LIST OF PAPER PUBLISHED, PRESENTED IN CONFERENCES/WORKSHOP

Paper published (SCI Journals):

- 1. **Debashis Dutta** & Mira Debnath Das (2017) Optimization and partial characterization of intracellular anticandidal protein from Aspergillus giganteus MTCC 8408 using taguchi DOE, Bioengineered. 2017; 8(5): 536–548.
- 2. **Debashis Dutta** & Mira Debnath Das (2017) Effect of C/N ratio and microelements on nutrient dynamics and cell morphology in submerged fermentation of *Aspergillus giganteus* MTCC 8408 using Taguchi DOE, 3 Biotech May 2017, 7:34
- 3. **Debashis Dutta** & Mira Debnath Das (2017) Effect of Carbon and Nitrogen Sources on Mycelial Biomass and Biosynthesis of Antifungal Protein from *Aspergillus giganteus* MTCC 8408 in Submerged Fermentation, JSIR Vol.76(06)369-375.
- 4. **Debashis Dutta**& Mira Debnath Das (2018) Biosynthesis of Low Molecular Weight Antifungal Protein from *Aspergillus giganteus* in Batch Fermentation And in-Vitro assay, Journal of Biocontrol Science, Volume 23 Issue 2 Pages 41-51. https://doi.org/10.4265/bio.23.41

Book published (International):

1. **Debashis Dutta**& Mira Debnath Das (2016) Production and Optimization of Anti-fungal Protein Using Taguchi DOE, ISBN-13: 978-3-659-93695-1, GmbH, Germany, Omniscriptum (LAP).

Book chapter published (International):

1. **Debashis Dutta**& Mira Debnath Das (2016) Food Irradiation Technology: A Novel Aspect for the Future in Food Process Engineering and Quality Assurance, **ISBN:** 978-1-315-23296-6, Taylor & Francis, USA (AAP).

Paper presentation in Conference (International):

1. International Conference on Biomolecular Engineering 2016, at Singapore on January 5-7, 2016 by Society for Biological engineering, USA and AIChE, USA.

Paper presentation in Conference (National):

- 1. Biomedicine: Unfolding the Secrets from Nature, January 10-11, 2014 at Institute of Bioinformatics and Biotechnology, University of Pune.
- 2. Annual meeting of the Proteomics Society of India, December 7-9, 2014 at Indian Institute of Technology Bombay (IIT-B).

Conference Proceedings (National):

1. **Debashis Dutta,** Mira Debnath (Das). 2014. Purification Assay and Production Optimization of Antifungal protein from Aspergillus giganteus (MTCC No 8408) Using Taguchi Statistical Approach (Conference Proceedings). Journal of Proteins and Proteomics, Vol. 5, No. 3, ISSN: 0975-8151.

Workshop (National):

- 1. Bioinformatics workshop on genomics, proteomics, drug design and high performance computing, September 16-25, 2014 at Indian Institute of Technology Delhi (IIT-D).
- 2. Mass spectrometry workshop, December 10-11, 2014 at Indian Institute of Technology Bombay (IIT-B).
- 3. Advanced Microscopy and imaging Techniques workshop, August 7-8, 2015 at Indian Institute of Technology BHU (IIT-BHU) by DSS ImagE tech Olympus Medical System and Photometric, USA.

QIP-Short Term Course:

1. Bioprocess Instrumentation and Control in Bioreactor Design, November 7-13, 2017 at Indian Institute of Technology BHU (IIT-BHU).

Scientific Articles (National):

- 1. Debashis Dutta, Mira Debnath (Das). E Coli and Salmonella-The Most Causative Food Borne Pathogens-National Threat to Human Health. 2014. ISSN 2349-1418. Scientific India. ISSN 2349-1418.
- 2. Debashis Dutta, Mira Debnath (Das). Proteomic Assay in Clinics: Vision 2020. 2016. ISSN 2349-1418. Scientific India.
- 3. Debashis Dutta (2016). Risk assessment and Safety Hazards in Foods. ISSN 2349-1418. Scientific India.
- 4. Debashis Dutta and Mira Debnath (Das). Food Irradiation: A Novel perspective against emerging Post Harvest loss. ISSN 2349-1418. Scientific India.

SKILLS:

- ♣High throughput bioprocess design and scale up; Sustainable Food Irradiation scale-up; biosynthesis of microbial metabolic products from waste resources.
- Application on fungal diseases and food spoilage microorganisms; Protein fractionation, expression and purification;
- ♣ Protein modification with various cross linking/conjugation/PEGylation; Filtration; lyophilization;
- ♣ Taguchi statistical DOE and optimization; Proficient in various biotechnology related software, Berkley-Madona, Qualitek-4, SPSS, ets...