



ENLIGHTENMENT TO PERFECTION

UNIVERSITY OF NORTH BENGAL

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Raja Rammohunpur, Dist- Darjeeling, West Bengal, Pin-734013, India.

Department of Zoology

Print

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Subject specialization: Fish Biology, Fisheries and Aquaculture, Chronobiology and Physiology, Endocrinology, Reproductive Biology

Areas of Research Interest: Fish Endocrinology, Chronobiology, Reproductive Biology, Environmental Endocrinology, Genetics and Molecular Endocrinology, Stress and General Physiology, Neuroendocrinology

No. of Ph.D. students: (a) Supervised: Nil (b) Ongoing: Nil

No. of M.Phil. students: (a) Supervised: Nil (b) Ongoing: Nil.

No. of Publications: (a) Journal(s) : 08 (b) Book(s) : 00 (c) Book chapter(s): 01

Achievement & Awards:

- Dr. D.S. Kothari Post-Doctoral Fellowship (August, 2017) (71st list of selected candidate, Sr. No. 2126), UGC, Govt. of India (Selected, but not availed).
- S. P. Raychaudhuri Memorial Medal Award for 2015-16 from the Zoological Society, Kolkata-700 019.
- DBT-Research Associateship (2015-2016); *Selected by IISc, Bangalore Funded by DBT, Govt. of India*
- DST-SERB International Travel Award (2014) by DST SERB, Govt. of India
- UGC BSR (RFSMS) Fellowship (2013) UGC, Govt. of India.
- Life Member (No. LM329-2011) In Society for Reproductive Biology and Comparative Endocrinology (SRBCE) (Since 2011), University of Madras, Taramani Campus, Chennai □ 600113, India.
- Life Member (No. L/M-146) in The Zoological Society (Since 2018), Kolkata-700 019, India.
- 3rd position in M.Sc. Examination (2008) at Visva-Bharati University, Santiniketan.

Professional/Administrative Experiences: Nil

Selective List of Publications:**Book Chapter:**

1. Maitra SK, Mukherjee S and Hasan KN. (2015) Melatonin: Endogenous sources and role in the regulation of fish reproduction. In: Indoleamines: Sources, role in biological processes and health effects, Chapter 2 (ed) Catalá A. (USA: Nova Science Publishers, Inc. New York, ISBN: 978-1-63482-097-4) pp 43-77.

Selected Articles:

2. Mukherjee S and Maitra SK. (2018) Daily profiles of serum and gastrointestinal melatonin in response to daytime or night-time supply of tryptophan-rich diet in carp (*Catla catla*), *Biological Rhythm Research*, Vol: 49, Page No. 315-327. (Taylor & Francis, UK). DOI:10.1080/09291016.2017.1361157. (Impact factor: 0.624 in 2017).
3. Mukherjee S, Guha M, Adhikary B, Bankura B, Mitra P, Chowdhury S, Das M (2017) Genetic Alterations in Pendrin (*SLC26A4*) Gene in Adult Hypothyroid Patients, *Hormone and Metabolic Research*, Vol: 49, Page No: 680-686 (Thieme Publishers New York). DOI: 10.1055/s-0043-110769. (Impact factor: 2.560).
4. Mitra P, Guha M, Ghosh S, Mukherjee S, Bankura B, Pal DK, Maity B, Das M. (2017) Association of calcitonin receptor gene (CALCR) polymorphism with kidney stone disease in the population of West Bengal, India. *Gene*, Vol:622, Page No: 23-28. (Elsevier, New York, USA). DOI: 10.1016/j.gene.2017.04.033. (Impact factor: 2.498).
5. Mukherjee S and Maitra SK. (2015) Effects of starvation, re-feeding and timing of food supply on daily rhythm features of gut melatonin in carp (*Catla catla*). *Chronobiology International*, Vol: 32, Page No: 1264-1277 (Taylor & Francis, UK). DOI:10.3109/07420528.2015.1087020. (Impact factor: 3.343).
6. Mukherjee S and Maitra SK. (2015) Gut Melatonin in Vertebrates: Chronobiology and Physiology. *Frontiers in Endocrinology*, Vol: 6, Article: 112 (Lausanne, Switzerland). DOI:10.3389/fendo.2015.00112. (Impact factor: 3.675).

7. Mukherjee S, Moniruzzaman M, Maitra SK. (2014) Impact of artificial lighting conditions on the diurnal profiles of gut melatonin in a surface dwelling carp (*Catla catla*). *Biological Rhythm Research*, Vol: 45, Page No. 831-848 (Taylor & Francis, UK). DOI:10.1080/09291016.2014.923618. (Impact factor: 1.2 in 2013).
8. Mukherjee S, Moniruzzaman M, Maitra SK. (2014) Daily and seasonal profiles of gut melatonin and their temporal relationship with pineal and serum melatonin in carp *Catla catla* under natural photo-thermal conditions. *Biological Rhythm Research*, Vol: 45, Page No. 301-315 (Taylor & Francis, UK). DOI:10.1080/09291016.2013.817139. (Impact factor: 1.2 in 2013).
9. Maitra SK, Chattoraj A, Mukherjee S, Moniruzzaman M. (2013). Melatonin: A potent candidate in the regulation of fish oocyte growth and maturation. *General and Comparative Endocrinology*, Vol: 181, Page No. 215-222 (Elsevier, New York, USA). DOI:10.1016/j.ygcen.2012.09.015. (Impact factor: 2.564).

Abstracts Published in National/International Symposiums:

1. Mukherjee S, Chowdhury S and Das M: Genetic alterations in pendrin (*SLC26A4*) gene in adult hypothyroid patients. In *SRBCE-2017, Hyderabad* (9-11 Feb, 2017).
2. Mukherjee S and Maitra SK: Synchronizer of gut melatonin rhythms in carp. In *S. P. Raychaudhuri Memorial Award for 2015-16 by The Zoological Society, Kolkata* (March 28, 2016).
3. Mukherjee S, Moniruzzaman M and Maitra SK: Food, in contrast to environmental light-dark cycle, is the synchronizer of gut melatonergic system in carp *Catla catla*. In *CECE-2014, Rennes (France)* (August 25-29, 2014).
4. Mukherjee S, Moniruzzaman M and Maitra SK: Does light dark condition play the role of a synchroniser of the daily rhythms of gastrointestinal melatonin- a study in carp *Catla catla*. In *SRBCE-2012, Udaipur*.
5. Mukherjee S, Moniruzzaman M and Maitra SK: Gastrointestinal melatonin in carp: Localization and diurnal rhythmicity. In *SRBCE-2011, Mysore*.
6. Mukherjee S, Pal PK and Maitra SK; Impact of Environmental Light-Dark Conditions on Gut Melatonin in a Surface-dwelling Carp *Catla catla*. In *ICEBEM-2014, Santiniketan*. Page no. 138.
7. Moniruzzaman M, Mukherjee S and Maitra SK: Influence of melatonin on ovaprim induced oocyte maturation and ovulation in Indian major carp *Catla catla*. In, *CECE-2014, Rennes (France)* (during August 25-29, 2014).
8. Hasan NK, Moniruzzaman M, Mukherjee S and Maitra SK: Oocyte development and endogenous melatonin in carp *Catla catla*: A correlative study under natural and altered photoperiods. In *SRBCE-2011, Mysore*.