



Ms. Kriti Ghatani

Assistant Professor, Department of Microbiology

Academic Qualifications: PhD pursuing since 2013
Qualified National Eligibility Test (Twice in 2014)
Qualified UGC-State Level Eligibility Test (2013)
M. Phil (Microbiology)
M. Sc (Microbiology)
B. Sc (Microbiology Honours)

Contact Address: Assistant Professor
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Research Interest:

Food and dairy microbiology (Probiotics, Lactic acid Bacteria and its industrial applications, Bacteriocin), industrial Microbiology (Fermentation and Preservation), Environmental microbiology and microbial diversity (Extreme environments) and Soil and Agricultural Microbiology.

Fellowships:

1. Rajiv Gandhi National Fellowship as Junior Research Fellow (JRF) 2010-2012, UGC.
2. Rajiv Gandhi National Fellowship as Senior Research Fellow (SRF) 2013-2015, UGC.

Award:

1. **Young Scientist Award** in an International Conference on **Nutraceuticals and Functional Foods-The Challenges and Opportunities**, organized by Anand Agricultural University, Anand and Indian Society of Agricultural Biochemists Kanpur on **6th – 8th December, 2016** at **Anand Agricultural University**.
2. **Bhagwan Buddha Fellowship National Award-2016** by Bharatiya Dalit Sahitya Akademi, New Delhi, in 32nd National Conference of Dalit Writers in recognition of the commendable Meritorious Research, Literary, Social and Cultural Services for the upliftment of people of Country on Dec **11-12, 2016**.
3. **Conferred Best Poster Award** in an **International Conference** on “Ethnic Fermented Foods and Beverages: Microbiology and Health Benefits” on **20-21 November, 2015** Organised by Department of Microbiology, Sikkim University, Gangtok, Sikkim, India In Association with **SASNET-Fermented Foods, for poster** titled “**Bile salt hydrolase activity of lactic acid bacteria isolated from fermented yak milk products of Sikkim**” at Gangtok.
4. **Best Oral Presenter Award** in an **International Conference** on “**Agriculture, Food Sciences and Environmental Technology for Sustainable Global Development**” (**AFSET**) on **28-29th Oct 2012** that was organized by **Krishi Sanskriti** at **Jawaharlal Nehru University (J.N.U), New Delhi**.
5. **Awarded Gold medal** and certificate of Merit in B. Sc Microbiology Honours (First year) in 2005 in St. Josephs College, Darjeeling through the Governor Shri. Gopal Krishna Gandhi.

Conference/Seminar/Organisation:**Seminar**

1. Participated in the Third Science Conclave: National Seminar, A Congregation of Nobel Laureates at Indian Institute of Information Technology, Allahabad, 8th – 14th Dec 2010.
2. Participation in National Seminar on Micro and Macro resources in Biomolecular Technology organized by Dept. of Biotechnology and Microbiology, University of North Bengal on Feb 25-26, 2013.

3. Participated in National Seminar on Applied Microbiology: Microbial World 2014 by **presenting poster** organized by Dept. of Microbiology, University of North Bengal on March 14, 2014.
4. Participated in as an **Oral presenter** in UGC sponsored National Seminar on Global climate change and its impact on Floral, Faunal and Microbial biodiversity, organised by Dept. of Botany, St. Joseph's College Darjeeling in collaboration with Teesta Torsa Agro Care Welfare Society, Kalimpong held in June 26 to 28, 2015. The title of the presentation was "Bio- cultural and Microbial Diversity of Fermented Milk products of Yak in Sikkim Himalayas".
5. **Participated and presented Paper Orally** in 1st Regional Science and Technology Congress, Bardhaman Division, jointly organized by Department of Science and Technology, Govt. of West Bengal and Bankura Christian College, Bankura on 7th – 8th November, 2016 at Bankura Christian College.
6. Participated and delivered **Oral presentation** on the paper entitled "**Traditional food culture of the ethnic community in Sikkim Himalayas- A potential to economic development**" in a National Seminar on National Integrity and Its Crisis: The Role and Responsibilities of NSS sponsored by University Grants Commission on 9th & 10th March 2017.
7. Participated and delivered **Oral presentation** on the paper entitled "**Bile salt hydrolase activity of indigenous *Enterococcus* strains**" in a National Seminar on Frontiers in Cell biology and Microbiology" organized by Dept. of Microbiology, Raiganj University, March 31st 2017.

Conferences

1. Participation in National Conference on Tea Culture and Science- jointly organized by Department of Plantation Management and studies, Sikkim University and Tea Board on April 9th, 2013.
2. Participated an International Conference as **Oral Presenter** on "Agriculture, Food Sciences and Environmental Technology for Sustainable Global Development" (AFSET) on 28-29th Oct 2012, organized by Krishi Sanskriti at JNU, New Delhi.
3. Participation in Frontier Lectures in Biology under " INSA 100 Lectures" organized by Dept. of Botany, Sikkim University on 15th November, 2013.
4. Participated in International Conference as a **Oral Presenter** on "International 7th Asian Conference on Lactic Acid Bacteria" (ACLAB) on 6th to 8th September 2013 titled "*In Vitro* Characterization on cholesterol Lowering and Probiotic Property of Lactic Acid Bacteria isolated from a fermented Yak Milk Product- Hard Chhurpi" at New Delhi.

5. Participated as a **poster presenter** in International Conference on “Ethnic Fermented Foods and Beverages: Microbiology and Health Benefits” on 20-21 November, 2015 Organised by Department of Microbiology, Sikkim University, Gangtok, Sikkim, India In Association with SASNET-Fermented Foods, titled “**Bile salt hydrolase activity of lactic acid bacteria isolated from fermented yak milk products of Sikkim**” at Gangtok.
6. **Participated and presented paper Orally** in an International Conference on **Nutraceuticals and Functional Foods-The Challenges and Opportunities**, organized by Anand Agricultural University, Anand and Indian Society of Agricultural Biochemists Kanpur on 6th – 8th December, 2016 at Anand Agricultural University, Anand, Gujarat.

Workshops

1. One Day Workshop on “Career Business prospects in Food Processing” organized by National Institute of Food technology Entrepreneurship and Management, New Delhi and Indian Institute of Crop processing Technology, Tamil Nadu held on 29th Sept 2010 at Gangtok.
2. Participated in a workshop on Capacity Building in Effective Management of Intellectual Property Rights (IPR) in Biotechnology by Universities and Research Institutes in Sikkim, organized by DBT, Govt. Of India, Delhi on November 04-05, 2014.
3. Participated in one day workshop on “Biosafety and Bioethics” held on 22nd May 2015 at Conference Hall, Vigyan Bhawan, Deorali, Gangtok, organized by Sikkim Biotech Hub, State Council of Science and Technology with the support from Department of Biotechnology, Govt. Of India, Delhi.

Training

1. Participated in the Hands on short term training programme on “**Molecular Biology Techniques in Microbiology**” organized during **September 2-19, 2014** for 18 days sponsored by Department of Biotechnology, Govt. Of India, New Delhi at **Central Food Technological Research Institute (CFTRI), Mysore**. There were 20 participants, four research scholars and thirteen regular staffs selected on merit basis from all over the country involved in research and teaching profession.

Training cum Workshop

1. Participated in Hands on training-cum-Workshop on “ **Basic Statistics Using SPSS**” conducted by the **Applied Statistics Unit of the Indian Statistical Institute, Kolkata**, held at Department of Mathematics, Sikkim Govt. College, Gangtok, Sikkim during 05-07th November, 2014.
2. Participated in Training-cum- Workshop on “**Biological Data Analysis through Computational Approach**” conducted by **Biological Science and Technology Division**,

CSIR-North East Institute of Science and Technology, Jorhat-785006, Assam, India supported by DBT, Govt. of India on Dec 8-10, 2015.

Teaching Experience: 1yr 9 months

Research Experience:

M. Phil (2yrs)

PhD pursuing since 2013 till date (5yrs)

Previous & Present Employment:

1. **Joined as Assistant Professor** in Department of Microbiology, **Raiganj University** on 17th March, 2017 till date.
2. **Assistant Professor** in Department of Microbiology, **Raniganj Girls' College**, Searsole, Rajbari, Dist. Burdwan, 713358 since October 2016 (**5 months**) through the **West Bengal College Service Commission**.
3. **Government approved part- time lecturer** in the Department of Microbiology in **Darjeeling Govt. College** for **1 yr 3months** from Dec 2009 to Feb 2011.

Administrative Experience:

1. **Head of the Department in Dept. of Microbiology**, Raniganj Girls' College, Searsole, Rajbari, Dist. Burdwan.
2. **Hostel Prefect** of Raap Jayor Cauveri Girls Hostel in Sikkim University since March 2013 to March 2015.
3. **Student Member (PhD Scholar)** of Women's Cell, Sikkim University.
4. **Student Member (PhD Scholar)** of Anti- Ragging Committee 2011-2013.

Financial Assistances from following Organization for attending International Conferences in abroad: Nil

Publications: 7 International and 1 National

Popular Articles

1. An article published in News paper Sikkim Now "**Is fluoride in your water really good**"? **Shankar Prasad Sha and Kriti Ghatani**. October 6, 2012.
2. An Article on "**Large Cardamom : The Queen of Spices**" was published in **Agrobios Newsletter**, a monthly magazine of Agricultural and Biological sciences, Volume 10, Issue no 5, October 2011.

Books:

Book Chapter

1. Ghatani K. (2017). Traditional food culture of the ethnic community in Sikkim Himalayas- A potential to economic development. In National Integrity and its Crisis: The responsibilities of NSS. ISBN 978-81-928721-3-1 pp 348-355.

Technical Report:

Fourteen 16SrRNA sequences of indigenous Lactic acid bacteria, have been submitted to National centre for Biotechnology Information (NCBI) and provided with accession numbers as; KU601439 , KU601440 , KU601441 , KU601442, KU601443, KU601444, KX274031, KX274032, KX274033, KX274034, KX274035, KX387371, KX274030, KX354351.

Country Visited: Nepal, Bhutan

LIST OF PUBLICATIONS:

RESEARCH PAPERS :

National:

1. Kriti Ghatani and Buddhiman Tamang (2017). "Screening of indigenous lactic acid bacteria for cholesterol lowering and additional probiotic attributes" *Indian Journal of Agricultural Biochemistry*. Manuscript accepted for publication.

International:

1. Kriti Ghatani ¹, Nagendra Thakur²and Buddhiman Tamang³.(2012) "Isolation and characterization of cholesterol utilizing potential Lactic acid bacteria" in an *International Journal of Agriculture and Food science and Technology*, Volume 3, Number 2:117-112, ISSN 2249-3050.
2. Kriti Ghatani ¹, Shankar Prasad Sha ² and Krishna Kant Yadav³. (2013). **A Comparative Study of extraction procedures for Isolation and Characterization of Extracellular Polymeric Substances of *Proteus mirabilis***. *International Journal of Environmental Research and Development*. Volume 3, Number 8:39-43, ISSN No: 2249-3131.
3. Kriti Ghatani ¹ and Shankar Prasad Sha ². (2013). **Tari, a naturally fermented alcoholic beverage of West Bengal**. *International Journal of Biotechnology and Bioengineering Research*, Volume 4, Number 3: 415-420, ISSN No: 2231-1238.

4. Shankar Prasad Sha¹ and Kriti Ghatani². (2013). **Khajur Tari, a naturally fermented alcoholic beverage of West Bengal and Bihar**. *International Journal of Biotechnology and Bioengineering Research*, Volume 4, Number 3:401-408, ISSN No: 2231-1238.
5. Shankar Prasad Sha¹, Kriti Ghatani², and Jyoti Prakash Tamang³. (2013). **Dalbari, a Traditional Pulses based fermented food of West Bengal**. . *International Journal of Environmental Research and Development*. Volume 3, Number 8:34-38, ISSN No: 2249-3131.
6. Kriti Ghatani and Buddhiman Tamang (2016). **“Indigenous rearing practices of Yak and its multipurpose uses in the Sikkim Himalayas”**. *IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS)* e-ISSN: 2319-2380, p-ISSN: 2319-2372. 9(3)1:1-8 www.iosrjournals.org
7. A paper titled **“Assessment of probiotic characteristics in lactic acid bacteria isolated from Chhurpi, Shyow and Khachu, the fermented Yak”** authored Kriti Ghatani and Buddhiman Tamang is accepted in an International Journal.