

Title: International Seminar on Microbiology: State of the Art

An International Seminar on 'Microbiology: State of the Art' was held on December 23, 2019 at Sarojini Naidu College for Women. The programme was organised by IQAC and departments of Anthropology, Botany, Molecular Biology and Zoology of Sarojini Naidu College for Women in collaboration with Lincoln University College, Malaysia.

The programme was held in two technical sessions with the invited talks of two eminent scientists- Dr. Debajyoti Bose and Dr. Riddhi Majumder. In addition, there was a paper presentation session by research scholars and faculties in the said subject followed by a presentation on IPR awareness with respect to the microbiology domain. The programme was attended by 75 faculty members and 78 students from Sarojini Naidu College and other colleges under West Bengal State University. The programme was inaugurated by our esteemed Principal, Dr. Urmila Ukil with a green, eco-friendly gesture of watering potted plants instead of the traditional lighting of the ceremonial lamp. Our guest speakers were also provided with potted saplings as mementoes as part of our commitment towards eco-friendly programmes.

Objective: The programme was held with the aim to disseminate state of the art knowledge in industrial microbiology, antibiotics, basic research and to create awareness about the intellectual property rights (IPR), particularly those of patentability of micro-organisms and the biotechnology domain.

Content: Microbes are one of the most pervasive and persistent groups of organisms on Earth. For centuries we have both utilized them for our own benefits and suffered under them as well. Microbes encompass a plethora of organisms and we have made great strides in finding out the nitty-gritty details about what they are, how they work, what sort of role they play in the ecosystem and human health. On one hand, the field of biotechnology has

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advanced on the shoulders of these mini giants to produce clones, human insulin, Crispr-Cas system for gene editing. While on the other hand, we have been engaged in a never ending battle of designing antibiotics and therapeutics against these disease causing pesky intruders. At this seminar, we took stock of how far we have come in our quest to know, utilise and combat the microbes.

Dr. Debajyoti Bose who is the Professor and Head, Department of Biological Sciences, Yobe State University, Damaturu, Yobe State, Nigeria delivered an informative and exhaustive talk on "Industrial microbiology and its Applications". From his lecture we were apprised of the following- Industrial microbiology is primarily associated with the commercial exploitation of microorganisms, and involves processes and products that are of major economic, environmental and social importance throughout the world.

There are two key aspects of industrial microbiology, the first, relates to production of valuable microbial products via fermentation processes. These include traditional fermented foods and beverages, such as bread, beer, cheese and wine, etc. which have been produced for thousands of years. In addition, over the past hundred years or more, microorganisms have been further employed in the production of numerous chemical feedstocks, energy sources, enzymes, food ingredients and pharmaceuticals. The second aspect is the role of microorganisms in providing services, particularly for waste treatment and pollution control, which utilizes their abilities to degrade virtually all natural products and some man-made products.

Dr. Riddhi Majumder who is an Assistant Professor, in the Department of Microbiology, St. Xavier's College, Kolkata delivered an interesting and informative talk on "Can we think beyond antibiotics to regulate microbes?" From the commercial production of antibiotics via microbes to

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multidrug resistance in bacteria and the search for alternative strategies in microbial population regulation, all were discussed by Dr. Majumder elaborately.

During the last leg of the programme, an IPR awareness talk was delivered by Dr. Kaberi Datta who is a faculty of the Department of Zoology, Sarojini Naidu College as well as a registered patent agent with industrial experience. Dr. Datta's talk was entitled "Microbes as Intellectual Property" where she elaborated on the use of microorganisms as subjects of patents, criteria for patentability of microbes and microbial products, bars to patentability under Section 3 of Indian Patent Act as well as the steps that can be taken for safeguarding inventions and filing of patents with the patent office. She also apprised the audience of the use of biotechnological inventions in the patenting regime and the benefits of patenting in the growing knowledge economy.

Outcome: The programme furnished useful information regarding patenting and Intellectual Property Rights, the role of microorganisms in providing services, particularly for waste treatment and pollution control, which utilizes their abilities to degrade virtually all natural products and some man-made products, the commercial production of antibiotics via microbes to multidrug resistance in bacteria and the search for alternative strategies in microbial population regulation and Industrial Microbiology.

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The banner, programme schedule and a few pictures of the seminar are attached herewith.

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**INTERNATIONAL
SEMINAR ON
MICROBIOLOGY: STATE
OF THE ART**

23rd DECEMBER, 2019

Time: 11.30 am

**Venue: Sarojini Naidu College for Women ,
30, Jessore Road, Dum Dum, Kolkata, 700028**

Organized by



IQAC

&

**Departments of Anthropology, Botany,
Molecular Biology and Zoology,
Sarojini Naidu College for Women, Dum Dum,
Kolkata- 700028, West Bengal**

email: sarojininaiducollege@gmail.com

In collaboration with



**Lincoln University College,
Malaysia.**

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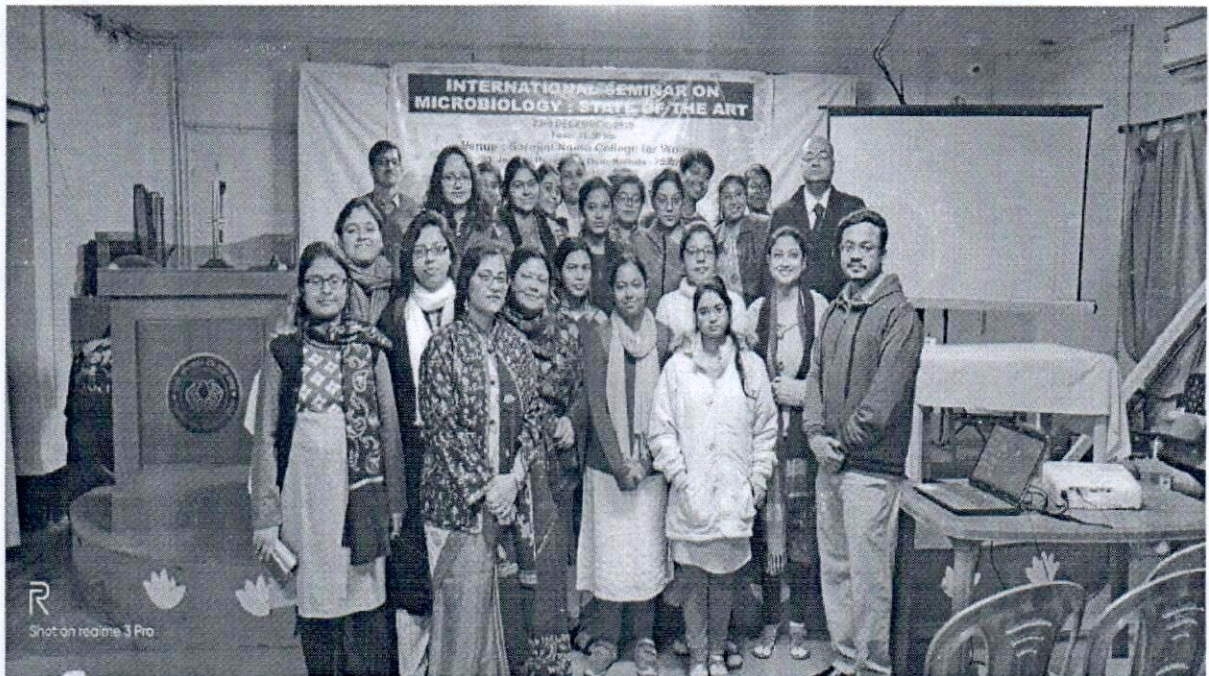
PROGRAM SCHEDULE

11.30a.m.	Inauguration
11.35a.m.	Welcome Address by the Principal
11.40a.m.	Inauguration speech by the Vice Chancellor
12.00-12.40p.m.	Invited Lecture: Dr. Debajyoti Bose <i>"Industrial Microbiology and its Applications"</i>
12.40-01.00p.m.	Paper Presentation Session 1
12.40-12.50p.m.	Asmita Das
12.50-01.00p.m.	Sanghamitra Basu
01.00-01.40p.m.	Lunch
01.40-02.20p.m.	Invited Lecture: Dr. Riddhi Majumder <i>"Can we think beyond antibiotics to regulate microbes?"</i>
02.20-02.50p.m.	Paper Presentation Session 2
02.20-02.30p.m.	Anubhab Laha
02.30-02.40p.m.	Saranya Chakraborti
02.40-02.50p.m.	Kaberi Datta
02.50p.m.	Valedictory session and vote of thanks

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Guests, faculty and students captured in the pictures below



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TEACHER

Microbiology: Stole in the Air

1. M. M. C. C. Dept. of Anthropology - S.N.C.W
2. Sindhu Chakraborty Dept. of Molecular Biology S.N.C.W
3. Sankar Halder Dept. of Engineering Research
4. Supratik Seal Dept. of Zoology, Barrackpore Postgraduate Sarojini Naidu College
5. Anubhas Laha Department of Botany, Chandernagore College
6. Shampa Mondal Dept. of Chemistry, SNCW.
7. Suganya Sarkar Dept. of Botany, SNCW.
8. Pooja Banerjee Dept. of Botany, SNCW.
9. Asmita Das Dept. of Molecular Biology SNCW
10. Sh. Wasim Akram Dept. of Education, SNCW.
11. Sanghamitra Sarkar Dept. of Education, SNCW
12. Saranya Chakraborti Dept. of Environmental Science, SNCW
13. Sujata Roy Dept. of Political Science, SNCW
14. Madhubanjan Dept. of Anthropology, SNCW
15. Sri Sanjay Chakraborty Dept. of Anthropology, SNCW
16. Prantik Handa Dept. of Mathematics SNCW
17. Adebjane Bagchi Dept. of Education - SNCW
18. Soumi Aditya Bandyopadhyay Dept. of Zoology, SNCW
19. Indresh Chakraborty Dept. of Chemistry, SNCW
20. Nivedita Koley Dept. of Zoology. 23/12/19.
21. Barnali Manna Dept. of Zoology. 23/12/19
22. Namrata Shanu Gupta Dept. of Botany SNCW 23/12/19
23. Sanjeev Datta Sarkar - Dept. of Botany SNCW 23.12.19
24. Anindam Mukherjee Dept. of Botany, M.D.M. 23.12.19
25. Paramita Sengupta Dept. of Botany, M.D.M. 23/12/19
26. Biswasupa Ghosh Dept. of Botany, BKC 23/12/19
27. Sanghamitra Basu Dept. of Zoology, 23/12/19
28. Susmita Chakraborty Dept. of Zoology, MDM, 23/12/19
29. Jayashree Das Dept. of Zoology MDM 23/12/19
30. Ullata Bora " " " "
31. Anania Das Dept. of Botany 23/12/19.
32. Reba Majumdar Dept. of Mathematics 23/12/19
33. Dipan Mondal Dept. of Bengali 23/12/19
34. Sankar Bandyopadhyay Dept. of Bengali 23.12.19
35. Kaberi Datta Dept. of Zoology SNCW. 23/12/19.

ATTESTED

Principal Sarojini Naidu College for Women

STUDENT

1. Jyotsna Paul
2. Sarita Nandi
3. Bisha Mitra
4. Jyoti Bhattacharya
5. Jayanti Dey
6. Anurupa Chatterjee
7. Ananya Das
8. Anika Banerjee
9. Anjali Chatterjee
10. Anna Das
11. Anura Khatun
12. Anjali Chatterjee
13. Bisha Dey
14. Jyoti Bhattacharya
15. Susmita Kanda
16. Maitrayee Biswas
17. Ananya Banerjee
18. Barabhatta Podder
19. Rudipta Bhattacharya
20. Riya Dey
21. Farhin Khanam
22. Shubra Nandi
23. Sumitra Sarkar
24. Sumita Dey
25. Susmita Kanda
26. Anita Roy
27. Pratisha Bhattacharya
28. Moumita Paul
29. Rupali Shaha
30. Swagata Das
31. Tuli Deb Nath
32. Sabujsmita Das
33. Anurupa Mitra
34. Anura Khatun
35. Rubina Sarkar
36. Susmita Basak
37. Adya Gha

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38. Sicketa Chakrabarty
39. Debansita Goswami
40. Debapriya Koley
- 41 → Soumi Panja
- 42 → Meupiya Barman
- 43 → Angana Sengupta
- 44 → Dipani Bhowmik
- 45 → Glibani Roy
- 46 → Riya Debnath
- 47 → Bidisha Khorra
- 48 → Chayonika Das
- 49 → Reshmi Ganguly
- 50 → Smriti Das
- 51 → Tania Debnath
52. Nikhat Fatema.
53. Sayanlaxi Saha.
54. Suranda Karmakar.
55. Mithu Saha
56. Ritu Bhattacharya.
57. Keyel Ghosal
58. Dipanwita Bagechi
59. Nabanita Biswas.
60. Prajyanka Sen.
61. Rima Chakrabarty
62. Jagarika Acharya.
63. Prerana Mandal
64. Arpita De.
65. Banma Saha.
66. Rumpa Kundu.
67. Ananya Deb.
68. Sathi Das
69. Pratiti Bhowmik
70. Chandrani Das
71. Ankita Das
72. Raima Dutta.
73. Arpita Das
74. Sumana Kundu.

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- 76. Swishti Chatterjee
- 70. Meghna Das Chowdhury
- 71. Koya Ghosh
- 78. Leblina Paul

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