK., Mukherjee, A., Haldar, C. Melatonin improves humoral and cell-mediated immune responses of male golden hamster following stress induced by dexamethasone. *Journal of Neuroimmunology*. 259(1-2), 17-25. (I.F: 3.221).
10. Vishwas, DK., Mukherjee, A., Haldar, C., Dash, D., Nayak, MK. 2013. Improvement of oxidative stress and immunity by melatonin: an age dependent study in golden hamster. *Experimental Gerontology*. 48 (2), 168-182-130. (I.F: 4.253).

» **Books and Chapters:**

• **Books:**

N. A.

• **Book Chapters:**

N. A.

» **Seminars, Conferences, Webinars and workshops attended:**

- Seminars/ Conferences / Workshops: 03

» **Life Membership:**

N. A.

» **Awards/ Academic Achievements:**

N. A.

» **Professional Courses:**

- Orientation Programme – 01
- Refresher Course – 01

- Short Term Course – 01

» **Others/ Miscellaneous:**

N. A.