



## Dr. Saswati Gayen

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**Designation:** Assistant Professor  
**Department:** Microbiology  
**Qualification:** M.Sc , Ph.D.  
**Specialization:** Environmental Microbiology

### Employment Details

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Part time lecturer in the Department of Microbiology at Sammilani Mahavidyalaya (From 2005 to 2008)

### Published Work

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[1] Saswati Gayen and Uma Ghosh. Utilization of agri-horticultural wastes for production of tannase enzyme using *Penicillium notatum* NCIM 923 by solid state fermentation. 2008. J.Mycopathol.Res. **46(2)**:276-270.

[2] Gargi Podder, Saswati Gayen and Uma Ghosh. Production and characterization of fungal tannase by submerged fermentation using *Penicillium notatum* NCIM 923. 2010. J. Vivekananda Institute of Medical Sci. **33(I-II)**: 20-25.

[3] Saswati Gayen and Uma Ghosh. Effect of carbon compounds and metal ions on the production of tannase by *Penicillium notatum* NCIM 923 utilizing agri-horticultural wastes by solid state fermentation. 2012. J. Mycopathol. Res. **50(1)**: 67-71.

[4] Saswati Gayen and Uma Ghosh. Production of extracellular tannase by *Penicillium notatum* NCIM 923 and optimization of various process parameters. 2013. J. Mycopathol. Res. **51(1)**: 135-139.

[5] Saswati Gayen and Uma Ghosh. Purification and characterization of Tannin Acyl Hydrolase produced by mixed solid state fermentation of wheat bran and marigold flower by *Penicillium notatum* NCIM 923. 2013. BioMed Res. Int. Article ID: 596380. (online journal).

### Seminar/Conference/Workshop Attended

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- **National Symposium on Microorganisms and their role in Plant and Human Affairs**, Indian Mycological Society in collaboration with Department of Botany, University of Calcutta, 3-5 Dec, 2009.
- **Symposium on Challenges of Teaching Microbiology in Under Graduate Colleges**, Centre for Modern Biology University of Calcutta, 25 Sep, 2010.
- **Workshop on Statistical Methodologies in Modern Biology**, Centre for Modern Biology, University of Calcutta, 25-26 Aug, 2011.
- **National Symposium on Frontlines of Microbiological Research: Concept and Applications**, Indian Mycological Society in collaboration with Department of Botany, University of Calcutta, 2-4 Feb, 2012.
- **Seminar on National Perspective of Microbiology Research** in India, Department of Microbiology, University of Calcutta, 14-15 Mar, 2013.
- **Seminar on Current Research in Microbiology**, Department of Botany, University of Calcutta, 4 April, 2014.
- **Seminar cum workshop on Microbial structuring and its role in marine and other ecosystems functioning**, Department of Biochemistry, University of Calcutta, 15 Nov, 2014.
- **Workshop on Soft Skills Development and Stress Management**, Vivekananda College in collaboration with Centre for Counselling Services and Studies in Self Development-Jadavpur University, 7-13 July, 2015.
- **Seminar on Science for Nation Building**, Department of Microbiology, Dinabandhu Andrews College, 22 Dec, 2015.
- **Workshop on Soft Skill, Stress and Well-being**, IQAC, Vijaygarh Jyotish Ray College in collaboration with Centre for Counselling Services and Studies in Self Development-Jadavpur University, 20-26 Sep, 2016.
- **Seminar on Guideline of Career Advancement Schemes (CAS)**, IQAC, Vijaygarh Jyotish Ray College, 8

Dec, 2016.

- **Seminar on Sensitization Program on Ageing**, NSS, Vijaygarh Jyotish Ray College, 10 Dec, 2016.
- **International level seminar** on Recent Trends in Microbiology, Department of Microbiology, Ramakrishna Mission Vidyamandira, 14 Jan, 2017.
- **UGC sponsored National seminar on Recent Advances in Biological Sciences**, Department of Microbiology in Collaboration with Indian institute of Chemical Biology and Dum Dum Motijheel College, 17-18 Feb, 2017.

### **Refresher/Orientation Programme Attended**

**Refresher course** on Recent Advances in Fermentation Technology, UGC Academic Staff college, Jadavpur University, 15.06.2010-05.07.2010.

**Orientation Programme**, UGC Academic Staff college, Jadavpur University, 27.01.2014-24.02.2014.

### **Summer Project Guided**

Abhishek Das, A study on the quality of drinking water of two railway stations (Jadavpur and Baghajatin), in Kolkata, 2016.

### **Papers Reviewed**

1. Classical single factor optimization of parameters for Phenolic Antioxidant Extraction from Tamarind Seed (*Tamarindus indica*), Plant Science Today, 2016.
2. Optimization of laccase production by isolated potent fungal strain PUF 2 and study of its decolorization ability for commercial dyes, MAC Journal of Basic and Applied Sciences, 2016.
3. Effect of extraction temperature and technique on phenolic compounds and antioxidant activity of *Tamarindus indica* Seeds, Research Journal of Recent Sciences, 2017.

### **Poster/Oral Talk Presented**

**Oral presentation** given on Effect of carbon compounds and metal ions on the production of tannase by *Penicillium notatum* NCIM 923 utilizing agri-horticultural wastes by solid state fermentation, in the National Symposium organized by Indian Mycological Society in collaboration with Department of Botany, University of Calcutta, 3-5 Dec, 2009.

**Oral presentation** given on Production of extracellular tannase by *Penicillium notatum* NCIM 923 and optimization of various process parameters, in the National Symposium organized by Indian Mycological Society in collaboration with Department of Botany, University of Calcutta, 2-4 Feb, 2012.

**Poster presentation** on A study on the quality of drinking water of two railway stations (Jadavpur and Baghajatin), in Kolkata, in UGC sponsored National level Seminar on Modern Trends in Environmental Microbiology organized by Department of Microbiology, Scottish Church College, 30-31 Jan, 2017.

### **Resource Person**

- Seminar on World Photography Day, organized by Department of Journalism & Mass Communication, Vijaygarh Jyotish Ray College, 20 Aug, 2016.
- Departmental Seminar of Microbiology in Sammilani Mahavidyalaya, 27 Sep, 2016.