



UNIVERSITY OF NORTH BENGAL

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Raja Rammohunpur, Dist.: Darjeeling, West Bengal, India, PIN: 734 013

সমানো মন্ত্র: সমিতি: সমানী

Department of Zoology

Dr. Sourav Mukherjee

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- ❖ Father's Name: **Sri Buddhadeb Mukherjee**
- ❖ Date of Birth: 16/07/1984
- ❖ Gender: Male
- ❖ Category: General
- ❖ Home Town: Chandannagar, Hooghly-712136
- ❖ Present Location: Siliguri, Darjeeling-734013

- ❖ Ph.D. thesis title: Gut Melatonin in Carp *Catla catla*: Distribution, Daily Profiles in Relation to Photoperiods, Food and Feeding Schedule.
- ❖ Supervisors 's Name: **Prof. Saumen Kumar Maitra**
- ❖ University: Department of Zoology, Visva-Bharat University, Santiniketan-731235, India

- ❖ Date of Joining at NBU: 28.07.2017
- ❖ Teaching Experience: >5 Years,
- ❖ Research Experience: >12 years

- ❖ Subject specialization: Fish Biology, Fisheries and Aquaculture, Endocrinology, Physiology, Reproductive Biology, Functional Biology of chordates.

- ❖ Research Interest: Fish Nutrition and Endocrinology, Chronobiology, Reproductive Biology, Environmental Endocrinology, Stress and General Physiology

- ❖ Currently working on: Presently, we are trying to understand the functions of gut or gastrointestinal melatonin in coordinating the endocrine system related to general physiology and reproduction using the fish model for the betterment of aquaculture.

- ❖ No. of Research Scholars: Ongoing: **03**
- ❖ No. of Publications: (a) **SCI Journals (International): 09**
Avg. Impact Factor of Published Journals (as on Dec, 2021): ~2.7
(b) **Book Chapter: 01**

❖ Research Projects (Completed/Ongoing):

Sl. No.	Project/ Scheme Title	Major/ Minor	PI/ Co-PI	Funding Authority	Amount	Year of Sanction	Duration	Status
1.	Functional implications of endogenous gut melatonin on the rate of ovarian growth and development in carp <i>Catla catla</i>	Major	Sole PI	CSIR, Govt. of India, New Delhi.	34 Lakhs (Approx.)	2019	3 Years	Ongoing
2.	Efficacy of experimental diets on the rate of somatic and gonadal growth in carp <i>Catla catla</i> .	Minor	Sole PI	University of North Bengal, Dist. Darjeeling	1.5 Lakh	2019	1 Year	Completed

❖ Professional Recognition/ Award/ Prize/ Certificate, Fellowship received:

Sl. No.	Name of Award	Awarding Agency	Year
1.	Dr. D.S. Kothari Post-Doctoral Fellowship (71 st list of selected candidate, Sr. No. 2126) (Selected, but not availed)	UGC, Govt. of India	2017
2.	S. P. Raychaudhuri Memorial Medal Award for 2015-16	The Zoological Society, Kolkata-700019	2015
3.	DBT-Research Associateship; Selected by IISc, Bangalore Funded by DBT, Govt. of India	DBT, Govt. of India	2015
4.	DST-SERB International Travel Award	DST SERB, Govt. of India	2014
5.	UGC BSR (RFSMS) Fellowship	UGC, Govt. of India	2013
6.	Life Member (No. LM329-2011) In Society for Reproductive Biology and Comparative Endocrinology (SRBCE)	SRBCE, University of Madras, Taramani Campus, Chennai - 600113	Since 2011
7.	Life Member (No. L/M-146) in The Zoological Society, Kolkata, India	Department of Zoology, University of Calcutta, 35 Ballygunge Circular Road, Kolkata – 700 019 Website: www.zskol.org	Since 2018

❖ Book Chapter:

Sl. No.	Title	Author's Name	Publisher	Year
1.	Melatonin: Endogenous sources and role in the regulation of fish reproduction. In: Indoleamines: Sources, role in biological processes and health effects, (Chapter 2) pp 43-77, (ed) Catalá A.	Saumen Kumar Maitra*, Sourav Mukherjee, Kazi Nurul Hasan	USA: Nova Science Publishers, Inc. New York ISBN: 978-1-63482-097-4	2015

*Corresponding Author

❖ Publications (List of papers published in SCI Journals, in year wise descending order).

Sl. No.	Author(s)	Title	Journal	Impact factor	Vol.	Page/ Article	Year and DOI No.
9.	Farha Yasmin, Sona Sutradhar, Poulami Das, Sourav Mukherjee*	<i>Gut melatonin: A potent candidate in the diversified journey of melatonin research.</i>	General and Comparative Endocrinology	2.822	303	113693	2021 DOI: 10.1016/j.ygcn.2020.113693
8.	Sourav Mukherjee and Saumen Kumar Maitra*.	<i>Daily profiles of serum and gastrointestinal melatonin in response to daytime or night-time supply of tryptophan-rich diet in carp (Catla catla).</i>	Biological Rhythm Research	1.219	49	315-27	2018 DOI: 10.1080/09291016.2017.1361157
7.	Sourav Mukherjee, Manalee Guha, Bidisha Adhikary, Biswabandhu Bankura, Pubali Mitra, Subhankar Chowdhury and Madhusudan Das*	<i>Genetic alterations in pendrin (SLC26A4) gene in adult hypothyroid patients in eastern part of India.</i>	Hormone and Metabolic Research	2.936	49	680-86	2017 DOI: 10.1055/s-0043-110769.
6.	Pubali Mitra, Manalee Guha, Sudakshina Ghosh, Sourav Mukherjee, Biswabandhu Bankura, Dilip Kumar Pal, Biswanath Maity, Madhusudan Das*	<i>Association of calcitonin receptor gene (CALCR) polymorphism with kidney stone disease in the population of West Bengal, India.</i>	Gene	3.688	62	23-28	2017 DOI: 10.1016/j.gene.2017.04.033.
5.	Sourav Mukherjee and Saumen Kumar Maitra*	<i>Effects of starvation, re-feeding and timing of food supply on daily rhythm features of gut melatonin in carp (Catla catla)</i>	Chronobiology International	2.877	32	1264-77	2015 DOI: 10.3109/07420528.2015.1087020.
4.	Sourav Mukherjee and Saumen Kumar Maitra*	<i>Gut Melatonin in Vertebrates: Chronobiology and Physiology.</i>	Frontiers in Endocrinology	5.555	6	112	2015 DOI: 10.3389/fendo.2015.00112
3.	Sourav Mukherjee, Md. Moniruzzaman and Saumen Kumar Maitra*	<i>Impact of artificial lighting conditions on the diurnal profiles of gut melatonin in a surface dwelling carp (Catla catla)</i>	Biological Rhythm Research	1.219	45	831-48	2014 DOI: 10.1080/09291016.2013.817139
2.	Sourav Mukherjee, Md. Moniruzzaman and Saumen Kumar Maitra*	<i>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</i>	Biological Rhythm Research	1.219	45	301-15	2014 DOI: 10.1080/09291016.2014.923618
1.	Saumen Kumar Maitra*, Asamanja Chattoraj, Sourav Mukherjee and Md. Monieruzzaman	<i>Melatonin: A potent candidate in the regulation of fish oocyte growth and maturation.</i>	General and Comparative Endocrinology	2.822	181	215-22	2013 DOI: 10.1016/j.ygcn.2012.09.015.

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❖ Details of Fellows Working under the Supervision in the Laboratory:

Sl. No.	Name and Contact Details	Designation	Funding Authority	Name of Guide(s)	Date of Joining	Course Work Completed on	Registration date for Ph.D.
1.	Ms. Farha Yasmin, Email IDs: farhayasmin451@nbu.ac.in, farhayasmin451@gmail.com Phone: 7076762951	UGC-JRF [Ref. No. 743/ (CSIR-UGC NET DEC. 2018)]	UGC, Govt. of India	Dr. Sourav Mukherjee	01.08.2019	11.09.2019	Applied
2.	Mr. Sona Sutradhar Email IDs: rs_sutradhar@nbu.ac.in, sonasutradhar24@gmail.com Phone: +91-7477587995	UGC-JRF [Ref. No. 660/ (CSIR-UGC NET JUNE 2019)]	UGC, Govt. of India	Dr. Sourav Mukherjee	24.12.2019	09.02.2021	Not Yet
3.	Mr. Aurn Roy Email IDs: arun.nbu2020@gmail.com Phone: +91-8172071699	JRF-In CSIR Sponsored Project [Ref. No. 37(1737)/19/ EMR-II]	CSIR, Govt. of India.	Dr. Sourav Mukherjee	09.08.2021	Not Yet	Not Yet

❖ Workshop organized:

Organized two-day workshops especially for the Fish Farmers from different districts of North Bengal region as an "Organizing Secretary" under the authority of Fisheries Research and Training Centre, Department of Zoology, University of North Bengal, Raja Rammohunpur, P.O. NBU, Dist. Darjeeling, West Bengal, PIN: 734013:

- ✚ On 22nd & 23rd Feb, 2020 with 25 number of actual Fish Farmers, workshop entitled "Hands-on Training on Fish Disease Management in Aquaculture".
- ✚ On 2nd & 3rd Feb, 2019 with 26 numbers of actual Fish Farmers, the hands-on workshop entitled "Training on Fish Nutrition and Feeding Management in Aquaculture for Sustainable Development".

❖ Important Conference/Workshop Participated:

1. Int. conference on Reproductive Biology and Comparative Endocrinology and 35th SRBCE meeting at **University of Hyderabad** (Feb 9 - 11, 2017).
2. Hands-on training on cell culture, Cell proliferation and gene expression analysis by RT-PCR at **JSS College of Pharmacy, Ooty**, Tamilnadu (July 14-16, 2016).
3. **27th Conference of European Comparative Endocrinologists**, on the Campus de Beaulieu of the **University of Rennes 1, France** (August 25-29, 2014).
4. Int. Conference on Environmental Biology and Ecological Modelling (ICEBEM-2014) at **Visva-Bharati** (Feb 24 - 26, 2014).
5. Nat. Symposium on Reproductive Biology and Comparative Endocrinology at **University of Udaipur** (Jan 30 - Feb 1, 2012).
6. Int. Symposium on Reproductive Biology and Comparative Endocrinology at **University of Mysore** (Feb 10 - 12, 2011).

❖ 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** (09-11 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). Page no. PO 08.
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**. Page no. 73.
5. **Mukherjee S**, Moniruzzaman M and Maitra SK: Gastrointestinal melatonin in carp: Localization and diurnal rhythmicity. In **SRBCE-2011, Mysore**. Page no. 124.
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). Page no. PO 09.
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**. Page no.162.