

Dr SUPRITI SARKAR



Sex- Female

Date of Birth: 05/03/1962

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❖ **Current Position:** Associate Professor, Department of Zoology, City College, 102/1 Raja Rammohan Sarani, Kolkata-700009. (Under Calcutta University).

❖ **Membership details:**

1. Life member of Indian Science Congress
2. Life member of Zoological Society, Kolkata
3. Life member of Indian Science News Association
4. Life member of Bangiya Bigyan Parisad

❖ **Member of Editorial Board:**

❖ **Educational qualifications:**

Course	University
B.Sc. (Subject, Hons.)	UNIVERSITY OF CALCUTTA (1984)
M.Sc. in ZOOLOGY with ENDOCRINOLOGY as Special Paper	UNIVERSITY OF CALCUTTA (1987)
Ph.D., Subject, Thesis Topic : "Some Aspects of Biology Of Female Reproduction In Soft-Shelled Turtle <i>Lissemys Punctata Punctata</i> "	UNIVERSITY OF CALCUTTA (1995)
Post Doct.	NICED, INDIA (1995-1997)

❖ **Area of expertise and Research Interest:** Animal Endocrinology , Birds Nesting

❖ **Research Projects: completed**

SL. No.	Name of Project	Project type (Major/Minor/ Funding Agents etc.)	Duration	Remarks/Place of work
1.	"Effects of urbanization and anthropogenic disturbances on nesting biology and population of neighbouring fauna'.	WEST BENGALBIODIVERSITY BOARD PROJECT (File No.508/3K(BIO)-4/2018 SANCTIONED AMOUNT: 3,60,000/-	2018-	PI:DR. SUPRITI SARKAR City College, Kolkata-9
2	'An Elaborate study of pancreatic and extrapancreatic influences on fenugreek induced hypoglycemia in diabetes with special reference to gestational diabetes'.	UGC-MAJOR PROJECT File No.42-526/2013(SR) Amount sanctioned: Rs.11,27,219/-	2013-2017	PI:DR. SUPRITI SARKAR City College, Kolkata-9
3	'Exploration of molecular cross-talk involved in the roadmap to hyperhomocysteinemia-induced pregnancy loss'	SERB-DST (MAJOR PROJECT) File No. SB/YS/LS-132/2014 Amount sanctioned: Rs 32,50,000/-	2015-2018	PI: DR PRATIP CHAKRABORTY Co-PI: DR. SUPRITI SARKAR City College, Kolkata-9
4	Establishment of a protocol for induced breeding in soft-shelled turtle by hormonal manipulation.	UGC(MINOR PROJECT), Govt of India F.PSW-28/98-99 ERO, dt 25/2/1999	1999-2001	PI:DR. SUPRITI SARKAR City College, Kolkata-9
5	Effects of Lithium on pancreatic function in rats.	UGC(MINOR PROJECT), Govt of India F.PSW-020/07-08 ERO,dt21/2/2008	2008-2010	PI:DR. SUPRITI SARKAR City College, Kolkata-9
6.	An elaborate study of hormonal regulation of vitellogenesis and ovulation in an Indian soft-shelled turtle and establishment of a protocol for induced breeding in turtles.	CSIR, Govt of India. 9/482(18)/95-EMR- ldt. 25/9/1995	2 years	RESEARCH ASSOCIATE: NICED
7.	.Induction of vitellogenesis and ovarian follicular maturation in soft-shelled turtles	CSIR, Govt of India.9/28(394)/92-EMR-ldt 9/10/92	3 years	SRF:University of Calcutta
8.	. Seasonal and hormonal influence of reproduction in soft-shelled turtles	CSIR, Govt of India. 1899/76-CSIR, dt-12/2/88	3 years	JRF: University of Calcutta

b) Ongoing Project:

SL. No.	Name of Project	Project type (Major/Minor/ Funding Agents etc.)	Duration	Remarks/Place of work
1.	“Effects of urbanization and anthropogenic disturbances on nesting biology and population of neighbouring fauna’.	WEST BENGALBIODIVERSITY BOARD PROJECT (File No.508/3K(BIO)-4/2018 SANCTIONED AMOUNT: 3,60,000/-	2018-2023	CITY COLLEGE, KOLKATA-9

PUBLICATION

INTER NATIONAL PUBLICATION (FULL RESEARCH PAPERS)

1. Prajna Paramita Ray, Tania Chatterjee, Sraboni Roy, SuvojitRakshit, Madhumita Bhowmik, Jaysree Guha, Aniruddha Maity, IndraneelSaha, Ankur Bhowal, Aniruddha Chatterjee, **Supriti Sarkar**, Debabrata Nag & B. R. Maiti. Noise Induces Hypothyroidism and Gonadal Dysfunction Via Stimulation of Pineal–Adrenal Axis in Chicks. *Proc Zool Soc* **71**, 30–47 (2018). doi.org/10.1007/s12595-016-0180-0
2. Dasgupta R, Ray PP, Maity A, Pradhan D, **Sarkar S**, Maiti BR. DUAL ACTION OF ARECOLINE ON ADRENAL FUNCTION AND GLUCOSE-GLYCOGEN HOMEOSTASIS IN METABOLIC STRESS IN MICE. *Acta Endocrinol (Buchar)*. 2017 Oct-Dec;13(4):400-409. doi: 10.4183/aeb.2017.400. PMID: 31149208; PMCID: PMC6516543.
3. Majumdar J, Chakraborty P, Mitra A, Sarkar NK, **Sarkar S**. Fenugreek, A Potent Hypoglycaemic Herb Can Cause Central Hypothyroidism Via Leptin - A Threat To Diabetes Phytotherapy. *Exp Clin Endocrinol Diabetes*. 2017 Jul;125(7):441-448. doi: 10.1055/s-0043-103458. Epub 2017 Apr 13. PMID: 28407664.
4. Romi Dasgupta, Aniruddha Chatterjee, **Supriti Sarkar**& B. R. Maiti (2017) Arecoline aggravates hypothyroidism in metabolic stress in mice, *Archives of Physiology and Biochemistry*, 123:2, 105-111, DOI: [10.1080/13813455.2016.1267228](https://doi.org/10.1080/13813455.2016.1267228)
5. H. P. Sarkar, **Supriti Sarkar**& B. R. Maiti (2013) Diabetogenic effects of streptozotocin on endocrine pancreatic islets, adrenal and carbohydrate profiles in turtles, *Lissemys punctata punctata* (Bonnoterre) (Reptilia: Chelonia), *Italian Journal of Zoology*, 80:1, 12-34, DOI: [10.1080/11250003.2012.725429](https://doi.org/10.1080/11250003.2012.725429)
6. H. P. Sarkar, **S. Sarkar** & B. R. Maiti (2012) Effect of alloxan on ultrastructural and hormonal changes of the endocrine pancreas with hormonal profiles of adrenal gland and their influence on carbohydrate metabolism in soft-shelled turtles, *Lissemys punctata punctata* Bonnoterre, *Italian Journal of Zoology*, 79:3, 344-355, DOI: [10.1080/11250003.2011.642899](https://doi.org/10.1080/11250003.2011.642899)
7. Debajyoti Pradhan, IndraneelSaha, Aniruddha Chatterjee, Anushree Mondal, **Supriti Sarkar**& B.R. Maiti (2012) Alterations of circadian rhythms of thyroid-stimulating hormone, thyroid, adrenal and insulin hormones, and blood glucose profiles following lithium treatment in alternate Light–Dark, constant Light and constant Dark regimens in rats, *Biological Rhythm Research*, 43:3, 301-322, DOI: [10.1080/09291016.2011.579758](https://doi.org/10.1080/09291016.2011.579758)
8. Maiti BR, **Sarkar S**, Sarkar R, Sengupta SC, Pradhan D, Chatterjee A Inhibitions of thyroidal and extra-thyroidal T3, T4 and thyroperoxidase profiles with elevations of TSH

following lithium treatment in adult and aged rats. *Acta Endo (Buc)* 2010, 6 (2): 171-180
doi: 10.4183/aeb.2010.171

9. Prajna Paramita Ray, **Supriti Sarkar**, Santasri Chaudhuri-Sengupta & B. R. Maiti (2008) Adrenomedullary and Glycemic Alterations Following Diverse Stress in Soft-Shell Turtles *Lissemys punctata punctata* Bonnoterre, *Endocrine Research*, 33:3-4, 119-127, DOI: [10.1080/07435800802540263](https://doi.org/10.1080/07435800802540263)
10. **Sarkar S**, Sengupta A, Chaudhuri-Sengupta S, Maiti BR. Thyroid responses to altered photoperiod in the soft-shelled turtle *Lissemys punctata punctatabonnoterre*. *Acta Biol Hung*. 2007 Mar;58(1):11-9. doi: 10.1556/ABiol.58.2007.1.2. PMID: 17385540.
11. **SARKAR, S., RAY, P., CHAUDHURI-SENGUPTA, S. & MAITI, B.** (2006). Modulations of thyroid activity following reproductive hormonal manipulations in soft-shelled turtles, *Lissemys punctata punctata*. *Amphibia Reptilia*, 27(2):289–294. doi: 10.1163/156853806777239904
12. Ray PP, **Sarkar S**, Sengupta A, Chaudhuri-Sengupta S, Maiti BR. Roles of thyroid, adrenal and pancreatic hormones on thyroid activity of the soft-shelled turtles *Lissemys punctata punctata* Bonnoterre. *Folia Biol (Krakow)*. 2006;54(3-4):93-102. doi: 10.3409/173491606778557527. PMID: 17220003.
13. Amita Sengupta, **Supriti Sarkar**, Santasri Chaudhuri-Sengupta, Prajna Paramita Ray & B.R. Maiti (2004) Seasonal Thyroid Cycle of the Soft-shelled Turtle, *Lissemys p. punctata* (Bonnoterre), *Biological Rhythm Research*, 35:3, 205-212, DOI: [10.1080/09291010412331335751](https://doi.org/10.1080/09291010412331335751)
14. **Sarkar S**, Sarkar NK, Maiti BR. Oviductal sperm storage structure and their changes during the seasonal (dissociated) reproductive cycle in the soft-shelled turtle *Lissemys punctata punctata*. *Journal of Experimental zoology. Part A, Comparative Experimental Biology*. 2003 Jan;295(1):83-91. DOI: 10.1002/jez.a.10135. PMID: 12506406.
15. **Sarkar S**, Sarkar NK, Bhattacharyya S, Das P. Melatonin action on thyroid activity in the soft-shelled turtle, *Lissemys punctata punctata*. *Folia Biol (Krakow)*. 1997;45(3-4):109-12. PMID: 9643166.
16. Chaudhuri, P., Das, D., **Sarkar, S. et al.** Biochemical and immunological characterization of soluble antigens of *Giardia lamblia*. *Parasitol Res* **83**, 604–610 (1997). <https://doi.org/10.1007/s004360050304>
17. **Sarkar S**, Sarkar NK, Das P, Maiti BR. Photothermal effects on ovarian growth and function in the soft-shelled turtle *Lissemys punctata punctata*. *J Exp Zool*. 1996 Jan 1;274(1):41-55. doi: 10.1002/(SICI)1097-010X(19960101)274:1<41::AID-JEZ5>3.0.CO;2-F. PMID: 8583207.
18. **SARKAR, S., SARKAR, N. & MAITI, B.** (1996). Seasonal pattern of ovarian growth and interrelated changes in plasma steroid levels, vitellogenesis, and oviductal function in the adult female soft-shelled turtle *Lissemys punctata punctata*. *Canadian Journal of Zoology*, 74(2):303–311. doi: 10.1139/z96-038
19. **SARKAR, S., SARKAR, N. & MAITI, B.** (1995). Histological and functional changes of oviductal endometrium during seasonal reproductive cycle of the soft-shelled turtle, *Lissemys punctata punctata*. *Journal of Morphology*, 224(1):1–14. doi: 10.1002/jmor.1052240102

NATIONAL PUBLICATION (FULL RESEARCH PAPERS)

1. D Sengupta, **S Sarkar**, R Ray and N K Sarkar. Erythrocytic Indices in Some Indian Anurans (2002). *Trans. Zool. Soc. India* 6(2):8-14.
2. **S Sarkar**, N K Sarkar, S Bhattacharya and P Das. (1998). Nesting Biology of an Indian soft-shelled Turtle *Lissemys punctata punctata* In *Sustainable Development and Environment*. Cosmo Publication, India. pp44-53.

3. S Pal, K Sengupta, B Manna, **S Sarkar**, S Bhattacharya and P Das. (1996). Comparative Evaluation of Somatic and Excretory-Secretory Antigens Of *Entamoeba histolytica* serodiagnosis of Human Amoebiasis by ELISA.. Indian J. Med. Res104:152-156.
4. **Supriti Sarkar**. (1992). Effects of Food on Vitellogenin Synthesis and Follicular growth in Turtle Proc. Zool. Soc. 45 (Suppl.A):71-77.
5. Nirmal Kumar Sarkar, Ishani Banerjee, Sujit Das and **Supriti Sarkar**. (1990). Absence of Cytological Markers in Moloney's Lymphoblastic Leukemia of Mice. Environment and Ecology 8:770-771.
6. **Supriti Sarkar**, Avijit Mukherjee and Nirmal Kumar Sarkar (1990). Some Observation on the Behaviour of the Juveniles of the Freshwater Tortoise, *Lissemys punctata punctata*. Bonnaterre (Family: Trionychidae). Journal of Bengal Natural History Society 9:56-62.
7. Ishani Banerjee, **Supriti Sarkar**, Sujit Das and Nirmal Kumar Sarkar (1989). Characteristics of a mouse Cancer Cell and an Insecticide Treated Cell. Indian Journal of Landscape System and Ecological Studies 12:75-78.
8. **Supriti Sarkar**, Ishani Banerjee, Sujit Das and Nirmal Kumar Sarkar. (1989). Experimental Ethological Studies on a tortoise. Indian Journal of Landscape System and Ecological Studies 12:108-112

BOOKS, BOOK-CHAPTERS

1. **Supriti Sarkar** (2022) "Hard Immunity -----Covid-Cloud" (**Chapter 1**) In Quest, pg.-1-7. Ed by Uluberia College, Howrah-711315. ISBN:2319-2151
2. R.R.Hazra, S Roy, S Sarkar. (2022). "Effects of Lockdowe-----Paschim Bardhaman District" (**Chapter 12**). In "Covid -19 Pandemic and its Impact on Biodiversity". pg 123-141. Redshine, Publication PVT. LTD., India. ISBN:10:93-94727-93-0. Doi:10.25215/9394727930.
3. Supriti Sarkar (2022). Boichitra o BahareBharatborsherPakhi (**Chapter 13**). In PranPeloPrithibi. pg 107-148. Kabitika Publication. WB. ISBN:978-93-94830-06-6
4. **Supriti Sarkar(2017)**.Conservation Status and Strategy of Indian Fresh Water Turtles -Facts Beyond Research and Publication. In Defaunation and Conservation ed by S Pratihari and H O Clark, Jr. pg 82-94. Tucson Herpetological society, Tucson, Arizona, USA. ISBN:978-93-85248-79-5
5. **Supriti Sarkar(2016)**. Turtle-Extinction vs Conservation, InDirology ed by S Pratihari and. DK Agencies Pvt. Ltd. ISBN: 9789385248641
6. **Supriti Sarkar**, Gautam Kundu KorakKantiCkaki, (**2014**). Introduction to General Zoology (Vol.III), New Central Book Agency, Kolkata-9
7. KorakKantiCkaki, Gautam Kundu, **Supriti Sarkar.2008**. Introduction to GeneralZoology (Vol.II), New Central Book Agency, Kolkata-9
8. KorakKantiCkaki, Gautam Kundu, **Supriti Sarkar. 2005**. Introduction to General, New Central Book Agency, Kolkata-9
9. **Supriti Sarkar.2005**.Biophysics, Netaji Subhas Open Univ. Govt. of W.B

10. **Supriti Sarkar.2004.**Saral Bigyan (Life Science Book for Class VII), Shiksha Bikash, Kol.- 9

Papers presented in International/National Conference/Seminar: More than 25

Additional activities: Editorial /Referring Activities

Name of Journals	Activities	Completed Assignments
1.Proceedings of the Zoological Society, Springer	Reviewer	20 full papers
2. Journal of Clinical and Diagnostic Research, JCDR Research and Publications (P) Limited.	Editorial Board	03 full papers
3.Natural Product Research, Tailor and Francis.	Reviewer	02 full papers
4.European Journal of Integrative Medicine, Elsevier.	Reviewer	02 full papers
5. Journal of Clinical Pharmacy and Therapeutics. Wiley	Reviewer	01 full paper
6.Pharmacology Karger Publishers	Reviewer	02 full papers