

## Curriculum Vitae and Bibliography



**NAME :** **DR. NIVEDITA BHATTACHARYYA**

**Present Designation:** **Assistant Professor in Physiology**

**E-mail:** [nb.wbes@prtgc.ac.in](mailto:nb.wbes@prtgc.ac.in)

**Specialization:** **Microbiology and Immunology**

**Major Interest Area:** **Immunomodulation, anti cancer therapy and drug development, antimicrobial effect of herbal products**

### **Academic Credentials:**

- ◆ *Assistant Professor (August 2005-till date)*
- ◆ *Ph.D. (2002 - 2009): Indian association for the cultivation of Science under Jadavpur University.*
- ◆ *M.Sc. (1999 - 2001): Calcutta University, Kolkata, India*
- ◆ *B.Sc. (1994 – 1997): Calcutta University, Kolkata, India*

### **Teaching Experiences:**

- ◆ *Hooghly Mohsin College – 24.08.2005 – 31.08.2013*
- ◆ *Jhargram Raj College – 02.09.2013 – 06.01.2014*
- ◆ *P. R. Thakur Government College - 08.01.2024 – Till Date*

### **Courses Taken:**

- ◆ *Cell and molecular biology, Genetics*
- ◆ *Biochemistry and Biophysics*
- ◆ *System Physiology*
- ◆ *Signal transduction*
- ◆ *Nutrition and dietetics*

## **Professional Expertise and Research Experience**

- **Immunological techniques:** ELISA, Immunoblot, CTL assay, Immunohistochemistry. lymphocyte proliferation assay *in vitro* (tritiated thymidine), Different macrophage activity assessment like phagocytosis, production of ROIs and RNIs and assessment of their higher signaling pathways.
- **Macrophage and lymphocyte** isolation, culture and purification from peritoneal cavity and spleen.
- **Cell culture techniques.**
- **Molecular biological techniques:** mRNA expression (semiquantitative).
- **Animal Model Experiments.**
- **Immunization procedure:** Oral, intraperitoneal, subcutaneous, intravenous
- **Mouse breeding and line maintenance.**
- **Protein purification Methods.**
- **In Vivo tumor cell maintenance in the mouse.**
- **Tumor development by sarcoma-180 cell line**
- **Respiration studies by oxygraph**
- **Histology of different tissue of body**