



DR. KAVITA GHOSAL

DESIGNATION

ASSISTANT PROFESSOR, DEPARTMENT OF BOTANY

EDUCATION

2017-2019- **Post Doctorate** (National Post Doctoral Fellow from DST-SERB) in Molecular Biology, Indian Association for the Cultivation of Science, Kolkata

2016– **PhD** in Life Science and Technology,
Bose Institute, registered in Jadavpur University

2008– **M. Sc** in Botany, Bethune College, University of Calcutta

2006– **B. Sc** in Botany, Serampore College, University of Calcutta

WORK EXPERIENCE

2019, August-Continued- Assistant Professor in Botany in P. D. Women's College, Jalpaiguri, West Bengal

2019 (summer time): Teaching integrated BS-MS-PhD students (practical course) at IACS (Indian Association for the Cultivation of Science, Kolkata, India as a research associate

2016-17: Teaching Botany (theory and practical) for BSc- Honours and General course in Acharya Prafulla Chandra College, New Barrackpore, Kolkata, India as a guest lecturer.

2016-17: Teaching Botany (theory and practical) for Post Graduate course in Serampore College, Hooghly, India as a guest lecturer.

PROFILE:

CONTACT

WEBSITE:

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DATE OF JOINING:

31.08.2019

RESEARCH INTEREST

Biomonitoring, Respiratory Allergy, Immunology, Proteomics, Protein Purification, Gene Silencing, Understanding of Regulome.

LIST OF PUBLICATION (DESCENDING ORDER)

1. **Ghosal K**, Sinha D, Singh SP: A Mechanistic Overview of Heavy Metal Detoxification in Plants in Book: Heavy Metals in Plants, Edition 1st Edition, First Published 2022, Imprint CRC Press Pages 35, eBook ISBN 9781003110576; <https://doi.org/10.1201/9781003110576>
2. **Ghosal K**, Chatterjee M, Ganguly S, Niyogi SS, Sinha D: Arsenic Induced Responses in Plants: Impacts on Different Plant Groups, from Cyanobacteria to Higher Plants in Book: Arsenic in Plants: Uptake, Consequences and Remediation Techniques; First published: 09 September 2022, Willey Online Library; <https://doi.org/10.1002/9781119791461.ch4>
3. Dey D., **Ghosal K.**, Bhattacharya S. G. (2018). Aerial fungal spectrum of Kolkata, India along with their allergenic impact on the public health: A quantitative and qualitative evaluation. *Aerobiologia*. 10.1007/s10453-018-9534-6
4. Chakraborty P., **Ghosal K.**, Sengupta K., Karak P., Sarkar E. (2018) Airborne fungal spores in a suburban area of eastern India with reference to their allergenic potential and effect on asthma related hospitalization. *J Palynol.* 54 57-76
5. Chakraborty P., **Ghosal K.**, Sarkar E., Bhattacharya S. G. (2016). Atmospheric pollen grains of a suburban area near India-Bangladesh border with reference to their allergenic potential and probable effect on asthma-related hospital admission: a seven year study. *Current Science* 111:9 1486-91
6. **Ghosal K.**, Saha B., Bhattacharya S. G. (2016). Clinical and immuno-proteomic approach on *Lantana camara* pollen allergy - a major health hazard. *Allergy Asthma Clin Immunol.* 12:33. 10.1186/s13223-016-0135-z
7. Dey D., Saha B., Sircar G., **Ghosal K.**, Bhattacharya S. G. (2016). Mass spectrometry-based identification of allergens from *Curvularia pallescens*, a prevalent aerospore in India. *Biochim. Biophys. Acta* 1864 869–879. 10.1016/j.bbapap.2016.03.012.

8. **Ghosal K.**, Bhattacharya S. G. (2015). Current glimpse of airborne allergenic pollen –in Indian subcontinent. *Acta Agrobotanica*. 68:4 349–355. 10.5586/aa.2015.034.
9. **Ghosal K.**, Pandey N., Bhattacharya S. G. (2015). Biomonitoring of pollen grains of a river bank suburban city, Konnagar, Calcutta, India, and its link and impact on local people. *Ann. Agric. Environ. Med.* 22 236–242. 10.5604/12321966.1152072
10. **Ghosal K.**, Bhattacharya S. G. (2012). Biomonitoring of fungal spores of a riverbank suburban city, Konnagar and its link and impact on local people health. *Indian J Aerobiology*. 25:1 1-7

AWARDS AND RECOGNITION

1. **Selected for DST-SERB funded National post-doctoral fellowship in April, 2017.**
2. **Selected for CSIR scholarship for SRF (extended) ship in the scheme on "Molecular mechanism regulating Trehalose Metabolism by methylation in yeast", to work at IICB, Kolkata for the tenure of 2015-2016.**
3. **Travel grant from DBT (Department of Biotechnology) India for the poster presentation at BSACI, 2014 conference on 28-30.09.2014 at Telford, United Kingdom.**
4. **Travel grant from Bose Institute, DST (Department of Science & technology) India for the poster presentation in the EAACI-WAO, 2013 conference on 22.6-26.6.2013 at Milan, Italy.**
5. **Travel Grant from ICMR (Indian council of medical research) of India & Grant from 5thESA, 2012(5th European Symposium on Aerobiology) for the oral presentation in the 5th International symposium on Aerobiology 03.09-07.09.2012 at Krakow, Poland.**
6. **Selected for Joint Junior research fellowship and lectureship in 2009 Joint CSIR-UGC National Eligibility Test (with percentile score of 93.92% and 271 rank); CSIR Award No. 09/015(0384)2010-EMR-I**

SEMINAR AND CONFERENCE ATTENDED

1. Presented a poster at IABS (An Interdisciplinary Approach to Biological Sciences) Conference, 2018; Venue: 1-3 February, 2018, Kolkata, India
2. Delivered an oral presentation at 19th National Conference of Indian Aerobiological Society; Venue: 9-11 December 2016 Bose Institute, Kolkata, West Bengal
3. Attended and presented a poster at EAACI-WAO (European Academy of Allergy and Clinical Immunology and World Allergy Organization) Congress, 2013; Venue: 22-26 June, 2013, Milan, Italy
4. Delivered an oral presentation at 17th National Conference of Indian Aerobiological Society on Impact of Airborne Microbes; Venue: 13-15 December, 2012 Pune, Maharashtra
5. Delivered an oral presentation at 5th European Symposium on Aerobiology, 2012; Venue: 3-7 September, 2012, Krakow, Poland.
6. Delivered an oral presentation at 16th National Conference on Aerobiology and National Symposium on Applications of Biotechnology in Environment Management and Medicine; Venue: 19-21 November, 2010, Davangere, Karnataka, India
7. Attended in 100th Indian Science Congress, Kolkata, India on 03.01-07.01.2013.
8. Attended in University Grant Commission (UGC) sponsored National Seminar on "Stress, Drug Development and Nanotechnology" Organized by Bethune College in collaboration with Bose Institute, 2009, Kolkata, India.
9. Attended in International Conference on Biodiversity: "Issues and Concerns", organized by the Biological Sciences Division of the Indian Statistical Institute, 2007, Kolkata.
10. Attended in DST sponsored state level seminar on Biodiversity, Bethune College, 2006, Kolkata, India.

EXTERNAL RESPONSIBILITY (ADMINISTRATIVE RESPONSIBILITIES, IF ANY)

1. Member of NAAC steering committee
2. Member of admission committee
3. Member of exam committee

4. Member of career and counselling committee
5. Member of social and cultural committee
6. Member of website committee