

DR. SUSHIL KUMAR PATHAK, M.Sc., Ph.D.

Associate Professor

Department of Biotechnology, Berhampur University

Bhanja Bihar, Berhampur-760007, Odisha.

Contact No. +91-9821562409, E-mail: skpathak.ku@gmail.com



ACADEMIC DEGREES:

- Ph.D. from Jadavpur University, Kolkata, 2009
- M.Sc. (Botany) from Banaras Hindu University, Varanasi, 2002

TEACHING AND RESEARCH EXPERIENCE: >12 years

- **Associate Professor**, Dept. of Biotechnology, Berhampur University, Berhampur, Odisha (**October 2021 to Present**)
- **Associate Professor**, Dept. of Bioscience & Bioinformatics, Khallikote University, Berhampur, Odisha (**May 2018 to September 2021**)
- **Researcher (Independent Group Leader)**, Dept. of Molecular Biosciences, the Wenner-Gren Institute, Stockholm University, Stockholm, Sweden (**January 2013 to December 2017**)
- **Post-doctoral Researcher**, Dept. of Genetics, Molecular Biology and Toxicology, Stockholm University, Stockholm, Sweden (**August 2011 to December 2012**)
- **Post-doctoral Researcher**, Centre for Infectious Medicine, Karolinska Institutet, Stockholm, Sweden (**August 2009 to August 2011**)

ACADEMIC HONORS AND AWARDS:

- **DBT-Ramalingaswami Re-Entry Fellowship 2017-18**
- **Sir Nilratan Sirkar Prize, Bose Institute Kolkata, 2005**
- **Qualified for CSIR-UGC Junior Research Fellowship 2002**
- **Qualified for ICMR Junior Research Fellowship 2002**
- **Qualified GATE in Life Sciences, 2002**

HIGHLIGHTS OF PROFESSIONAL EXPERIENCE:

❖ SUPERVISORY TEACHING

- Ph.D. students: Completed - 02 (Main supervisor - 01, Co-supervisor - 01)
Continuing - 03 (Main supervisor - 01, Co-supervisor - 02)
- M.Sc. Project students: 10

❖ RESEARCH INTERESTS:

- Host-pathogen interactions in Mycobacterial and *Helicobacter pylori* infections.
- Exploring the effect of traditional medicinal plants on pathogenic bacteria.

❖ RESEARCH GRANTS

- Research Grants Completed/Ongoing/Sanctioned: 06 (as Principal Investigator)

❖ RESEARCH PUBLICATIONS

(Total citations: 1663, h-index: 15, i10-index: 16)

- In Peer-reviewed, Indexed Journals with Impact Factor: 21

RECENT PUBLICATIONS:

1. Amylases: Biofilm Inducer or Biofilm Inhibitor? Lahiri D, Nag M, Banerjee R, Mukherjee D, Garai S, Sarkar T, Dey A, Sheikh HI, **Pathak SK**, Edinur HA, Pati S, Ray RR. Front Cell Infect Microbiol. 2021 Apr 27;11:660048. doi: 10.3389/fcimb.2021.660048. (IF- 5.29)

2. Bacterial Biopolymer: Its Role in Pathogenesis to Effective Biomaterials. Ghosh S, Lahiri D, Nag M, Dey A, Sarkar T, **Pathak SK**, Atan Edinur H, Pati S, Ray RR. *Polymers (Basel)*. 2021 Apr 12;13(8):1242. doi: 10.3390/polym13081242. **(IF-4.329)**
3. *Lactobacillus gasseri* Suppresses the Production of Proinflammatory Cytokines in *Helicobacter pylori*-Infected Macrophages by Inhibiting the Expression of ADAM17. Gebremariam HG, Qazi KR, Somiah T, **Pathak SK**, Sjölander H, Sverre Ekström E, Jonsson AB. *ISSN- 1664-3224 Front Immunol*. 2019 Oct 4;10:2326. doi: 10.3389/fimmu.2019.02326. **(IF- 6.42)**
4. Induction of TNF, CXCL8 and IL-1 β in macrophages by *Helicobacter pylori* secreted protein HP1173 occurs via MAP-kinases, NF- κ B and AP-1 signaling pathways. Tavares R, **Pathak SK**. *Microbial Pathogenesis*, ISSN: 0882-4010, (2018) Dec; 125:295-305. DOI: 10.1016/j.micpath.2018.09.037. **(IF- 3.73)**
5. *Helicobacter pylori* Secreted Protein HP1286 Triggers Apoptosis in Macrophages via TNF-Independent and ERK MAPK-Dependent Pathways. Tavares R, **Pathak SK**. *Front Cell Infect Microbiol*. ISSN-2235-2988, (2017) Feb 28;7:58. DOI: 10.3389/fcimb.2017.00058. **(IF- 5.29)**