

Professional Profile

SHEELA KUMARI SAHOO

Ph.D. SCHOLAR (DST-INSPIRE SENIOR RESEARCH FELLOW),

DEPARTMENT OF BIOTECHNOLOGY

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Personal Profile

Date of Birth: 11th January 1993

Nationality: Indian

Language known- English, Hindi, and Odiya

Current Research Interest: Microbial Technology, Bioprocess Development, Molecular Biology and Protein purification.

QUALIFICATION DETAILS

COURSE	BOARD/ UNIVERSITY	INSTITUTION	PLACE	YEAR OF COMPLETION
MATRICULATION	C.B.S..E	KENDRIYA VIDYALAYA NO.2	HARYANA	2008
H.S.C (+2 SCIENCE)	C.B.S..E	KENDRIYA VIDYALAYA BAMBOLIM CAMP	GOA	2010
BACHELOR IN PHARMACY	B.P.U.T	HI-TECH COLLEGE OF PHARMACY	BHUBANESWAR	2014
MASTER IN PHARMACY	UTKAL UNIVERSITY	UTKAL UNIVERSITY	BHUBANESWAR	2016
Ph. D IN BIOTECHNOLOGY (CONTINUED)	UTKAL UNIVERSITY	UTKAL UNIVERSITY	BHUBANESWAR	Cont..

Summary:

I am a hard-working and dedicated researcher with a strong interest in the field of microbial biology. My academic journey includes a Bachelor's degree in Pharmacy from HI-Tech College of Pharmacy and a Master's degree in Pharmacy (Biotechnology) from Utkal University, Bhubaneswar, Odisha, India.

Currently pursuing my doctoral research at the Department of Biotechnology, Utkal University, I am working on microbial therapeutic enzymes to combat thrombolytic disorders. My research involves the isolation and bioprocess development of fibrinolytic enzymes isolated from microbial sources. Further, the gene encoding for the fibrinolytic enzyme is cloned and purified, followed by its characterization study. Funding for my research is provided by the Department of Science and Technology (DST), Government of India.

RESEARCH EXPERIENCE

Ph.D. Scholar at DEPARTMENT of Biotechnology, UTKAL University, Bhubaneswar, Odisha, India

Thesis title: Bioprocess Development, Molecular Characterization and Purification of a Thermostable Protease with Fibrinolytic Potential.

Supervisor- Dr. Sanatan Majhi (Asst. Professor, Department of Biotechnology, Utkal University)

Summer Internship Training

Project entitled- “Alkali Hydrolysis of Lignocellulosic Biomass & Cellulose Production”.

Time-period- May-07-2015 to July- 05-2015

Under the guidance of ***Prof. V.Venkatu Dasu, Professor and Head, Department of Biosciences and Bioengineering Indian Institute of Technology (IIT) Guwahati, Guwahati 781039, Assam, India.***

M.Pharm. dissertation thesis

Project entitled-“Screening, Improved Production Characterization Studies of Acid Protease From *Bacillus Korlensis Strain* and Impact Of Heavy Metal Induced Stress On Growth Response And Amelioration Of Antioxidant Defence Mechanism ”.

Time period- July 2015-August 2016

Under the joint guidance of ***Dr. Sabuj Sahoo, Ph.D. Reader & Head, P.G. Dept. of Biotechnology & Dr. Sagar Kumar Mishra, Lecturer & Coordinator, Utkal University, Vani Vihar, Bhubaneswar, Odisha, India***

ACHIEVEMENTS

1. Recipient of DST-INSPIRE fellowship from Department of Science and Technology, Govt. of India for pursuing Ph.D. in Biotechnology at Utkal University, Bhubaneswar, India.
 - ❖ DST-INSPIRE JRF period (2019-2021)
 - ❖ DST-INSPIRE SRF period (2021- 2023)
2. 1st Rank holder in M.Pharm. University Department of Pharmaceutical Sciences Utkal University, Vani Vihar, Bhubaneswar, Odisha, India (2016-2018 batch).

CONFERENCES/ SEMINARS :

- Participated in Odisha Pharmaceutical Conferences 2012 on 22nd April 2012 Organized by Institute of Pharmacy & Technology, Salipur.
- Participated in Conference on “Pharmaceutical Education And Industrialization In Odisha: Scope And Challenges” on 13th September 2015 organized by APTI-Odisha State Branch.
- Participated in National seminar on “Impact of food and drug adulteration on health care systems” on 15th November 2015 organized by UDPS, Utkal University.
- Participated in UGC sponsored skill development workshop on “Determination of Protein Content in Biological Samples: on 19th -20th November, 2015
- Presented oral presentation and receive 2nd prize in APTICON Odisha 2017 A convention on Pharmaceutical Education & Research in Odisha: An Introspection on 19th March 2017.
- Participated in UGC Sponsored Skill Development Workshop on “Basic Methods In Proteomics” on 28th -29th March 2017
- Participated in ICMR sponsored National Seminar on “Quality Control and Standardization of Ethnopharmaceuticals in the Present Era” held on 4th -5th March 2018.
- Participated in WB-OHEPEE sponsored National Seminar cum Workshop on “Proteomics in Public Health” on 15th & 16th March 2019.
- Presented poster on “Screening, Isolation and Identification of Fibrinolytic Enzyme producing *Bacillus* Sp. Isolated from Sewerage Water of BMC” in Indian Science Congress Association Bhubaneswar Chapter National Seminar on “Science & Technology: Rural Development” held on 13th -14th December 2019.
- Presented poster on “Screening and partial purification of thermostable fibrinolytic enzyme from *Bacillus* sp.” At the International Conference on Bioprocess For Sustainable Environment And Energy (ICBSEE) Held on 5-7th March 2020.
- Presented poster on “Screening, Bioprocess Development and Partial Purification of Thermostable Fibrinolytic Enzyme from *Bacillus* Sp.” at National Seminar on Overcoming the Challenges: Role of Science & Technology on the occasion of 22nd Odisha Bigyan ‘O’ Paribesh Congress held on 20th -21st November 2021.
- Presented poster on “Optimization of process parameters, partial purification, and characterization of extracellular fibrinolytic protease from *Bacillus subtilis*” at International Conference on Recent Trends in Biotechnology 2022 held on 22nd -23rd June 2022.

- Presented poster on “Bioprocess Optimization, Partial Purification and Characterization of Extracellular protease with Fibrinolytic Potential.” Odisha Research Conclave 2022 held on 14-16th November 2022.
- Presented poster on “Screening, Isolation, and Molecular Cloning of Gene Encoding Fibrinolytic Enzyme Produced by *Bacillus subtilis* and *Bacillus thuringiensis*.” Odisha Research Conclave 2023 held on 14-16th November 2023

Membership :

Life membership in Indian Pharmacy Graduates Association

Publications :

1. Screening, Partial Purification and Stability Studies of Cyclodextrin glycosyl Transferases from *Bacillus amyloliquefaciens* Strain L4-6,(2017) Devika Das, **Sheela Kumari Sahoo**, Luna Samanta and Sabuj Sahoo, JAM 3(5-6), pp 252 – 262.
2. The cost-effective stirred tank reactor for cellulase production from alkaline-pretreated agriculture waste biomass. In *Utilization and Management of Bioresources: Proceedings of 6th IconSWM 2016* (pp. 25-35). Springer Singapore. Deshavath, N.N., **Sahoo, S.K.**, Panda, M.M., Mahanta, S., Goutham, D.S.N., Goud, V.V., Dasu, V.V. and Jetty, A., 2018.
3. Exploitation of Fibrinolytic Enzymes in Combating Blood Clotting Disorders – Recent Advances and Strategies: A Comprehensive Review. 10.1007/978-981-15-2195-9_25. **Sahoo, Sheela & Sahoo, Sabuj.** (2020).