



Ashok Kumar Sarangi

HoD, Graduate Programme

Area: Medical Microbiology, Biochemistry, Immunology

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Year of Joining: September 2004

Education

Ph.D.	Medical Microbiology	Submitted -2025
MBA	HR & Marketing	Utkal University- 2012
M.Phil.	Medical Microbiology	Utkal University- 2009
M.Sc	Biotechnology / Medical Microbiology	Utkal University- 2004

Short Term Training

- 6months certificate programme on Computer Assisted Drug Design (CADD) ORGANIZED BY Birla Institute of Scientific Research & University of Rajasthan under the aegis of design Innovation Centre, Department of Higher Education, MoE, GOI, New Delhi, September 27, 2024 to March 21, 2025.
- UGC Sponsored FDP on "Analytical and Bioanalytical Techniques for Pharmaceuticals" organized by the Institute of Chemical Technology, Mumbai under the scheme of DST STUTI, 31st October to 6th November 2022.
- Quality Improvement Programme: Short Term Course on "Engineering Aspects of Enzyme and Microbial Processes", organized by Biotechnology department, IIT Guwahati, 4-8 June 2007.
- National Training Programme on Recent Advances in Expression Genomics Techniques (20 February- 10 March 2007) organized by National Dairy Research Institute, Karnal
- Attended International Workshop on Biomedical Magnetic Resonance Imaging organized by All India Institute for Medical Sciences New Delhi January 12-15, 2005

FDP/MOOCs

- Completed NPTEL Online Certification- FDP Titled "Entrepreneurship Essentials".
- Completed NPTEL Online Certification- FDP Titled "Current Regulatory Requirements for Conducting Clinical Trials in India for Investigational New Drugs/New Drug (Version 3.0)".

🌐 Completed NPTEL Online Certification- FDP Titled “Foundation Certificate in Palliative Care”.

🌐 Completed NPTEL Online Certification- FDP Titled “One Health”.

Academic Experience

🌐 **Research fellow** with Division of Microbiology, Regional Medical Research Centre, Bhubaneswar (ICMR) (September 2003-September 2004) & (July 2008-February 2009).



🌐 **Assistant Professor** with Department of Biotechnology, TACT, Bhubaneswar, Odisha (since September 2004)

🌐 Awarded Certificate of Excellence in Reviewing Asian Journal of Research in Infectious Diseases and in recognition of an outstanding contribution to the quality of the journal

PATENT

🌐 AN ENHANCED METHOD OF IMMOBILIZATION OF MICROBIAL ALKALINE PROTEASE FOR INDUSTRIAL APPLICATIONS. APPLICATION. NO.: 202431038779 (IPINDIA.GOV.IN). 2024, PUBLICATION DATE (U/S 11A)-31/05/2024

🌐 A METHOD FOR PREPARATION AND COMPOSITION OF MILLET STARCH-BASED BIOPLASTIC, APPLICATION NO 202431048156 (IPINDIA.GOV.IN). 2024, PUBLICATION DATE (U/S 11A)-05/07/2024.

🌐 INTEGRATED APPROACH FOR DRUG DISCOVERY AND NANOPARTICLE DEVELOPMENT FOR ENHANCED DRUG DELIVERY. APPLICATION. NO.: 202431052382 (IPINDIA.GOV.IN). 2024, PUBLICATION DATE (U/S 11A)-19/07/2024.

🌐 A MICROORGANISM FORMULATION AND METHOD FOR EFFICIENT PLASTIC WASTE DEGRADATION AND SUSTAINABLE RECYCLING. APPLICATION. NO.: 202431091332 A (IPINDIA.GOV.IN). 2024, PUBLICATION DATE (U/S 11A)-29/11/2024.

🌐 A METHOD FOR GENOME EDITING USING CRISPR-CAS SYSTEMS TO ENHANCE STRESS RESILIENCE AND CROP YIELD. APPLICATION. NO.: 202531013999 (IPINDIA.GOV.IN). 2025. PUBLICATION DATE -07/03/2025

🌐 TOUCH INTERFACED HBA1C ANALYZER (IPINDIA.GOV.IN), APPLICATION NO-462239-001, CBR DATE-14/06/2025, DESIGN APPLICATION GRANTED.

🌐 TABLE-TOP ULTRASONIC SANITIZER (IPINDIA.GOV.IN), APPLICATION NO-464475-001, DESIGN APPLICATION GRANTED.

🌐 PORTABLE CRISPR-BASED FOOD PATHOGEN DETECTOR, (IPINDIA.GOV.IN), APPLICATION NO-465606-001, DESIGN APPLICATION GRANTED.

Selected Research Publications

- ✿ Kumari Anamika , Manoranjan Behera , Anshuman Sarangi , **Ashok Kumar Sarangi** , Alok Ranjan Nayak. **Molecular Docking-Guided Investigation of Antibacterial Activity of PVP-Assisted Surface-Modified Fullerene C60 Nano formulations.** *Bio interface Research in Applied Chemistry*. Volume 16, Issue 2, 2026, 54
- ✿ A Sahoo, PK Bal, P Singh, SS Behera, AK Sarangi, AR Nayak, **A Sarangi**. Comparative study between pre- and post- operative clinical and electrophysiological parameters in determining the recovery of carpal tunnel syndrome *J Res Med Sci*. 2023 Jan;11(1):230-237.
- ✿ Bal PK, Behera SS, Sahoo TK, Nayak BB, Sarangi AK Sarangi A. **Wide excision and reconstruction with free vascularized fibula for aggressive giant cell tumor of distal 3rd tibia.** *International Surgery Journal*. 2022 Sep;9(9):1622-1626.
- ✿ Jena C, Mohapatra M, Panda S, Sarangi AK, Babu KK, **Sarangi A**. **Demography and clinical profile of patients with chronic pancreatitis in a tertiary referral hospital in eastern India.** *International Journal of Research in Medical Sciences*. 2022 Jun;10(6):1265-1270.
- ✿ Dr. Anshuman Sarangi, Dr. Himanshu Sekhar Kand, Dr. Minati Mohapatra, Dr. Srikant Panda, **Mr. Ashok Kumar Sarangi**, Dr. K. Kiran Babu, "Evaluation and Correlation of Clinicopathological and Radiological Findings of Axillary Node Positivity in Clinically Node Negative Carcinoma Breast.". *International Journal of Advances in Medicine*. 2022 Jun;9(6):729-736.
- ✿ Dr. Sanat Kumar Patra, Dr. Minati Mohapatra, Dr. Srikant Panda, **Mr. Ashok Kumar Sarangi**, Dr. K. Kiran Babu, "A Clinical Study of Management of Wounds Using Vacuum Assisted Dressings." *International Journal of Advances in Medicine* .2022 Jun;9(6):661-665.
- ✿ Dr. Mausam Ray, Dr. Minati Mohapatra, Dr. Srikant Panda, **Mr. Ashok Kumar Sarangi**, Dr. K Kiran Babu, Dr. Anshuman Sarangi, "Study of Etiopathogenesis and Various Surgical Techniques Used in Incisional Hernia." *International Surgery Journal*. 2022 Jun;9(6):1179-1187 .
- ✿ Dr. Minati Mohapatra, Dr. Srikant Panda, **Mr. Ashok Kumar Sarangi**, Dr. K. Kiran Babu, Dr. Anshuman Sarangi, "Demography and clinical profile of patients with chronic pancreatitis in a tertiary referral hospital in eastern India." *International Journal of Research in Medical Sciences*. 2022 Jun;10(6):1265-1270.
- ✿ Mohapatra PC, Sarangi A, **Sarangi AK**, Dalai RK, Sahoo D. **Sequential Serum Cytokine Levels of TNF-Alpha, IL-4 and IL-12 are Associated with Prognosis in Plasmodium falciparum Malaria.** *Indian Journal of Clinical Biochemistry*. 2014 Jul; 29(3): 321–326.
- ✿ Mohapatra PC, Sarangi A, Dalai RK, **Sarangi AK**. **Serum IL-4, IL-12 and TNF-alpha in malaria: a comparative study associating cytokine responses with severity of disease from the Coastal Districts of Odisha.** *Journal of Parasitic Diseases*. [Springer Journal]. 2014 Jun; 38(2): 143–147.
- ✿ Sarangi A, Mohapatra PC, Dalai RK, **Sarangi AK** (2013). **Serum IL-4, IL-12 and TNF-alpha in malaria: a comparative study associating cytokine responses with severity of disease from the Coastal Districts of Odisha.** *Journal of Parasitic Diseases*, DOI 10.1007/s12639-013-0237-1. [Springer].
- ✿ Sarangi A, Mohapatra PC, Dalai RK, **Sarangi AK** (2013): **Sequential Serum cytokine levels of TNF-alpha, IL-4 and IL-12 are associated with prognosis in P. falciparum malaria.** *Indian Journal of Clinical Biochemistry* [Springer].

-  Sarangi A, Jena S, **Sarangi AK**, Swain B (2013): **Anti-Diabetic Effects of Withania somnifera root And Leaf Extracts on Streptozotocin Induced Diabetic Rats**, *Journal of Cell and Tissue Research*, 13(1), 3597-3601.
-  Khuntia, HK, Samal, SK, Nayak, SR, **Sarangi, AK**, Mohanty, P, Kar, SK, Pal, BB (2008). **Incidence, serotype, antibiogram and toxigenicity of Vibrio cholerae during 2000, six month after the super cyclone, 1999 in Orissa, India.** *Journal of Pure and Applied Microbiology*, 2 (1), 187-204.
-  Khuntia HK, Samal SK, **Sarangi AK**, Nayak SR, Kar SK, Pal BB (2008). **Ecological interaction of toxigenic Vibrio cholerae in aquatic environment.** *Current World Environment*, Vol-3, No-1, 109-113.
-  Samal S.K, Khuntia H.K, Nanda P.K, Satapathy C.S, Nayak S.R, **Sarangi A.K**, Sahoo N, Pattnaik, S.K, Chhotray, G.P, Pal, BB (2008). **Incidence of bacterial enteropathogens among hospitalized diarrhoea patients from Orissa, India, Japanese Journal of infectious diseases.** Vol. 61 No. 5, P. 333-426.
-  Khuntia HK, Samal SK, **Sarangi AK**, Nayak SR, Kar SK, Pal BB (2008). **Spectrum of multiple antibiotic resistance among clinical strains of Vibrio cholerae oO1 & O139 isolated during 1999-2003 in Orissa, India, Biomedical & Pharmacology Journal, Volume-1, No-1.**

Abstract

-  Pal, BB, Khuntia, HK, Samal, SK, Nayak, SR, **Sarangi, AK**, Chhotray, GP, Kar, SK. **Epidemiology of HIV/AIDS in Orissa.** Paper Presented in **International conference on opportunistic pathogens in AIDS, AIIMS, New Delhi, 2008, Page No: 130.**
-  Samal SK, Khuntia HK, Pattnaik SK, Nanda PK, Nayak SR, **Sarangi AK**, Pal, BB. **Isolation, characterization and prevalence of Aeromonas species among the diarrhoeal patients of Orissa.** *Micro vision*, Page No 36-37 , 3rd Annual Convention, PG Department of Microbiology, CPGS OUAT, Orissa.2007
-  Pal BB, Khuntia HK, Samal SK, **Sarangi AK**, Nayak SR, Mohanty P, Das R, Sahoo D, Sahoo R, Panigrahi S, Kar SK. **Indian Association for medical microbiologist, (Orissa chapter), Diarrhoeal disorders**

Other Academic Experience

-  Question setter for B. Sc & M.Sc Biotechnology programme for different Universities.
-  Invited as an expert by Govt. of Assam to prepare syllabus of B. Sc Biotechnology.
-  Guided 18 students for M.Sc dissertation

MOTIVATIONAL NOTE

“Not everything that weighs you down is yours to carry.”