

CURRICULUM VITAE

DR. ANUPAMA BORA

Name: Dr. Anupama Bora
Current Designation: Assistant Professor
B. Voc in Food Processing,
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Citizenship : Indian
Date of Joining : 21st September, 2023

SUMMARY

Educational

background : B.Tech (Biotechnology), GUIST, Gauhati University, Assam
M. Tech (Food Engineering and Technology), Tezpur University, Tezpur
PhD from Center for the Environment, Indian Institute of Technology(IIT), Guwahati

Research areas

/area of

specialization : Food Technology, Food Processing, Nanobiotechnology.

LIST OF PUBLICATIONS

1. Bag, S. S.*, **Bora, A.**, Golder, A., Raina, K., Haridhasapavalan, K. K. and Thummer, R. P. (2022) 'Gelatin-Pva-Agnps Triad Composite as Wound Healing Hydrogel with Wounded Skin Surface Protective Efficiency', *SSRN*. <http://dx.doi.org/10.2139/ssrn.4219683>
2. Bag, S. S.*, **Bora, A** and Golder, A. (2021) 'Turning Wastes into Value-Added Materials: Polystyrene Nanocomposites (PS-AgNPs) from Waste Thermocol and Green Synthesized Silver Nanoparticles for Water Disinfection Application', *Polymer Composites*. 42, 11. 6094-6105. <https://onlinelibrary.wiley.com/doi/10.1002/pc.26287>
3. **Bora, A** and Golder, A. (2020) 'Biomimetic Synthesis of Silver Nanoparticles Using Bhimkol (*Musa balbisiana*) Peel Extract as Biological Waste: Its Antibacterial Activity and Role of Ripen Stage of the Peel', *Current Nanomaterials*, 05, 01. 47-65. **DOI:** [10.2174/2405461505666200228121003](https://doi.org/10.2174/2405461505666200228121003)
4. **Bora, A** and Mishra, P. (2019) 'Casein and Ag nanoparticles: Synthesis, characterization, and their application in biopolymer-based bilayer film', *Journal of Food Processing and Preservation*. 43. e14062. <https://ifst.onlinelibrary.wiley.com/doi/abs/10.1111/jfpp.14062>

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5. Bag, S. S.*, Banerjee, A., Singh, A., Golder, A. and **Bora, A.** (2018) 'Green Synthesis of Silver Nanoparticle using *Sechium edule* Aqueous Extract and Study of Antimicrobial and Catalytic Activity', *Current Nanomaterials*, 03, 03. 140-146. DOI: [10.2174/2405461503666181002115659](https://doi.org/10.2174/2405461503666181002115659)
6. **Bora, A** and Mishra, P. (2016) 'Characterization of casein and casein-silver conjugated nanoparticle containing multifunctional (pectin–sodium alginate/casein) bilayer film', *Journal of Food Sc. and Tech.*, 53. 3704–3714. <https://link.springer.com/article/10.1007/s13197-016-2343-4>

Book Chapter: **Bora A.** and Mishra P. (2019). Casein and Casein-Ag Conjugated Nanoparticles: Synthesis Characterization and Application as an Active Ingredient in Edible Bilayer Film in Innovations in Food Processing Technologies, published by New India Publishing Agency.

INDUSTRIAL AND RESEARCH TRAINING

- Completed one month of Summer Training (1st July-30th July, 2014) at Repose Foods Pvt Ltd, Panjabari, Guwahati for a better understanding of the production lines of the various bakery and confectionary items.
- Completed 15 days Summer Training (25th June-13th July, 2012) in the Life Science Division, Institute of Advanced Study in Science and Technology(IASST), Garchuk, Guwahati for studying the Isolation of hydrocarbon degrading bacteria from soil and plant leaf surfaces, extraction of bacterial DNA from soil and for exposure to basic molecular biology techniques.

ACHIEVEMENTS

- Second Best Poster at National Seminar cum workshop, IPFP 2015, Tezpur University, India
- Recipient of Engineering Merit Scholarship in Biotechnology from 2009-2013 by AICTE, Government of Assam, India.
- Recipient of Anundoram Borooah Award, 2006 by Government of Assam, India.

CONFERENCES:

1. **Bora, A. (Oral Presentation)**, Kuotsu, R. N. and Chand, K. on 'Sustainable development of value-added products from pineapple bio-waste', at National Seminar on Sustainable Emerging Approach in Agri-Business Development, held at Department of Agricultural Economics, Nagaland University, SAS, Medziphema Campus, Nagaland from 01st to 3rd November 2023.
2. **Bora, A. (Oral Presentation)**, Bag, S.S. and Golder, A.K. on 'Polystyrene Nanocomposites prepared from Waste Thermocol encapsulated with green synthesized Silver Nanoparticles' at International Conference on Functional Materials (ICFM 2020) at Material Science Center, IIT Kharagpur, West Bengal, India on 6th -8th Jan 2020.
3. **Bora, A. (Oral presentation)**, Bag, S.S. and Golder, A.K. on 'Waste Thermocol Recycled into low cost Polystyrene Nanocomposites for Water Disinfection Application' at Issues and challenges in water treatment and allied research for sustainable environment (WATER 2020) at Center of the Environment, IIT Guwahati, India on 23th-25th Jan 2020.
4. **Bora, A. (Poster presentation)**, Bag, S.S. and Golder, A.K. on 'Characterization of

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Functional Polystyrene Nanocomposites developed from Waste Thermocol for Water Disinfection Application’ at DST-UKIERI supported Workshop cum Symposium – Bio-inspired Nanomaterials for Environmental Applications held at Indian Institute of Technology Guwahati on 12th -13th Feb, 2020.

5. **Bora, A. (Poster presentation)**, Bag, S.S. and Golder, A.K. on ‘Green Synthesis and Characterization of Silver Nanoparticles using Bhimkol Peels which is an Agro-Waste and Study of its Antimicrobial Activity’ at Indo-Japan Bilateral symposium on Future perspective of Bioresource Utilization in North-East India (IJBS17) held by IIT Guwahati and Gifu University at IIT Guwahati on 1-4 Feb, 2018.
6. **Bora, A. (Poster Presentation)**, Aktar, J. and Mahagaonkar, A. on ‘Could Urban Forest Save Our World?’ at Research Conclave 2017 at IIT Guwahati from 16th- 19th March, 2017.
7. **Bora, A. (Poster presentation)** and Mishra, P. on ‘Synthesis and characterization of casein and conjugated casein silver nanocomposite’ presented at ‘National Seminar cum Workshop on Innovative Prospects in Food Processing; Integration of Engineering and Biological Sciences (IPFP-2015)’ held at the Department of Food Engineering and Technology, Tezpur University, Assam on 27th – 28th March 2015.
8. **Bora, A. (Poster Presentation)**, Dey, B. and Kalita, A. on ‘Cytotoxic Effects of Indian Based Paan Masala’ presented at the ‘International Seminar on Bioresources and Human Sustenance’ at Cotton College, Guwahati, Assam, India on 20th-22th October, 2011.
9. **Bora, A. (Poster presentation)**, Dey, B. and Kalita, A. on ‘Green Synthesis of Silver Nanoparticles using leaves of *Cinnamomum tamala* and its Antibacterial Activity’ at the ‘18th International conference (Post ISCBC-2012) perspective and challenges in chemical and biological sciences innovation cross roads’, held at Institute of Advanced Study in Science and Technology(IASST), Garchuk, Guwahati, India on 28th-30th January, 2012.

EXTRA-CURRICULAR ACTIVITIES

- Hobbies: Poetry, Photography, Painting and Running.
- Certificate of selection in Tasveer 2019 Photography Contest, an exhibition hosted by Chiiz.com, organized by Montage, Photography Club of IIT Guwahati.
- Second prize winner in English Poetry Slam at International Women’s Day 2016 at IIT Guwahati, India.
- Organized departmental activities and events during PhD duration.

Self-Declaration

I, Anupama Bora do hereby confirm that the information given above is true to the best of my knowledge.

ANUPAMA BORA