

Dr. ARUN MUKHERJEE

Assistant Professor

Department of Zoology

M.Sc., Ph.D.

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:

03rd January, 2017

Other Academic/ Administrative post:

Co-ordinator of P.G. in Zoology (01/03/2020 – 28/02/2022)

Information about M. Phil. /Ph. D. etc.:

- ❑ **PhD Topic:** Photoperiodic modulation of melatonin and melatonin receptor (MT1R) expression in regulation of testicular steroidogenesis in golden hamster, *Mesocricetus auratus*.

Publications:

1. **Mukherjee A**, Haldar C, Vishwas DK (2014) Melatonin prevents dexamethasone-induced testicular oxidative stress and germ cell apoptosis in golden hamster, *Mesocricetus auratus*. *Andrologia*. doi: 10.1111/and.12357.
2. **Mukherjee A**, Haldar C. (2014) Photoperiodic regulation of melatonin membrane receptor (MT1R) expression and steroidogenesis in testis of adult golden hamster, *Mesocricetus auratus*. *J Photochem Photobiol B*. 140C:374-380. doi: 10.1016/j.jphotobiol.2014.08.022.
3. **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. *Exp Gerontol*, 69, 211-220.
4. **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. *J Photochem Photobiol B*, 153, 40-50.
5. **Mukherjee A**, Haldar C (2015) Effect of Naltrexone on photoperiodic regulation of testicular steroidogenesis in adult golden hamster, *Mesocricetus auratus*. *Gen Comp Endocrinol*. doi: 10.1016/j.ygcen.2015.10.001.
6. **Mukherjee A** (2019) Neuroendocrine regulation of seasonal reproduction: a short review. *IJRAR*, Volume 6, Issue 2, 828-831.

Seminars, Webinars and Conferences attended:

1. Presented a paper in the International Science Seminar on “Science: Past, Present & Future” organized by Syamsunadr College & Indian Chemical Society, held on 12th December, 2017.
 2. Presented a paper in the W.B. Biodiversity Board Sponsored National seminar on “Local Biodiversity” Organized by Department of Botany, Raja Rammohun Roy Mahavidyalaya, Radhanagar, Nangulpara, Hooghly, W. B, held on 30th January, 2018.
 3. Delivered speech on the topic “Physiology of seasonal reproduction in the light of molecular biology” as resource person in the A day-long seminar organized by Department of Zoology, Michael Madhusudan Memorial College, Durgapur, W.B. held on 25th June, 2019.
-