

Professional Summary

Doctoral fellow with six years of research experience in reproductive toxicology using rat models. Expertise in animal handling, histological study, biochemical analysis and some molecular biology techniques. More than two years of teaching experience in two different institutes in the field of Zoology and Biotechnology.

Writing Experience

- ❖ Author of more than seven publications in peer-reviewed journals including four as first author and more than three as co-author.
- ❖ First author, co-author and corresponding author of more than ten book chapters.
- ❖ Author of Doctoral thesis entitled “Assessment of fluoride induced male reproductive disorders in adult Wistar rats and its amelioration by supplementation of vitamin C and E” (Awarded in 2024).

Publications:

Research Articles:

1. Maity J, **Pal P**, Ghosh M, Naskar B, Chakraborty S, Pal R, Mukhopadhyay PK. Molecular Dissection of the Arsenic-Induced Leukocyte Incursion into the Inflamed Thymus and Spleen and Its Amelioration by Co-supplementation of L-Ascorbic Acid and α -Tocopherol. *Biol Trace Elem Res*. 2024 Sep 26. doi: 10.1007/s12011-024-04378-z. Epub ahead of print. PMID: 39325335.
2. Maity, J., **Pal, P.**, Pal, R. et al. Co-administration of L-Ascorbic Acid and α -Tocopherol Alleviates Arsenic-Induced Immunotoxicities in the Thymus and Spleen by Dwindling Oxidative Stress-Induced Inflammation. *Biol Trace Elem Res* (2023). <https://doi.org/10.1007/s12011-023-03841-7>
3. Biswas S, **Pal P**, Mondal R, Mukhopadhyay PK. Casein and pea enriched high-protein diet attenuates arsenic provoked apoptosis in testicles of adult rats. June 2023, *Toxicology Research*. DOI: [10.1093/toxres/tfad043](https://doi.org/10.1093/toxres/tfad043)
4. Mondal R, **Pal P**, Biswas S, Chattopadhyay A, Bandyopadhyay A, Mukhopadhyay A, Mukhopadhyay PK. Attenuation of sodium arsenite mediated ovarian DNA damage, follicular atresia, and oxidative injury by combined application of vitamin E and C in post pubertal Wistar rats. *NaunynSchmiedeberg's Arch Pharmacol*. 2023 Oct;396(10):2701-2720.
5. **Pal P**, De A, Roychowdhury T, Mukhopadhyay PK. Vitamin C and E supplementation can ameliorate NaF mediated testicular and spermatozoal DNA damages in adult Wistar rats. *Biomarkers*. 2022 Mar 8:1-14. doi: 10.1080/1354750X.2022.2048891. Epub ahead of print. PMID: 35232301.
6. **Pal P**, Mukhopadhyay PK. Fluoride induced testicular toxicities in adult Wistar rats. *Toxicol Mech Methods*. 2021 Jun;31(5):383-392. doi: 10.1080/15376516.2021.1891489. Epub 2021 Feb 28. PMID: 33641618

Review Articles:

1. **Pal P**, Jha NK, Pal D, Jha SK, Anand U, Gopalakrishnan AV, Dey A, Mukhopadhyay PK. Molecular basis of fluoride toxicities: Beyond benefits and implications in human disorders. *Genes Dis.* 2022 Sep 21;10(4):1470-1493.
2. **Pal P**, Biswas S, Mukhopadhyay PK. Molecular perspective concerning fluoride and arsenic mediated disorders on epididymal maturation of spermatozoa: A concise review. *Hum Exp Toxicol.* 2021 Dec;40(12):2025-2038. doi: 10.1177/09603271211021474. Epub 2021 Jun 4. PMID: 34085563.
3. Mondal P, **Pal P**; Immunotoxicity caused by excessive mercury exposure: A brief overview, *International Journal of Immunology Research* 2024; 6(1): 01-03
4. Chourasia S, **Pal P**; Impact of chlordecone exposure on reproductive system: A concise review, *International Journal of Biology Sciences* 2024; 6(1): 124-128
5. Das R, **Pal P**; The mechanistic approach of arsenic mediated neurotoxicity-a concise review, *International Journal of Neurology Research* 2024; 6(1): 05-08

Book Chapter:

1. **Pal P**, Biswas S, Mondal R, Mukhopadhyay PK. The role of reactive oxygen species in health and disease – a chapter entitled “Fluoride and arsenic mediated oxidative damage can cause disorders in reproductive system”. Nova Science Publishers. Accepted October, 2022.
2. **Pal, P.**, De, D., Banik, R.D., Paul, S. (2023). Book chapter - an overview of the mechanistic approach to rna interference.
3. Banik, R.D., De, D., **Pal, P.** (2023). Book chapter - horizontal gene transfer in the evolution of microbial genomes.
4. Paul, S., De, D., **Pal, P.**, Ghosh, B. (2023). Book chapter – unveiling epigenetics and human diseases: focus on cancer epigenetics.
5. De, D., **Pal, P.**, Banik, R.D., Paul, S. (2023). Book chapter - unraveling the wonders of genome sequencing and its advance method next generation sequencing.
6. Goswami P, **Pal P**, The Regulatory Genes of Lung Cancer - A Brief Review; 2024, DOI: 10.22271/ed.book.2879, ISBN: 978-93-6135-236-2
7. Shaw S, **Pal P**, Synthetic Seed Technology: Current Views, 2024, DOI: 10.62778/int.book.451, ISBN: 978-93-5834-281-9
8. Mahapatra SD, **Pal P**, The Current Approach to Bioartificial Pancreas, DOI: 10.62906/bs.book.213, ISBN: 978-93-6233-478-7

9. Mukherjee S and **Pal P**, Foodomics and Its Analytical Techniques, 2024, DOI: 10.62778/int.book.479, ISBN: 978-93-5834-436-3
10. Roy AS, **Pal P**, A Brief Overview of DNA Damage and Apoptosis Caused by Provoked Oxidative Stress, 2024, DOI: 10.22271/ed.book.2993, ISBN: 978-93-6135-406-9

Research experience and skills

Presidency University (2017-23)

Evaluation of fluoride-mediated male reproductive disorders with special emphasis on testis, epididymis and spermatozoa. Adult male Wistar rats were used for an in-vivo study to assess fluoride-mediated reproductive anomalies. The extent of reproductive disorders was evaluated by analysis of structure-function integrity and as well as signaling cascades. The primary goal of my research was to examine the disarrays of various epididymal segments and the spermatozoa that were isolated from those segments under the risk of fluoride. The ameliorative potential of vitamin C and E against fluoride-mediated reproductive anomalies was also studied.

Skills:

- Histology
- Histomorphometry
- Scanning electron microscopy
- Biochemical analysis
- ELISA
- Agarose gel electrophoresis
- SDS-PAGE
- PCR
- FACS
- Immunofluorescence
- Expertise in the preparing of laboratory animal models

Teaching experience

- ❖ Former visiting faculty member of Zoology at Vedanta College, Kolkata (affiliated to University of Calcutta) from September 2022 to June 2023.
- ❖ Academic Counselor of Indira Gandhi National Open University (IGNOU) from September 2022 to June 2023.
- ❖ Assistant Professor of Swami Vivekananda University, Barrackpore, West Bengal from July 2023 to present.

Education

➤ **Master of Science (M.Sc)**

University: University of Calcutta (Vidyasagar College)

Subject: Zoology

Year of Passing: 2015

Percentage: 74.3

Special paper: Entomology

➤ **Bachelor of Science (B.Sc) Honours**

College: Serampore College

Honours Subject: Zoology

University: University of Calcutta

Year of Passing: 2013

Percentage: 61.12

Professional qualification

- ▶ CSIR NET (Life Sciences) Lectureship (LS) – December, 2016; June, 2017; December, 2017
- ▶ West Bengal State Eligibility Test (WBSET) - 2019
- ▶ GATE Life Sciences – 2022

Personal profile

Name: Priyankar Pal

Date of Birth: 13/07/1992

Father Name: Chandrakanta Pal

Mother Name: Madhumita Pal

Permanent Address: Village and P.O. – Rajbalhat, Dist.- Hooghly, Pin-712408, P.S.- Jangipara

Declaration

I hereby declare that all the statements in my curriculum vitae are authentic, complete and correct to the best of my knowledge and belief.

Priyankar Pal

Signature

