

DR. SHREYASI GUPTA

Assistant Professor

M.Sc. (Zoology), Ph.D.

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» **Overview:**

I, Dr. Shreyasi Gupta am currently working as an Assistant Professor of Zoology in T.D.B. College. I have done my graduation (UG) and post-graduation (PG) degree from University of Calcutta in the year of 2009 and 2011 respectively. In PG, I opted 'Genetics and Molecular biology' as special paper and completed my Ph.D. degree from 'Molecular Endocrinology laboratory' of University of Kalyani in the year of 2018. I had also served as 'guest lecturer' in Budge Budge College (UG) (affiliated under CU) and Rishi Bankim Chandra College (PG) (Affiliated under WBSU) for 1 and half years in between 2016 to 2018. After a very brief period of post-doctoral research at Cell Biology and Physiology Department of IICB, Kolkata and School of Medicine, University of Louisville (USA), finally, I have joined the present Assistant Professor post in T.D.B. College on 14th July, 2020. I am a hardworking, spiritual person and my research interests are-neuroendocrinology, reproductive physiology, diabetology, hormonal regulation of cardiac physiology etc.

» **Date of appointment to the present job:**

14th July, 2020

» **Other Academic/ Administrative post:**

- National Service Scheme Unit II Programme Officer

» **Academic background:**

- Graduation: Zoology (H), BOTG, CHEMG (2009), Calcutta University
- Post-graduation: Zoology with 'Genetics Molecular Biology' Special paper (2011) Calcutta University
- B.Ed. (2013) Kalyani University
- Ph.D. in Zoology (2018) Kalyani University

» **Information about Ph.D.:**

- **Date of Award:** 20th July, 2018
- **Ph.D. Topic:** *Analysis of cytochrome P450 arom gene in Labeo rohita: Tissue- specific distribution, ontogenic expression and estrogen regulation.*

» **Professional Qualifications:**

N. A.

» **Publications in Journals:**

1. **Gupta, S.,** Mukhopadhyay, S., & Mitra, A. (2022). Therapeutic potential of GHSR-1A antagonism in alcohol dependence, a review. Life sciences, 291. (<https://doi.org/10.1016/j.lfs.2022.120316>)
2. **Gupta, S.,** Mitra, A. Challenge of post-COVID era: management of cardiovascular complications in asymptomatic carriers of SARS-CoV-2. Heart Fail Rev (2021). (<https://link.springer.com/article/10.1007/s10741-021-10076-y>)

3. **Gupta, S.**, Mitra, A. Heal the heart through gut (hormone) ghrelin: a potential player to combat heartfailure. *Heart Fail Rev* (2020). (<https://doi.org/10.1007/s10741-020-10032-2>)
4. **Gupta, S.**, & Sen, U. More than just an enzyme: dipeptidyl peptidase-4 (DPP-4) and its association with diabetic kidney remodeling. (2019) *Pharmacological research*, 147, 104391. (<https://www.sciencedirect.com/science/article/abs/pii/S1043661819309685?via%3Dihub>)
5. Transforming Growth Factor- β 2 and Its Receptor Type II Messenger RNA Levels in Mice Endometrium and Their Regulation by Sex Steroids During Estrous Cycle. Guha, P., **Gupta, S.**, Majumder, S., Chakraborty, A., Nath, D. and Mukherjee, D. (2019). In *Proceedings of the Zoological Society*, Springer India. (DOI: <https://doi.org/10.1007/s12595-018-0281-z>)
6. **Gupta, S.**, Guha, P., Majumder, S., Pal, P., Sen, K., Chowdhury, P., ... & Mukherjee, D.. Effects of bisphenol A (BPA) on brain-specific expression of cyp19a1b gene in swim-up fry of *Labeo rohita*. (2018) *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, 209, 63-71. (<https://www.sciencedirect.com/science/article/abs/pii/S1532045618300449>)
7. Estrogen-regulated expression of P450arom genes in the brain and ovaries of adult female Indian climbing perch, *Anabas testudineus*. Pal, P., Roymoulik, S., **Gupta, S.**, Majumder, S., Guha, P., Kundu, S., Mukherjee, D., (2018) *J. Exp. Zoo*; 329, 29-42. (<https://onlinelibrary.wiley.com/doi/abs/10.1002/jez.2158>)
8. Molecular mechanism of mercury-induced reproductive impairments in banded gourami, *Trichogaster fasciata*. Guchhait, R., Chatterjee, A., **Gupta, S.**, Debnath, M., Mukherjee, D. and Pramanick, K., (2018) *General and comparative endocrinology*, 255, 40-48. (<https://www.sciencedirect.com/science/article/pii/S0016648017302782>)
9. Membrane receptor cross talk in gonadotropin-, IGF-I-, and insulin-mediated steroidogenesis in fish ovary: an overview. Mukherjee D, Majumder S, Roy Moulik S, Pal P, **Gupta S**, Guha P. *General and Comparative Endocrinology* (2017) 240, 10-18 (<https://www.sciencedirect.com/science/article/pii/S001664801630257X>)
10. Estrogen-regulated expression of cyp19a1a and cyp19a1b genes in swim-up fry of *Labeo rohita*. **Gupta, S.**, Moulik, S.R., Pal, P., Majumder, S., Das, S., Guha, P., Jain, S.K., Panigrahi, A.K. and Mukherjee, D., (2017). *General and comparative endocrinology*, 251, 85-93. (<https://www.sciencedirect.com/science/article/pii/S0016648017304616?via%3Dihub>)
11. Gonadotropin and sf-1 regulation of cyp19a1a gene and aromatase activity during oocyte development in the rohu, *L. rohita*. Roy Moulik S, Pal P, Majumder S, Mallick B, **Gupta S**, Guha P, Roy S, Mukherjee D. *Comp Biochem Physiol A Mol Integr Physiol.* (2016) 23; 196:1-10. (<https://www.sciencedirect.com/science/article/pii/S1095643316300228?via%3Dihub>)
12. Association of endogenous testosterone with lipid and blood glucose profiles in elderly men with angiographically proven cardiovascular disease of Nadia and Murshidabaddistrict, West Bengal. Chowdhury P, Sen K, **Gupta S**, Majumder S, Guha P, Chakraborty A, Chandra K. A, Mukherjee D. *Proceedings of Zoological Society* (2016) 1, 1-18 (<https://link.springer.com/article/10.1007/s12595-016-0184-9>)
13. Effects of phenol on ovarian P450arom gene expression and aromatase activity in vivo and antioxidant metabolism in common carp *Cyprinus carpio*. Das, S., Majumder, S., **Gupta, S.**, Dutta, S. and Mukherjee, D. *Fish physiology and biochemistry* (2016),

42, 275-286. (<https://link.springer.com/article/10.1007%2Fs10695-015-0135-9>)

14. Mukherjee, D., Majumder, S., Moulick, S. R., Pal, P., Mallick, B., Chakraborty, A., & **Gupta, S.** (2014). Signaling Pathways in Insulin-and IGF-I Mediated Oocyte Maturation in Lower Vertebrates. *IJBB*; 520-526. (<https://pubmed.ncbi.nlm.nih.gov/25823225/>)

» **Books and Chapters:**

• **Books:**

1. Mukherjee, D., Sen, K., Gupta, S., Chowdhury, P., Majumder, S., & Guha, P. (2020). Role of Androgens in Cardiovascular Diseases in Men: A Comprehensive Review. In *Chemistry and Biological Activity of Steroids*. Intech Open.

• **Chapters:**

N. A.

» **Seminars, Conferences, Webinars and workshops attended:**

- Seminars/ Conferences/ Workshops: 06

» **Life Membership:**

N. A.

» **Awards/ Academic Achievements:**

N. A.

» **Professional Courses:**

- Orientation Programme/FIP/FDP: 01
- Refresher Course: 00
- Short Term Course: 00

» **Others/ Miscellaneous:**

1. Seminar on “Biological thoughts: micro and macro” organized by Department of Zoology in association with zoological society, Kolkata on 9th February, 2010.
2. National Workshop on Bioinformatics Applications, QSAR and QSTR organized by DBT centre for bioinformatics, Presidency University, Kolkata & APT software avenues PVT. LTD, Kolkata during 25- 26th march 2011.
3. Celebrating international decade of biodiversity: one day satellite symposium on “Biodiversity, Technology domains and Spatial scale analysis” organized by department of zoology, University of Calcutta and in association with zoological society Kolkata, on 30th March 2011.
4. Oral presentation in International symposium on Comparative Endocrinology and Integrative Physiology 2015 held from 4-7th August 2015 in Trivandrum, Kerala, India.
5. Poster Presentation in UGC sponsored National Seminar on “Biodiversity: exploration, conservation and management- vision and mission” held from 19th- 20th November, 2016, Post Graduate Department of Zoology, Barasat Govt. College in collaboration with The Zoological Society, Kolkata and West Bengal Biodiversity Board.
6. Poster presentation in International Symposium on Recent Advances in Comparative Endocrinology from November 29th to December 1st, 2017 in Madras Christian College, Chennai, India.