



Avipsha Mondal

Nationality: Indian **Date of birth:** 23/07/2001 **Gender:** Female

Phone number: (+91) 9123046949 **Email address:** avipshamondal@gmail.com

LinkedIn: www.linkedin.com/in/avipsha-mondal-067b3b229

Home: krishnanagar P.O.-R.C. Thakurani, Kolkata: 700104, India, 700104 Kolkata (India)

ABOUT ME

I am a passionate educator with an M.Sc. in Zoology and a commitment to fostering engaging and inclusive learning environments. Skilled in designing interactive lessons, I emphasize clarity and critical thinking to help students achieve their full potential. With strong communication and mentoring abilities, I strive to inspire curiosity and a love for learning.

WORK EXPERIENCE

Private tutor (Biology & Science)

Self employed [2014 – Current]

City: KOLKATA | Country: India

Giving private tuitions to underprivileged students for Science subjects (Life science, Physical Science, Mathematics, and chemistry) to classes 5-10 and Biology to classes 11-12 of all ICSE, CBSCE, and WB Board

Teaching Assistantship at Scienspur Developmental Biology Spring 2024

Scienspur, Mittal Institute, Harvard University [02/2024 – 05/2024]

City: Remote | Country: United States

Communicate with instructors and students of the course

Assist instructors

Preparing study material for students

Lab intern

Calcutta Medical Research Institute, Department of Pathology. [08/2023 – 01/2024]

City: KOLKATA | Country: India

Sample centrifugation and preparation | Serum extraction | Measurement of blood parameters

Student research intern

Endocrinology lab, Department of Zoology, Gurudas College, University of Calcutta [07/2022 – 07/2023]

City: KOLKATA | Country: India

Blood sample collection from male albino rat | Serum separation | Animal handling | ELISA | PCR | Gel electrophoresis | Optical microscopy | Histological slide preparation and observation | Chromosome analysis on bone marrow samples | Comparative analysis | Graphpad prism 8

EDUCATION AND TRAINING

Bachelors in Education (B.Ed)

Baba Saheb Ambedkar Education University [2023 – Current]

City: KOLKATA | Country: India | Website: <https://bsaeu.in/>

Master of Science in Zoology

University of Calcutta [2021 – 2023]

City: KOLKATA | Country: India | Website: <https://www.caluniv.ac.in/> | Field(s) of study: Zoology | Final grade: A | Type of credits: CGPA | Number of credits: 7.420/10 | Thesis: Spirulina in amelioration of BPA induced toxicity in male albino rats (Rattus norvegicus)

Animal handling, ELISA, Histological slide preparation, Optical microscopy, Micrometry, Spectrophotometry, Gel electrophoresis, PCR, Comparative analysis, Graphpad Prism 8

Bachelor of Science with Honours in Zoology

Scottish Church College, University of Calcutta [2018 – 2021]

City: KOLKATA | Country: India | Website: <http://www.scottishchurch.ac.in/> | Field(s) of study: Zoology, Botany, Chemistry, Environmental Science, English language | Final grade: A+ | Type of credits: CGPA | Number of credits: 8.026/10 | Thesis: Ecosystem and its Biodiversity Assessment of Tadoba Andhari Tiger Reserve and Bor Tiger Reserve

Sample collection and storing, Data sorting and presentation, comparative analysis

Higher Secondary Education

United Missionary Girls High School, WBCHSE [2016 – 2018]

City: KOLKATA | Country: India | Website: <http://wbchse.wb.gov.in/> | Field(s) of study: English, Bengali, Maths, Biology, Physics, Chemistry | Final grade: B+

Secondary Education

United Missionary Girls High School, WBBSE [2015 – 2016]

City: KOLKATA | Website: <http://wbbse.wb.gov.in/> | Field(s) of study: Bengali, English, Maths, Life science, Physical science, History, Geography | Final grade: A

PROJECTS

[2022 – 2024]

Spirulina in amelioration of BPA induced toxicity in male albino rats (*Rattus norvegicus*)

The project is done under the supervision of Dr. Kakoli Sau, Associate Professor, Department of Zoology, Gurudas College. The thesis report represents different haematological and histopathological changes due to the administration of BPA to male albino rats in both a dose-dependent and time-dependent manner. It also states spirulina's protective effect on BPA-induced hepatotoxicity in both a dose and time-dependent manner.

[2023 – 2024]

The Importance of Total Iron Binding Capacity Value in Predicting The Tendency of Hyperalbuminemia in Aged Iron Deficient Patients Without Any Prior History of Chronic Illness

Dr. Susruta Sen, Department of Biochemistry, CMRI, Kolkata, India, supervised the dissertation. The project uses a group of iron-deficient patients who have never had a major illness to investigate the age-related relationship between total iron binding capacity and different plasma proteins.

[2022 – 2023]

Pigment Epithelium-Derived Factor (PEDF) as an early marker of reproductive aging in female- a crossectional study

The review is done under the supervision of Dr. Kakoli Sau, Associate Professor, Department of Zoology, Gurudas College, & Dr. Monika Mehta, Associate Professor, Department of Zoology, Gurudas College. This review report presents PEDF as a potential candidate for the early detection of reproductive aging in females. It also states the relation of PEDF with age-related uterine cancers and the probable underlying mechanism by which PEDF ameliorates oxidative stress in the female reproductive system.

[2023]

Ecosystem and Biodiversity assessment of Nagzira Tiger Reserve, Maharashtra, India

The dissertation is done under the supervision of Prof. Suman Purohit, Assistant Professor; Prof. Aziz Hasan Mondal, Assistant Professor; and Dr. Umasankar Pal, Associate Professor, Department of Zoology, Gurudas College, India. The project encompasses the description of various ecosystems present in Nagzira Tiger Reserve, Maharashtra, India. It also contains an account of the diverse flora and fauna that are found there. An attempt has been made herein to present an idea about the different kinds of animals present in their distribution.

[2020 – 2021]

Ecosystem and its Biodiversity Assessment of Tadoba Andhari Tiger Reserve and Bor Tiger Reserve

The dissertation is done under the supervision of Prof. Swagata Chattopadhyay, Assistant Professor, Department of Zoology, Scottish Church College, India. The project encompasses the description of various ecosystems present in Tadoba Andhari Tiger Reserve, Chandrapur, Maharashtra, India; and Bor Tiger Reserve, Manoli, Maharashtra, India. It also contains an account of the diverse flora and fauna that are found there. An attempt has been made herein to present an idea about the different kinds of animals present in their distribution.

ACADEMIC ACHIEVEMENTS AND CERTIFICATION

[25/05/2023 – 31/05/2023]

Workshop on cellular-to-molecular investigation of macromolecules

Workshop organized by IQAC, Gurudas College, Kolkata, India in collaboration with Andragogy Lifesciences. 3rd positionholder in the evaluation of the workshop.

[26/04/2023 – 29/04/2023]

Hands-on training on Basic molecular biology application

Workshop organized by Sarsuna College, University of Calcutta, India

[25/09/2019 – 26/09/2019]

Science model presentation in Kolkata district student youth science fair 2019

Presented science model at the science fair held at Birla Industrial & Technological Museum, Kolkata, organized by the Department of Youth Services & Sports, Government of West Bengal, India

EXTRA-CURRICULAR CERTIFICATION

[2019]

Teachers training in Kathak Dance & Rabindra Nritya (Equivalent to Master's degree) from Bangia Sangeet Kala Kendra, India

[2018]

Nritya Shree (Diploma) in Kathak Dance & Rabindra Nritya from Bangiya Sangeet Kala Kendra, India

[2018]

Chitra Visharad In Fine Arts (Equivalent to Bachelor's Degree) from Pracheen Kala Kendra, Chandigarh, India

[2013]

Chitra Bhusan In Fine Arts (Diploma) from Pracheen Kala Kendra, Chandigarh, India

PUBLICATIONS

[2023]

Pigment Epithelium – Derived Factor (PEDF) as an Early Marker of Reproductive Aging in Female –A Crossectional Study

Mondal, Avipsha. (2023). Pigment Epithelium - Derived Factor (PEDF) as an Early Marker of Reproductive Aging in Female - A Crossectional Study. International Journal of Science and Research (IJSR). 12. 1062-1067. 10.21275/SR23810201609.

[2023]

The Importance of Total Iron Binding Capacity Value in Predicting The Tendency of Hyperalbuminemia in Aged Iron-Deficient Patients Without Any Prior History of Chronic Illness

Sen, Susruta & Mondal, Avipsha & Debangshi, Sourav & Pathak, Indrani & Sharmistha, Choudhuri. (2023). The Importance of Total Iron Binding Capacity Value in Predicting The Tendency of Hyperalbuminemia in Aged Iron-Deficient Patients Without Any Prior History of Chronic Illness. Journal of Applied Biochemistry & Laboratory Medicine. 4. 1-10. 10.5005/JABLM-11031-04205.

CONFERENCES AND SEMINARS

[12/05/2023] Kolkata, India

One Day International Seminar on “Impact of modern civilization on health and disease”

3rd position holder on the poster presentation: Infertility and EMF: A crossectional study. organised by the Department of Zoology, Gurudas College

[24/02/2023 – 25/02/2023] Kolkata, India

Human disease and therapeutics- A lifelong Quest symposium

1st position holder on the poster presentation: Reflection of Spirulina on total blood cell count of BPA-treated male albino rats.
Organized by JIS Institute of Advanced Studies and Research, Kolkata.

[25/11/2022] Kolkata, India

One Day National Symposium on “Evolution of Homo Sapiens: Through the looking-glass of ancient DNA”

2nd position holder on the poster presentation: Dosage compensation in humans, an Evolutionary aspect. Organized by Indian National Science Academy, Kolkata in collaboration with the Department of Zoology, Diamond Harbour Women’s University.

[16/04/2022 – 19/04/2022] Sundarban Biosheper Reserve, India

1st Diversity India Meet,2022

Organised by Nature mates- Nature club and Diversity India.

ONLINE CERTIFICATION

[10/2023 – 02/2024]

Student trainee at Scienspur Cell biology Fall 2023

Apprenticeship | Scienspur, Mittal Institute, Harvard University

[08/2022]

Ecosystem Dynamics and Conservation

Online course | American Museum of Natural History

[03/2023]

Basics of Rescue and Rehabilitation of Freshwater Macro-fauna in Ganga Basin

Online course | Wildlife Institute of India

[12/2021]

Attended World Science Festival 2021

Talk attended:

- "From chemistry to life" by Prof. Dimitar Sasselov, Department of Astronomy, Harvard University.
- "Ocean in peril" by Prof. Sylvia Earle, NOAA, National Geographic.

[11/2021 – 01/2022]

National Geographic course series on wildlife conservation

Courses done:

- Ocean Challenges and Solutions
- Understanding Illegal Wildlife Trade
- Introduction to Conservation
- Prioritizing Species and Space

[12/2021]

Ecology and Wildlife Conservation

Online course | University of Leeds.

CREATIVE WORKS

[2020]

Founder and creative writer at theunseenmiles

[2014 – 2018]
Core committe member of activity club at United Missionary Girls' High School, Kolkata, India

[2019]
Holder of Chitra Bhaskar Part 1 on Fine arts, awarded by Pracheen Kala Kendra, Chandigarh, India

HOBBIES AND INTERESTS

Fine arts, music, dance, travelling, writing, photography

LANGUAGE SKILLS

Mother tongue(s): Bengali

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Hindi

LISTENING B2 READING B1 WRITING B1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Kolkata, India, 02/01/2025

Avipsha Mondal.

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