

## Dr. Soumen Roy, M.Sc., Ph.D.



### ❖ Personal Details

Sex- Male

Date of Birth: 05-07-1986

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❖ Current Position: State Aided College Teacher (SACT-1), Department of Zoology, City College, 102/1 Raja Rammohan Sarani, Kolkata-700009. (Under Calcutta University).

### ❖ Membership details:

**Life Member: Zoological Society, Kolkata (ZSK)**, 35, Ballygunge Circular Rd, Ballygunge, Kolkata, West Bengal 700019

### ❖ Educational qualifications:

Course	University
B.Sc. (Subject, Hons.), 2006	Zoology (Hons.)
M.Sc. in Subject with (special paper: ). 2009	Zoology (Comparative anatomy)
Ph.D., Subject, Thesis topic 2020	Zoology (Comparative microanatomy of ovotestes of some hermaphrodite, pulmonate molluscs with respect to sex differentiation)

### ❖ Technical, Workshop, & Academic Training :

1. Information Technology Application (2015), Youth Computer Training Centre, Kolkata.
2. XXXVIII National Training Program in Electron Microscopy for scientific investigators (2022), AIIMS, New Delhi.

#### **Workshop:**

Workshop on Zoology CBCS Syllabus, 2018, University of Calcutta, Performed as a resource person of the practical syllabus.

### ❖ Previous working experience:

Sl. No.	Post	College, University and Organisation	Department	Duration
1	Guest lecturer	Sripat Singh College (Under Kalyani University)	Zoology (UG, Dept.)	2011-2012
2	Guest lecturer	Women's College Calcutta (A Post Graduate Study Center; Director of Distance Education, Vidyasagar University)	Zoology (PG, Dept.)	2015-2019

3.	Guest lecturer	Serampore college	Zoology (PG, Dept.)	2013-2015
4.	Guest lecturer	West Bengal State University	Zoology (PG, Dept.)	2017-Present

❖ **Area of expertise and Research Interest:**

**Morphology, Anatomy, Developmental biology, Ultrastructural studies (SEM and TEM), Histomorphology, Histopathology, Hermaphroditism, Taxonomy of Malacofauna and Fishes.**

❖ **Research Guided (dissertation/Review):**

**a) Completed:**

**M.Sc. Dissertation:**

**Title:** Ultrastructure of the otolith in different body size groups of the perciformes fishes (2019).

**Research Scholar: Itika Bardhan,** (2<sup>nd</sup> year) Dept. of Zoology, Women's College Calcutta (PG-Study Centre, Vidyasagar University, Midnapore), Kolkata 700003, West Bengal, India).

**Publication:** Bardhan, I.; **Roy, S.;** Mukhopadhyay, A.; Tripathy, B (2021) Ultrastructure of the Sagitta Otolith in Different Body Size Groups of Climbing Perch *Anabas testudineus* (Anabantidae). Journal of Ichthyology, 61 (1), 166–174.

**b) Ongoing:**

**Title:** Macro- and micro-morphology of the pharyngeal teeth of two snake-headed fishes in fresh water of the Nilganj, Kolkata, West Bengal (2023).

**Research Scholar: Sumedha Biswas,** (SEM 4), Dept. of Zoology, West Bengal State University, Kolkata, West Bengal.

❖ **Publication:**

**Papers:**

Sl.	Journal name	Title	ISBN/ISSN	Vol. (No.)	Pg. no.	Year	Impact Factor	Authorship (first/Corresponding/Contributing) Name of author	DOI of Article	Whether enlisted in UGC-CARE, Web of science etc.	Publisher Name
1.	Journal of Parasitic Diseases	Biology of Trypanosoma (Trypanozoon) evansi in experimental heterologous mammalian hosts	0971-7196	40 (3)	1047-1061	2016	1.21 (2020)	Contributing author	DOI of Article	no	Springer
2.	Journal of Microscopy and Ultrastructure	Ultrastructure of ovotestis of young and adult pulmonate mollusk, <i>Macrochlamys indica</i> Benson, 1832	2213-879X	4 (4)	184-194	2016	5.154 (5 year)	First author	doi: 10.1007/s12639-014-0633-1. Epub 2015 Jan 20.	yes	Elsevier
3.	Journal of Entomology and Zoology Studies	Species-abundance distribution (SAD) of sarcosaprophagous fly population guild	2320-7078	4 (2)	347-360	2016	RJIF 5.48	Contributing author	doi.org/10.1016/j.jimau.2016.03.001	no	The Society of Agricultural Research and Social Development
4.	International Journal of Acarology	Microscopic anatomy of the Haller's organ of snake ticks	0164-7954	43 (1)	1-9	2017	1.236 (2018)	Contributing author	https://www.entomoljournal.com/archives/2016/vol4issue2/PartE4-	no	Taylor & Francis

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5.	Journal of Entomology and Zoology Studies	Studies on the association between five insect orders, Araneae and plants in and around Falta industrial zone, West Bengal, India	2320-7078	5 (1)	549-561	2017	RJIF 5.48	Contributing author	doi.org/10.1080/01647954.2016.1229813	no	The Society of Agricultural Research and Social Development
6.	Molluscan Research	Ultrastructure of gametogenesis in the ovotestis of an estuarine pulmonate slug, <i>Onchidium tigrinum</i> (Stoliczka, 1869)	1323-5818	38 (4)	1448-6067	2018	1.461 (2019)	First author	https://www.entomoljournal.com/archives/2017/vol5issue1/PartH/4-6-104-241.pdf	no	Taylor & Francis
7.	Molluscan Research	The fine structure of gametogenesis and somatic cells in the ovotestis of the terrestrial pulmonate slug, <i>Laevicaulis alte</i> (Férussac, 1822)	1323-5818	39(4)	1448-6067	2019	1.461 (2019)	First & corresponding author	doi.org/10.1080/13235818.2018.1434605	no	Taylor & Francis
8.	Zoomorphology	Note on the vitellogenesis and the yolk granules in a <i>Veronicellidae</i> slug, <i>Laevicaulis alte</i> (Férussac, 1822)	0720-213X	139 (2)	141-149	2020	1.2 (2020)	First- & corresponding author	doi.org/10.1080/13235818.2019.1634307	no	Springer
9.	Molluscan Research	Macro- and microscopic morphology of the reproductive system of the terrestrial snail <i>Macrochlamys indica</i> (Godwin-Austen, 1883) (Eupulmonata, Stylommatophora, Ariophantidae)	1323-5818	40(4)	379-396	2020	1.461 (2019)	Single author	doi.org/10.1007/s00435-020-00486-1	no	Taylor & Francis
10.	Journal of Ichthyology	Ultrastructure of the Sagitta Otolith in Different Body Size Groups of Climbing Perch <i>Anabas testudineus</i> (Anabantidae)	0032-9452	61(1)	166-174	2021	0.603	Contributing & corresponding author	doi.org/10.1080/13235818.2020.1823099	no	Springer
11.	Papéis Avulsos de Zoologia	The developmental variations of the sagitta otolith in the young and mature male of a hermaphrodite polynemidae fish, <i>Eleutheronema tetradactylum</i> (Shaw, 1804)	1807-0205	61	e2021 6178	2021	0.778	First author & contributing author	DOI: 10.1134/S0032945221010033	no	Museu de Zoologia da Universidade de São Paulo
12.	International Journal of Zoology And Animal Biology	Effects of the shed skin aqueous extract of the non-poisonous snake, <i>Ptyas mucosus</i> (Linnaeus, 1758) on the development of the ovotestis of <i>Onchidium tigrinum</i> (Stoliczka 1869) (Stylommatophora: Eupulmonata: Gastropoda)	2639-216X	4 (5)	Jan-16	2021	1.759	First & contributing author	DOI: https://doi.org/10.11606/1807-0205/2021.61.78	no	Medwin Publishers

13	International Research Journal of Basic and Applied Sciences (IRJBAS)	Immune responses of the circulating haemocytes of <i>Achatina (Lissachatina) fulica</i> (Bowdich, 1822) challenged with the spores of <i>Rhizopus</i> sp and <i>Aspergillus</i> sp.	ISSN 2455-6718	6	68-94		0.765 (2015)	First & contributing author	DOI: 10.23880/izab-16000322	no	Raja N. L. Khan Womens College, Midnapur, West Bengal, India
14	Molluscan Research	A new species of Cephalaspidean sea slug of the genus <i>Melanochlamys</i> Cheeseman, 1881 (Heterobranchia: Aglajidae) from the Bay of Bengal, India	1323-5818	NA	Accepted	2022	0.803 (2021)	Contributing author	Doi: 10.1080/13235818.2021.22139583	no	Taylor and Francis

### **Book chapter:**

Hazra, RR.; **Roy, S.**; Sarkar, S (2022) Effects of lockdown-consequence of Covid-19 pandemic on migratory birds in a stretch of Damodar River valley, Paschim Bardhaman district. In. COVID-19 Pandemic and its Impact on Biodiversity, Vidyannagar College, Kolkata, West Bengal, India. Chapter 12. 123-141.

### **❖ Patent:**

Innovation Patent Australia (Australia Govt.); Patent NO. 2021102338 (filing date: 2021-05-03): Roy, Soumen; Saha, Samir Kumar and Ghorai, Narayan. Title: A system of yolk formation in Veronicellidae slug.

### **❖ Reviewer (Name of the review article, Year, and Journal)**

1. Pavlov, DA.; Kasumyan, AO (2023), Inner Ear and Otolith Morphology of Climbing Perch *Anabas testudineus* (Anabantidae). Journal of Ichthyology
1. Shukla, M.; Karmore, SK (2023), Age Related Electron Microscopic Observations on Bursa of Fabricius of Kadaknath and Narmada Nidhi Birds. Indian Journal of Biochemistry and Biophysics.

### **❖ Awards:**

**Name of the Award:** 2<sup>nd</sup> Prize for best oral presentation

**Seminar:** Modern Trends in life sciences, 2012

**Organizer:** Raja N. L. Khan Womens College (Autonomous), Midnapur, West Bengal, India

**Title of paper:** Ultrastructure of ovotestis of two pulmonate mollusks, *Laevicaulis alte* and *Macrochlamys indica*.

❖ List of Participation in Seminar, Conference and Workshop

Sl.No.	Name of the Conference		Title
	a) International	Organized By	
1	UGC-CPE Sponsored International Conference on Facets of Basic Sciences & Applications (2018)	Bijoy Krishna Girl's College, Howrah	<b>Oral:</b> Reproductive strategy of hermaphrodite pulmonate molluscs
2	Two-Day International Seminar on “Innovation, Expansion, Impacts and Challenges in Chemical and Biological Sciences (2020)	Surendranath College, Kolkata	<b>Poster:</b> The light and electron microscope study of dart apparatus in the terrestrial snail <i>Macrochlamys indica</i> (Stylommatophora: Ariophantidae).
3.	International Conference on Multidisciplinary Studies (2022)	Ankara, Turkey	<b>Oral:</b> Microstructures of the otolith in different body size groups of Banded Gourami, <i>Trichogaster fasciata</i> (Osphronemidae, Anabantiformes)
	b) National		
3	Two- Day National Seminar on “Future India: Science and Technology (2019)	City College, Kolkata	<b>Poster:</b> Micro-morphology of circulating immunocytes of <i>Achatina (Lissachatina) fulica</i> (Férussac, 1821), against yeast
	Regional/State Level		
5	2nd Regional Science & Technology Congress (2017)	University of Kalyani, Kalyani	<b>Oral:</b> Effects of snake ( <i>Ptyas mucusus</i> ) shed skin extract (SSE) on the development of ovotestis of hermaphrodite pulmonate <i>Onchidium tigrinum</i> .
6.	5 <sup>th</sup> Regional Science & Technology Congress (2022-23)	Raja Narendralal Khan Women’s College (Autonomous)	<b>Oral:</b> Micro-morphology of circulating immunocytes of African Giant land snail <i>Lissachatina fulica</i> , against yeast

❖ Workshops/Events organized.

❖ **Name of the event:** Future India- Science and Technology, 2019

❖ **Organizers:** City College, Kolkata 700009, and Indian Science Congress Association, Kolkata Chapter

❖ **Performance:** Performed as a member of technical committee

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