

Pallab Majumder (MBBS, MSc, Ph.D. Researcher)

Verona, Italy

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PROFESSIONAL SUMMARY

Dedicated doctoral researcher in Immunology and Neuroinflammation with a strong foundation in molecular biology, clinical medicine, and translational research. Skilled in assay development, immunoassays, advanced laboratory techniques, and data analysis. Experienced in academic and clinical research, with a focus on neurodegenerative diseases. Passionate about driving innovation through critical problem-solving and cutting-edge scientific approaches.

PROFESSIONAL EXPERIENCE

PhD Researcher

(October 2022 – September 2025)

Department of Neuroimmunology and Neuroinflammation

University of Verona, Italy

PhD Project: Characterizing new bioactive molecules for the treatment of neuroinflammatory and neurodegenerative diseases.

- Conducted multidisciplinary research project integrating immunology, cell & molecular biology, and immune-brain interactions; developing novel models and therapeutics solutions.
- Led cutting-edge immunological and cellular experiments, analyzed datasets, integrated findings with current literature, developed research proposals, secured funding, and presented results at scientific conferences.

Research Assistant

(January 2022 – July 2022)

Department of Pharmacology

University of Eastern Piemonte Orientale (UPO), Italy

- Managed animal models (Mice and Rats), drug research, data analysis, HPLC, & reagent preparation.

Research Intern

(May 2021 – July 2022)

Department of Public Health

University of Eastern Piemonte Orientale (UPO), Italy

- Conducted vaccine research, public health studies, systematic reviews, and quality assessments; performed data and statistical analysis; and drafted scientific manuscripts and evidence-based reports.
- Sample collection & processing, RNA/DNA extraction, protein analysis, antibody testing, & bacterial culturing.

Medical Officer / Medical Advisor

(Nov. 2018 – Dec. 2019)

SIBL Foundation Hospital, Dhaka, Bangladesh

- Conducted medical examinations, treated common illness, managed emergencies, participated in preclinical and clinical studies, ensuring alignment with current medical research, guidelines, and regulations.
- Collaborated with researchers, regulatory affairs, & product development teams to monitor and report on the safety & efficacy of drugs, treatments, & medical devices, overseeing pharmacovigilance and data analysis.

Teaching Assistant (Public Health)

(September 2017 – August 2018)

Monowara Sikder Medical College, Bangladesh

- Developed teaching materials, conducted research, performed disease surveillance, carried out diagnostics, and assisted in public health courses, supporting lectures and student engagement.
- Assisted with lab setup, reagent preparation, experiments, sample handling, data collection, & report writing.

Teaching Assistant (Microbiology & Immunology)

(July 2016 – August 2017)

Diabetic Association Medical College and Hospital, Bangladesh

- Set up lectures & lab activities, assisted in research, evaluated student work, conducted microbial & immunological experiments, maintained lab equipment, supported data collection, analysis, & interpretation.

Intern Doctor

(May 2015 – May 2016)

Diabetic Association Medical College & Hospital, Bangladesh

- Completed clinical rotations in Medicine, Surgery, and Obstetrics & Gynaecology; gained hands-on experience in patient care, diagnosis, and treatment planning; participated in educational activities.

EDUCATION

Ph.D. in Inflammation, Immunity and Cancer

University of Verona, Italy (October 2022 – Present)

(Research completed; defense expected early 2026)

Master of Science in Medical Biotechnology

University of Eastern Piedmont (UPO), Italy (September 2020 – July 2022)

<https://uniupo.it/en>

Bachelor of Medicine and Bachelor of Surgery (MBBS)

Diabetic Association Medical College, University of Dhaka, Bangladesh (Jan 2010 – Jan 2015) <http://www.damcf.edu.bd/>

SKILLS

Laboratory Techniques

- **Cell and Tissue Culture:** Aseptic cell culture, differentiation, viability assays (MTT, WST-1), spectrophotometry, nitrate analysis, ROS assays, flow cytometry.
- **Molecular Techniques:** ELISA, PCR, Western blot, Immunoassays (IF/IHC), Gel electrophoresis, RNA/DNA extraction, Protein analysis, scRNA-Seq and plasmid design.
- **Imaging:** Fluorescent, confocal, & electron microscopy; tissue imaging; MRI, PET, CT, X-ray & optical imaging.
- **Primary Cell Isolation:** Microglia, astrocytes, neurons (mouse); neutrophils (human buffy coat).
- **Animal (Mouse) Handling:** IP, IV, IM injections; blood, organ, bone collection; perfusion; behavioral tests.

Bioinformatics

- Skilled in Microsoft Office, Excel, GraphPad Prism, & BioRender; experienced in ZEISS, R, Canvas, & ImageJ.

Soft Skills

- Technical leadership, time management, coordination, and effective problem-solving.
- Skilled in documentation, communication, organization, and stakeholder collaboration.
- Experienced in compliance, assay development, and maintaining biomedical equipment.

LANGUAGES

- Bengali: **Native** | English: **Professional** | Italian: **Intermediate**

AWARDS & GRANTS

- Ph.D. Fellowship for the NBFC project under the PNRR (2022–2025).
- AINI Travel Grant – Italian Association of Neuroimmunology (May 2023).
- MSc Graduation Award – University of Eastern Piedmont (July 2022).
- EDISU merit-based Scholarship – Awarded during MSc studies (June 2021).

LICENSES & CERTIFICATIONS

- Flow Cytometry Course by Miltenyi Biotec 2024.
- Registered Medical Doctor, Bangladesh Medical & Dental Council (BM&DC), Reg. N.: A-77398.
- Certificate Course in Drug Regulatory Affairs (DRA)– Udemy (August 2022).
- Fluorescent Imaging – abcam (November 2022).

MEMBERSHIPS

- Italian Society of Neuroimmunology (AINI).
- Brainstorming Research Assembly for Young Neuroscientists (BraYn).
- Bangladesh Medical & Dental Council (BM&DC).

PUBLICATIONS

- **Majumder P, Pietronigro E, Della Bianca V, & Constantin G** (Manuscript in preparation). Characterization of new bioactive molecules for the treatment of neuroinflammatory and neurodegenerative diseases.

REFERENCES

- Available upon request.