

CURRICULUM VITAE



PERSONAL DETAILS:

Name: Dr. MANISHA MAITY

Assistant Professor and Head
Department of Food and Nutrition
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Gender: Female

DOB: 28/07/1990

Address: Vill+PO- Sutahata
Dist: Purba Medinipur
West Bengal-721635

Current location: Barrackpore, West Bengal

- **EDUCATIONAL QUALIFICATION:**

ACADEMIC:

PhD, **Indian Institute of Engineering Science and Technology, Shibpur.**

Area: Microbial Biotechnology

2022: PhD Thesis: Studies on microbial production of β -galactosidase for use in making low lactose dairy products and other value added food ingredients

2012: Masters of Science (M. Sc) in Food processing and Nutrition Sciences, Bengal Engineering and Science University, Shibpur. Marks obtained: 73.85%

2010: Bachelor of Science (B. Sc) in Nutrition (H), Raja Narendra Lal Khan Women's College,

Vidyasagar University. Marks obtained: 78%.

- **HONOURS, AWARDS AND FELLOWSHIP:**

- University **Second rank** holder in B.Sc. examination
- Received **Post Graduate Merit Scholarship For University Rank Holder**
- Financial assistance was provided in the form of a **Senior Research Fellowship** by the **Indian Council of Medical Research**, New Delhi, India
- Qualified **West Bengal SET** for eligibility for Assistant Professor held on 19.01.2020 in the subject HOME SCIENCE.

- **Member of Professional Bodies**

Life membership: Journal of Food Science and Technology

- **RESEARCH PUBLICATIONS:**

Publication Details:

Journal Publications:

- Maity, M., Sanyal, S., Bhowal, J*, & Bhattacharyya, D. K. (2013).** Studies on isolation and characterization of lactase produced from soil bacteria. *Research Journal of Recent Science*, 2(8), 92-94.
- Maity, M., Bhattacharyya, A., & Bhowal, J* (2021).** Production and immobilization of β -galactosidase isolated from *Enterobacter aerogenes* KCTC2190 by entrapment method using agar-agarorganic matrix. *Applied Biochemistry and Biotechnology*, 193(7),2198-2224. <https://doi.org/10.1007/s12010-021-03534-8>.
- Dutta, R., Maity, M., & Bhowal, J* (2021).** Production of medium chain fatty acid rich single cell oil using whole de-oiled mustard meal from soil fungus. *Indian Journal of Biochemistry and Biophysics (IJBB)*, 58(3), 303-311. <https://doi.org/10.56042/ijbb.v58i3.28991>
- Maity, M., Majumdar, S., Bhattacharyya, D. K., Bhowal*, J., Das, A.,& Barui, A. (2022).** Evaluation of Prebiotic Properties of Galactooligosaccharides Produced by Transgalactosylation Using Partially Purified β -Galactosidase from *Enterobacter aerogenes* KCTC2190. *Applied Biochemistry and Biotechnology*, 1-23. <https://doi.org/10.1007/s12010-022-04073-6>
- Maity, M., Bhattacharyya, D. K. and Bhowal, J* (2023).** Improvement of β -galactosidase production by solid-state fermentation using cauliflower (*Brassica oleraceae* var. *botrytis*) waste by *Enterobacter aerogenes* KCTC2190. *Research Journal of Biotechnology*, 18(3), 18-23.

- vi. Mukherjee, M., Paul, T., Halder, S., & **Maity, M***. (2023). Illuminating Focus on The Food Preservation with Different Essential Oils and Their Effects: A Review. *Journal of Advanced Zoology*, 44. <https://doi.org/10.17762/jaz.v44iS6.2667>
- vii. Prakash, N., Ghosal, S., & **Maity, M***. (2023). A Review on Therapeutic Effects of L-Carnitine: An Update. *Journal of Advanced Zoology*, 44. <https://doi.org/10.17762/jaz.v44iS6.2700>
- viii. Rana, R & **Maity, M***. (2023). Novel Trends in The Development of Hydrogel from Plant Sources and Their Effect in Environment and Human Health: A Review. *Journal of Advanced Zoology*, 44 <https://doi.org/10.17762/jaz.v44iS6.2671>
- ix. Bose, S., **Maity, M.**, & Kar, S*. (2023). Antinutrient Phytic acid: Can be proved to be a Boon for Colorectal Cancer. *Journal of Advanced Zoology*, 44. <https://doi.org/10.17762/jaz.v44iS6.2681>
- x. Saha, J., **Maity, M.**, Roy, S. K., & Ghosal, S*. (2023). Nutritional and Health status of tribal people: A review. *Journal of Advanced Zoology*, 44. <https://doi.org/10.17762/jaz.v44iS6.2676>
- xi. Rozario, P. C., **Maity, M***., Dhara, A & Wasiqa, S. (2024). Survey on the evolution of severity of Diebetic patientsamong different age groups and sexes in Central Kolkata. *Journal of Advanced Zoology*, 45, 546-553. <https://doi.org/10.53555/jaz.v45i1.4576>
- xii. Bedi, S., **Maity, M***., Bandhopadhyay, B., Kar, T. K., Pahari, S., & Panda, T. (2024). Isolation and characterization of *Lactobacillus* sp. From different dairy products and fermented foods for their application on gastrointestinal disorder. *Journal of Advanced Zoology*, 45, 554-559. <https://doi.org/10.53555/jaz.v45i1.4579>
- xiii. Gupta, S., Das, P., Neogi, B., Roy, A., Sur, M., **Maity, M.**, & Majumdar, T. (2024). Technology Enhanced Learning driven music inspired LEARN with NOODLE model for inclusive education. *Journal of Engineering Education Transformations*, 37(Special Issue 2).
- xiv. Bhattacharjee, B., Adhikary, A. S., Nag, S. M., Roy, A., Khaitan, J., Talukdar, A., **Maity, M** & Saha, S. (2024). Exploring the relationship between handgrip strength and cardiovascular risk factors in the elderly population of Kolkata: A hospital-based cross-sectional observational study. *Clinical Nutrition ESPEN*, 63, 1144-1145.
- xv. Chowdhury, M., & **Maity, M.** (2025). Extraction of valuable pigments from vegetable waste pumpkin peel. *Journal of Current Research in Food Science*. 6(1), 5-12.
- xvi. Prakash, N., & **Maity, M.** (2025). Amaranth, finger millet and L-carnitine: A review on their potential role in management and prevention of various lifestyle diseases. *International Journal of Multidisciplinary Trends*. 7(2). 19-23. [10.22271/multi.2025.v7.i2a.590](https://doi.org/10.22271/multi.2025.v7.i2a.590)
- xvii. Banka, R., & Maity, M. (2025). Redefining food with Tulsi leaves: A review on novel food product development. *International Journal Of applied Research*. 11(2). [10.22271/allresearch.2025.v11.i2b.12342](https://doi.org/10.22271/allresearch.2025.v11.i2b.12342)

Book Chapters:

- i. **Maity, M***, Bhattacharyya, D. K., & Bhowal, J* (2021). Production of Lactose-Free Cheese Using Partially Purified β -Galactosidase from *Enterobacter aerogenes* st KCTC2190. In *Advances in Bioprocess Engineering and Technology* (pp. 39-50). Springer, Singapore. https://doi.org/10.1007/978-981-15-7409-2_5.
- ii. Kul, A., **Maity, M*** (2024). Enrichment of Biscuits with omega-3 fatty acids: A review. *Applied clinical nutrition and food science: A holistic guide towards robust health*. (pp 3-7). Bright Sky Publication.
- iii. Mukherjee, M., **Maity, M*** (2024). Insights of beneficial effects of protein bar using plant-based foods: A review. *A holistic guide towards robust health*. (pp 89-95). Bright Sky Publication.
- iv. Chowdhury, M. & **Maity, M*** (2025). Isolation of proteins from various plant wastes and their uses in the formulation of food

Conference paper

- i. Maity, M., Hembram, A., & **Bhowal, J*** (2016). Screening and isolation of enzyme producing bacteria from soil, *Research Scholars Colloquium*, ISBN:978-93-80813-44-8
- ii. Bedi, S., Ghosh, S., Bandyopadhyay, B., Bedi, S., & **Maity, M*** (2023). Fermentation enhanced nutritional quality of food: A review. *Journal of Survey in Fisheries Sciences*, 10(1S), 6139-6145.
- iii. Roy, P., Rana, R., Neogi, S., Dutta, K., **Maity, M.**, & Tewari, S. (2023). Postbiotics: potential applications in early life nutrition and beyond. *Journal of Survey in Fisheries Sciences*, 10(1S), 6161-6169.
- iv. Feroz, F., Sarkar, A., Afreen, A., Mukherjee, M., Paul, T., Chakraborty, S & **Maity, M*** (2023). Illuminating focus on the health benefits of fermented foods against cancer. *Journal of Survey in Fisheries Sciences*, 10(1S), 6188-6194.
- v. Koner, D., Ansari, G. A., Roy, P., Paul, A., Fatma, A., & Maity, M. (2023). Effects of Diet on Endometriosis. *Journal of Survey in Fisheries Sciences*, 10(1S), 6195-6203.
- vi. Bedi, S., **Maity, M***, Bandhopadhyay, B., Bedi, S., & Ghosh, S. (2023). An insight into the health-promoting effects of foods to prevent Antibiotic-associated Diarrhoea: A Review. *Journal of Survey in Fisheries Sciences*, 10(1S), 6204-6211.
- vii. Hazra, A., Saha, D., Banik, S., Banik, S., Das, S., & **Maity, M*** (2023). INDUSTRIALLY IMPORTANT XYLANASE FROM MICROBIAL SOURCES AND THEIR APPLICATIONS. *Journal of Survey in Fisheries Sciences*, 10(1S), 6089-6098

Patent:

- **Title:** Gupta, S., **Maity, M.**, Su, M., Majumder, T., Roy, A., and Das, P. (2023), Interactive Technology-driven Low-cost Virtual Learning device NOODLE for equity to address digital divide, Application No.202331012519 A, Publication Date : 10/03/2023

CONFERENCES AND WORKSHOPS

- Oral Presentation on **Evaluation of prebiotic properties of galactooligosaccharides produced by transgalactosylation using partially purified β -galactosidase from *Enterobacter aerogenes* KCTC2190**, in **Biospectrum 2021 International Conference on Biotechnology & Biological Sciences**, held on 18th to 20th November, 2021, organized by Department of Biotechnology, University of Engineering and Management, Kolkata, West Bengal.
- Oral presentation on **Production of lactose free cheese using partially purified β -galactosidase from *Enterobacter aerogenes* st KCTC2190**, in 2nd International Conference on Advances in Bioprocess Engineering and Technology, at **ICABET, 2020** organized by Department of Biotechnology and Department of Chemical Engineering Heritage Institute of Technology, Kolkata from 20-22 January, 2020.
- Poster presentation on **Application of β -galactosidase from *Enterobacter aerogenes* st KCTC2190 in Processing Low Lactose Milk and Whey**, in 8th International Food Convention #IFCoN 2018, CSIR-CFTRI, Mysuru, held on December 12th-15th, 2018 at CSIR-CFTRI, Mysuru.
- Oral presentation on **Screening, isolation and characterization of β -Galactosidase from soil *Enterobacter* sp.**, in 3rd International Conference on Global Trends In Pure and Applied Chemical Sciences, held on December 8th-9th 2017 at SRM University, Delhi-NCR Campus, Gaziabad (U.P).
- Oral presentation on **Screening and isolation of enzyme producing bacteria from soil**, in Research Scholar Colloquium (RSC-2016), held on 23th-24th at IEST, Shibpur, West Bengal, India
- Participated in **Short-term course** titled “**Past, Present & Future of Our Food**” conducted by the Department of Humanities and Social Sciences held from 11-20 January, 2016
- Participated in a **workshop** on “**Breast Feeding Techniques**”. Organized by Maharani Kasiswari College, Calcutta University on 5th August, 2024.

External Examiner of:

1. Raja N. L. Khan Womens College
2. Mednapore College

External Paper Setter of:

1. Midnapore City College
2. Raja N. L. Khan Womens College

References

- Dr. Shyam Sundar Nandi, Scientist D, ICMR, National Institute of Virology (NIV), Pune, nandibiotech@gmail.com
- Prof. Dilip Kumar Nandi, Associate Professor and Head, Department of Food Science and Nutrition, Raja N. L. Khan Women’s College, West Bengal, dilipnandi2004@yahoo.co.in

I hereby declare that all the data given here are true and to the best of my knowledge.

A handwritten signature in blue ink, appearing to read 'Maity', with a horizontal line extending to the left.

Dr. Manisha Maity

