

ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS), CUDDALORE
PG & RESEARCH DEPARTMENT OF MICROBIOLOGY
ANNUAL REPORT 2022-2023

1. Inaugural Function of Microbiology Association

The PG and Research Department of Microbiology organized the Inaugural Function of Microbiology Association on September 15, 2022. The event commenced with a prayer song at 11:45 AM, followed by a welcome address by Dr. J. Jaya Prakash, Head of the Department.

Dignitaries present:

- Rev. Fr. Secretary
- Dr. M. Arumai Selvam, Principal
- Dr. J. John Arokiaraj, Vice Principal
- Dr. S. Karunakaran, MBBS, DTCD, Deputy Director of Medical Sciences/TB, District TB Centre, Cuddalore



Rev. Fr. Secretary honored the Chief Guest Dr. S. Karunakaran with a Shawl

Dr. M. Parimala Celia introduced the office bearers of the Microbiology Association. The planned activities for the academic year 2022-23 were outlined by Dr. D. John Milton, Assistant Professor. The Chief Guest, Dr. S. Karunakaran, delivered the keynote address, followed by the presidential address by Rev. Fr. Secretary. The event concluded with a vote of thanks by Dr. R. Krishnan, Assistant Professor.

2. Skill Development Programme

A Skill Development Programme was conducted on December 17, 2022, for UG and PG Microbiology students as part of the association's activities. The session began with an introductory talk by Dr. J. Jaya Prakash, Head of the Department.

The guest lecture, titled *Role of Agrobacterium in Transgenesis*, was delivered by Dr. C. Ravinder Singh, Chief Scientist, Research & Innovation, Aakash Plantations L.L.C, Dubai, U.A.E. The event concluded with an interactive session, followed by a vote of thanks by Dr. M. Parimala Celia, Assistant Professor.

3. Student Seminar

The department organized a Student Seminar on January 10, 2023, for PG, III UG, and II UG students.

- Participants:
 - Shift I: 13 students (PG-5, UG-8)
 - Shift II: 5 students (UG-5)
- Topics Covered:
 - Hypersensitivity
 - Biofertilizer
 - Transposons
 - Downstream Processing
 - Zoonotic Diseases
 - Food Preservation
 - Bioremediation
 - Pandemic Disease Outbreaks

The seminar was judged by Dr. R. Krishnan and Dr. C. Swaminathan. Students were evaluated based on PowerPoint preparation, presentation skills, and Q&A performance. Prizes were awarded for the best presentations.

4. Bio-Exhibition

A Bio-Exhibition was conducted on March 1, 2023, for UG and PG students.

- Participants:
 - Shift I: 30 students (PG-14, UG-16)
 - Shift II: 14 students (UG-14)
- Topics Covered:
 - Winogradsky's Column
 - Bioremediation
 - Greenhouse Effect
 - Fermentor Design
 - Viral Structure
 - Bacterial Structure
 - Transgenic Plants & Animals
 - Lab Instruments & Microscopes
 - DNA Structure
 - Biogas Plant
 - Mushroom Cultivation
 - Biofertilizers
 - Gene Expression
 - Immunology Experiments
 - Microbial Genetics Experiments

The event was organized by Dr. M. Parimala Celia, with Dr. T. Ganesh Kumar (Department of Zoology) and Dr. R. Krishnan as judges. Students were evaluated based on model preparation and presentation. Prizes were awarded for the best models.

5. Valedictory Function

The Valedictory Function of the Microbiology Association was held on April 21, 2023, at 11:30 AM in Rev. Fr. Paul Raj Kumar Hall for Shift I students. The Chief Guest, Dr. K. M. Kumar, Associate Professor, Department of Bioinformatics, Pondicherry Central University, delivered a lecture on *Recent Advances in Bioinformatics Technologies in Biosciences*.

- Welcome Address: Dr. J. Jaya Prakash
- Chief Guest Honored By: Head of the Department
- Association Report Presented By: Dr. M. Parimala Celia

- Prize Distribution: Winners of Student Seminar and Bio-Exhibition received awards from the Chief Guest
- Valedictory Address: Delivered by the Chief Guest
- Vote of Thanks: Dr. D. John Milton, Assistant Professor

Conclusion

The academic year 2022-23 was an eventful year for the PG and Research Department of Microbiology. With educational initiatives, research opportunities, skill development programs, and competitions, students had a well-rounded experience. The department looks forward to continuing its tradition of academic excellence.