

RESUME



DR. PUJA ROY

Doctor of Philosophy(Ph.D)in Physiology

Awarded on 11th June 2024

Assistant Professor

Department of Medical Laboratory Technology

Swami Vivekananda University

School of Allied Health Sciences

Telinipara, Barasat - Barrackpore Road, Bara Kanthalia, West Bengal - 700121,
India

CORE COMPETENCIES

- **Research Expertise:** Experimental Physiology, Endocrinology, Reproductive Physiology, Histological Techniques, and Stress-Induced Dysfunction.
- **Technical Skills:** Fine Animal Dissection, Flow Cytometry (Basic), and MS Office.
- **Specialized Knowledge:** Thermo-inflammatory redox imbalance and HSP expression modulation.

TEACHING SKILLS & ACADEMIC CONTRIBUTIONS

- **Curriculum Development:** Designing and delivering lectures for Medical Laboratory Technology and Physiology courses.
- **Laboratory Instruction:** Expert in conducting practical sessions for Experimental Physiology and Histological studies.
- **Student Mentorship:** Guiding students in Allied Health Sciences on research methodology and clinical lab practices.
- **Modern Pedagogy:** Utilizing ICT tools and digital resources for interactive classroom learning.
- **Assessment & Evaluation:** Skilled in preparing examination papers, conducting vivas, and evaluating student performance.

DATE OF BIRTH : 18/02/1994

CONTACT DETAILS :

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Residential address: S.K.Basu Road , Banasree Para, Krishnagar, Nadia

Mobile: 7679323263, 9593730361

PROFESSIONAL DEVELOPMENT

- **Faculty Development:** Completed NPTEL-AICTE Programme in *Human Physiology* (Score: 76%).
- **Specialized Training:** 5-day hands-on training on **Flow Cytometry** (2016).
- **Language Proficiency:** Fluent in English, Bengali, and Hindi.
- **IT Skills:** Diploma in Computer Applications (DCA).

ACADEMIC QUALIFICATIONS

- *Doctor of Philosophy (Ph.D.) | 2024 University of Calcutta*
- *Master of Science (M.Sc.) in Human Physiology | 2017 University of Calcutta*
- *Bachelor of Science (B.Sc.) in Physiology (Honours) | 2015 University of Kalyani*
- *Higher Secondary (H.S.) | 2012 West Bengal Council of Higher Secondary Education (W.B.C.H.S.E)*
- *Secondary Education (Madhyamik) | 2010 West Bengal Board of Secondary Education (W.B.B.S.E)*

- **Ph.D. Thesis title:** "Protective Effect Of Resveratrol On Heat Exposed Stress Induced Testicular Dysfunction" under the supervision of Dr. Asima Das.

- **PRESENTATION OF WORK:**

Poster presentation:

1. "Modulation of heat shock protein (HSP) expression by resveratrol in the testicular cells as a major protective action against acute whole body heat exposure." Puja Roy, Soumya Sundar Kumar, Asima Das. XXXth Annual Conference of the Physiological Society of India (PSI)- Frontiers in Translational Physiology: Molecules to Public Health, organized by Department of Physiology (UG &PG), Serampore College, held during 22nd - 24th November, 2018.

2. "Protective Effect of Resveratrol against whole body heat induced oxidative damage in testicular tissue." Puja Roy, Soumya Sundar Kumar, Asima Das. National Conference on Future India: Science and Technology, jointly organized by City College and Indian Science Congress association Kolkata, held during 27th -28th February, 2019.

ORAL PRESENTATION:

1. “Thermo-inflammatory Nrf2-NfκB redox imbalance and its modulation by resveratrol in testicular tissue.” Puja Roy, Soumya Sundar Kumar, Asima Das. 4th Regional Science Congress (Western Region), 2019, jointly organized by University of Burdwan, and Department of Science and Technology and Biotechnology, Government of West Bengal, held during 9- 10 December, 2019.

WEBINER/SEMINER/WORKSHOP ATTENDED:

1. 4 th Regional Science & Technology Congress (Western Region), jointly organized by The University of Burdwan and Department of Science & Technology and Biotechnology Government of West Bengal, December 9-10, 2019.
2. One-day National symposium on “Molecular Aspects of Human Diseases” at the Department of Physiology, Serampore College, held on 19th March, 2016.
3. Hands-on Training on: Flow Cytometry (Basic) from February 4-8, 2016. Organized by Department of Physiology (UG &PG), Serampore College, Serampore, Hooghly in collaboration with Cytometry Solutions Pvt.Ltd., Kolkata.
4. Annual Scientific Seminar organized by Department of Physiology (UG &PG), Serampore College.
5. Public lectures on: Radiation Hazard and Related Issues in Diagnostic Radiology; Past, Present and Future of Cancer Radiotherapy, organized by Society For Radiation Research (SRR) on its fourth foundation anniversary jointly with Department of Physiology, University of Calcutta, on 15th December, 2018.
6. One-day seminar organized by Department of Physiology, University of Calcutta and Indian Science Congress Association, Kolkata. Estrogen Stimulation of Primordial Follicle Assembly Requires The Action of Bone Morphogenic Protein-2 (BMP2), held on 11th January 2019.
7. Scientific Interaction on Emerging Biomedical Sciences, Indian Association of Biomedical Scientists, IABMS Eastern Regional Chapter (ERC) organized by University of Calcutta on 20th august, 2016.

8. Webinar on “Immune Response to SARS-CoV-2 and Treatment Strategy” organized by Department of Physiology, Raja Peary Mohan College, Uttarpara, Hooghly on 2nd August, 2020.

9. Two-day Webinar on “Host-Microbe Interactions: Present and Future Perspectives” organized by School of Biotechnology, Department of Life Sciences, Presidency University, Kolkata, held on August 6-7, 2020.

CONFERENCE ATTENDED:

1. XXXth Annual Conference of the Physiological Society of India (PSI)- Frontiers in Translational Physiology: Molecules to Public Health, organized by Department of Physiology (UG &PG), Serampore College, held during 22nd -24th November, 2018.
2. National Conference on Future India: Science and Technology, jointly organized by City College and Indian Science Congress association Kolkata, held during 27th - 28th February, 2019.
3. International Conference on Vision, Diagnostic Imaging and Rehabilitation Sciences 2026

PUBLICATION:

PAPER:

1. “Resveratrol Protects Whole Body Heat Stress-Induced Testicular Damage in Rat Model”. Puja Roy, Soumya Sundar Kumar, Asima Das. Asian Journal of Pharmaceutical and Clinical Research. Vol 15, Issue 5, 2022.
2. “Radiomics guided personalized risk prediction model using ultrasound imaging and FNAC cytology in thyroid carcinoma”. Abhinaba Gupta, Mahi Shankar Mondal, Wasim Firoz Molla, Dr. Puja Roy. Journal of Cytology and Histopathology Research. Vol 14, Issue 2, ISSN: 2348-9804, August 14, 2026.

BOOK CHAPTER

1. Book Name: **Fundamental of Health and Basic Health care System** (volume 10)
Chapter Name: **Communicable Diseases** (FHBHCS-10-01)
Author Name: Dr. Puja Roy
Publisher: Akinik Publication

Date of Acceptance: 03-02-2026

2. Book Name: **Pharmacology for Modern Health Sciences**

Chapter Name: **Gastrointestinal Pharmacology**

Author Name: Dr. Puja Roy

ISBN: 978-93-5737-883-3

Date of Acceptance: April 2026

3. Book Name: **Inborn and Acquired Metabolic Disorders: A Biochemical Approach**

Chapter Name: **Hormonal and Endocrine Metabolic Disorders**

Author Name: Dr. Puja Roy

ISBN: 978-93-5469-789-0

Date of Acceptance: 2026

4. Book Name: **Pathogens in Practice**

Chapter Name: **Diagnostic Virology: Principles and Laboratory Techniques**

Author Name: Dr. Puja Roy

ISBN: 978-93-5768-861-1

Date of Acceptance: 2026

5. Book Name: **Principles of Parasitic Diseases in clinical Diagnostics**

Chapter Name: **Medical Entomology and Vector Identification**

Author Name: Dr. Puja Roy

ISBN: 978-93-5759-572-8

Date of Acceptance: 2026

6. Book Name: **Foundations and Frontiers of Hematology**

Chapter Name: **Disorders of Red Blood Cells**

Author Name: Dr. Puja Roy

ISBN: 978-93-5717-560-9

Date of Acceptance: 2026

7. Book Name: **Anatomy of the Human Body: From Cells to Systems**

Chapter Name: **The Reproductive System: Male and Female Anatomy**

Author Name: Dr. Puja Roy

ISBN: 978-93-5679-869-4

Date of Acceptance: 2026

ABSTRACT PUBLICATION:

1. “Modulation of heat shock protein (HSP) expression by resveratrol in the testicular cells as a major protective action against acute whole body heat exposure.” Puja Roy, Soumya Sundar Kumar, Asima Das. XXXth Annual Conference of the Physiological Society of India (PSI)- Frontiers in Translational Physiology: Molecules to Public Health, organized by Department of Physiology (UG &PG), Serampore College, held during 22nd - 24th November, 2018.

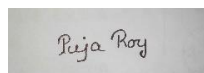
2. “Protective Effect of Resvertarol against whole body heat induced oxidative damage in testicular tissue.” Puja Roy, Soumya Sundar Kumar, Asima Das. National Conference on Future India: Science and Technology, jointly organized by City College and Indian Science Congress association Kolkata, held during 27th -28th February, 2019.

3. “Thermo-inflammatory Nrf2-NfκB redox imbalance and its modulation by resveratrol in testicular tissue.” Puja Roy, Soumya Sundar Kumar, Asima Das. 4th Regional Science Congress (Western Region), 2019, jointly organized by University of Burdwan, and Department of Science and Technology and Biotechnology, Government of West Bengal, held during 9- 10 December, 2019.

Declaration: *I hereby declare that all the information provided in this CV is true and correct to the best of my knowledge and belief.*

Date: 14th September 2026

Place: Barrackpore

A rectangular box containing a handwritten signature in cursive script that reads "Puja Roy".

(Signature)

PUJA ROY