

## Madhumita Panda, Ph.D.

Assistant Professor | Dept. of Medical Biotechnology

School of Allied and Healthcare Sciences, Malla Reddy University,

Hyderabad – 500100, Mobile /what's app: 8978723523

e-mail: [drmadhumita.panda@mallareddyuniversity.ac.in](mailto:drmadhumita.panda@mallareddyuniversity.ac.in)

ORCID ID: <https://orcid.org/0000-0003-3515-6278>

Scopus Author ID: 55479764500

Research Interest

Immunology, Infectious Disease Biology, Ayurveda

### Research Summary & Highlights

Dr. Madhumita Panda is an immunologist whose research integrates immune regulation in infectious and metabolic diseases with emerging insights from Ayurveda and personalized health with strong expertise in B cell biology, regulatory T cells, and host-pathogen interactions. Previously, her DST-funded postdoctoral and PhD research elucidated immune mechanisms in mycobacterial infections, malaria, and filariasis, including the role of microparticles and bacterial products in disease severity. Alongside research, she is deeply committed to teaching and mentoring, drawing on her extensive experience in immunology, biotechnology, and translational biomedical science.

#### Education

2005-2012 Ph.D. in Biotechnology, **Institute of Life Sciences, Bhubaneswar, Odisha, India**

**Thesis:** “Immunoregulation in Human and Experimental Filariasis and Malaria”.

2002-2004 M.Sc. in **Biotechnology**, Utkal University, Odisha, India

1998-2001 B.Sc. in **Botany, Zoology, Chemistry**, Berhampur University, Odisha, India

**Experience** (Academic – 4.5 Yrs, Research-2Yrs, Total – 6.5 Years)

**01.06.2024-PRESENT** Assistant Professor, School of Allied Healthcare Sciences, Malla Reddy University, Hyderabad

**30.08.2018-31.12.2021** Assistant Professor part time, Department of Genetics & Biotechnology, Osmania University,

Hyderabad, India

**23.05.2016-22.05.2018** DST-National Post Doctorate Fellow, Dept. of Biochemistry, School of Life Sciences,

Hyderabad Central University, Hyderabad.

#### Projects executed:

23.05.2016-22.05.2018 **DST-NPDF** on the project title” **A study on the role of microparticles generated during pathogenic and non-pathogenic mycobacterial infections in vitro.** in Department of Biochemistry, School of Life Sciences, Hyderabad Central University, Hyderabad.

#### Selected Publications (Papers:6, Citations: 56, h-index:2, i-10 index:2)

##### 1. Pubertal Timing as a Determinant of Lifelong Bone Health in Females: A Longitudinal Evidence.

Saswati Mishra, Meera Indracanti, Madhumita Panda, Ellojita Rout, Chandrakala Gunturu, Pavan C. Akkiraju, *Journal of carcinogenesis*, 2025, 24.5s.106-117. (Impact factor 2.92)

##### 2. Salivary Biomarkers of Psychological Stress in Women: A Systematic Review with Focus on Indian and South Asian Populations.

Meera Indracanti, S. Hari Priya, Madhumita Panda, Saswati Mishra, Prem ku Essgir, Tejovathi Bandike, , *Journal of carcinogenesis*, 2025, 24: 4s, 819-826. (Impact factor 2.92)

##### 3. Systems-Level Insights into Enzymatic Networks and Regulatory Mechanisms in Cancer Immunotherapy Resistance

Meera Indracanti, Muni Kumar Dokka, Madhumita Panda, Padmaja Musunuri, Nagendra Babu Gundamraju. *South Eastern European Journal of Public Health*, ISSN: 2025, 2197- 5248. e49420 (Impact factor 1.34)

##### 4. Differential differentiation of B cell lymphopoiesis in lethal and non-lethal murine malaria models

Madhumita Panda, Bidyut Das, Farkad Bantun, Aditya K. Panda, Mohd Wahid, Raju K. Mandal, Naeem F. Qusty, Shafiu Haque & Balachandran Ravindran, *Biotechnology and Genetic Engineering Reviews*, 2023, <https://doi.org/10.1080/02648725.2023.2205200> (Impact factor 4.2)

##### 5. Decreased prevalence of sepsis but not mild or severe *P. falciparum* malaria is associated with pre-existing filarial infection.

Madhumita Panda, Prakash K Sahoo, Alok Das Mohapatra, Soumya kanti Dutta, Pravat K Thatoi, Rina Tripathy, Bidyut K Das, Ashok K Satpathy and Balchandran Ravindran *Parasites & Vectors* 2013, 6:203, Published: 10 July 2013 (Impact factor 3.25)

##### 6. Complement receptor 1 variants confer protection from severe malaria in Odisha, India.

Aditya K. Panda, Madhumita Panda, Rina Tripathy, Sarit S. Pattanaik, Balachandran Ravindran, Bidyut K. Das *PLoS One* 2012, 7, e49420 (Impact factor 4.09)

#### Scientific Contribution

Thesis supervision (M.Sc.):

07

Workshop/Training/Advance course:

05

Conference/Symposium:

07

#### Awards/Fellowships

**2016-DST-NPDF**

**2013 DST-** International Travel grant

**2009 ICMR-SRF**

**2004 CSIR-UGC NET**