

Dr. Neelam M. MISHRA

PERSONAL

Address: Department of Zoology
Sir P.T.Sarvajanik College of
Science

Cell : 9998481106

E-mail: nmm@ptscollege.ac.in

EDUCATION

- 2007-2010** **Ph.D:** Department of Zoology, Sir P. T. Sarvajanik College Science, Surat, India.
Thesis: "Immobilized Enzymes: Formation, Characterization, Properties and Possible Applications"
- 2004-2006** **M.Sc:** Department of Biosciences, V. N. S. G. University, India.
Majors: Animal Science (Cytogenetics)
- 2001-2004** **B.Sc:** Sir P. T. Science College, V. N. S. G. University, India.
Majors: Zoology

SCIENTIFIC SKILLS.

- Immobilization of bioactive molecules, enzymes and drugs on polymeric support.
- Cytogenetics (Lymphocyte Culture, Banding Techniques)

CAREER

June 2022- Present: Adhayapak Sahayak, Sir P.T.Sarvajanik college of Science, surat

July 2017-3 June 2022 : Assistant Professor, J. N. M. Patel Science College, Vesu Surat.,

July 2015-May 2017: Teaching Assistant (Contract), Department of Biosciences, V. N. S. G. University, Surat, India

July 2014-April 2015: Lecturer (Adhoc), Department of Biosciences, V. N. S. G. University, Surat, India

May 2008 - Mar 2011: Project Fellow Sponsored By **University Grants Commission (UGC), Govt. of India**, New Delhi, India.
Topic "Production, properties & applications of some enzymes immobilized onto polymeric support materials (through physical adsorption / chemical linkage using spacer molecules".

Jul 2007 - Nov 2007: Worked as an **Adhoc Lecturer**
Department of Zoology, Sir P. T. Sarvajanik College Science, Surat, India

M.SC. DISSERTATION GUIDED (3 COMPLETED)

1. Immobilization of urease in different biopolymer.
2. Production of ethanol from molasses using immobilized yeast cells.
3. Entrapment of amylase in sodium alginate by changing bead size.

ACHIEVEMENTS

2006 **First Rank in M. Sc-II (Animal Science)**

2005 **First Rank in M.Sc-I (Biosciences)**

List of Publications

- [1] Solubilization study of antihypertensive drug Irbesartan in EO-PO based polymeric nanomicelle and optimization of its release behaviour, Y. Kadam, A. Savl e, A. Nakarani , J. Parikh , **N. Mishra**, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **693** 134024 (2024)
- [2] Review :Overview of enzyme based biosensors and their applications, **N. Mishra**, Y. Kadamb, N. Malek, *Current Trends in Biotechnology and Pharmacy*, **12 (1)** 106-115 (2018)
- [3] Immobilization of urease in alginate beads for urea estimation, **Neelam Mishra**, Anita Bahadur, Accepted in *Research – An open-Access Journal dx.doi.org/10.13070/rs.en.2.1328*
- [4] Byssus thread: a novel support material for urease immobilization, **Neelam Mishra**, Kespi Pithawala, Anita Bahadur, *Applied Biochemistry and Biotechnology*, **165** 1568-1576 (2011)
- [5] Inhibition of urease immobilization in alginate beads by heavy metals, **Neelam Mishra**, Anita Bahadur, *Biochemistry : An Indian Journal*, **5(3)** 151-157 (2011)
- [6] Immobilization of Urease on Alginate, Paraffin and Lac, Kespi Pithawala, **Neelam Mishra**, Anita Bahadur, *Journal of Serbian Chemical Society*, **75 (2)** 175–183 (2010).
- [7] Toxicity of some Surfactants on Phosphatase Level of Fresh Water Fish Rohu *Labeo rohita* (**HAMILTON**), Ramila Mandal, Debmallya Mandal, **Neelam Mishra**, Anita Bahadur, *Journal of Environmental Biology*, **31(4)** 395-398 (2010).

Patent:

The Patent office, Government of India Certificate of Registration of Design in **“PORTABLE AQUAPONIC SYSTEM”**

BOOK CHAPTER:

-
- [1] **TITLE: NANOTECHNOLOGY IN CANCER THERAPY: TARGETED DRUG DELIVERY SYSTEMS. BOOK:** Exploring Nanomaterial Synthesis, Characterization and Applications. **PAGES:** 413-440 **PUBLISHER:** IGI GLOBAL.
 - [2] **TITLE: CHARACTERIZATION METHODS FOR NANOMATERIALS. BOOK:** Exploring Nanomaterial Synthesis, Characterization, and Applications. **PAGES:** 29-60 **PUBLISHER:** IGI GLOBAL

FACULTY DEVELOPMENT PROGRAMME: OUTCOME BASED EDUACTION (OBE) From 11/03/2024 to 15/03/2024 Jointly Organised By Education Department, Government of Gujarat Knowledge Consortium of Gujarat and Sir P.T.Sarvajanik College Of Science, Surat.

CONFERENCE/WORKSHOP/ SEMINARS.

COMMITTEE MEMBER:-

- [1] 2nd National conference on “ Biological Tools for Sustainable Environment” on 19th & 20th February 2016, Organized by the Department of Biosciences, V. N. S. G. University, Surat, India
- [2] National conference on “ Biological Tools for Sustainable Environment” on 11th October 2014, Organized by the Department of Biosciences, V. N. S. G. University, Surat, India

PAPER PRESENTED:-

- [1] 2nd National conference on “ Biological Tools for Sustainable Environment” on 19th & 20th February 2016, Organized by the Department of Biosciences, V. N. S. G. University, Surat, India
- [2] National Seminar on “New Frontiers in Life Sciences” on 19th December 2009 Organized by Department of Biological and Environmental Sciences, N. V. Patel College of pure and Applied Sciences, Vallabh Vidyanagar, Gujarat, India.
- [3] “14th National conference on Surfactant, Emulsions and Biocolloids” 28-30, July 2009 organized by

Department of Chemistry, University of Kashmir & Indian Society for Surface Science and Technology (ISSST).

- [4] “International conference on POLYCHAR-19 World Forum on Advanced Materials” 20-24th March 2011 organized by Tribhuvan University Kirtipur, Kathmandu, Nepal.

ATTENDED:-

- [5] Symposium on Contemporary Trends in Cancer Research on 18 March 2017, Organized by the Department of Biosciences, V. N. S. G. University, Surat, India
- [6] Short Term Training Programme (STTP) on Micro & Macro- Chemistry Meets Technological Development (M²CMTD-2016) from 6th -10th October 2016, Organized by Applied Chemistry Department, S.V.National Instituted of Technology, Surat, India.
- [7] One day Seminar on 4th March 2015, on Environmental Protection for Sustainable Development, Organized by Bhagwan Mahavir College of Science Technology and Bhagwan Mahavir College of M.Sc. Biotechnology, Surat, India.
- [8] One day Seminar on 3th March 2015, on “Hands on Training of Sophisticated Instruments” Organized by the Department of Biosciences, V. N. S. G. University, Surat, India
- [9] Workshop on Biostatistics using SPSS on 31st January 2010, Organized by the Department of Research Methodology and Interdisciplinary Studies in Social Sciences, V. N. S. G. University, Surat, India.
- [10] Seminar on “Recent Trends on Nanomaterials and Their Applications” on 14th December 2009, Organized by Chemistry Department, V. N. S. G. University, Surat, India.