

**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 the Microbiology Association and introduced the office bearers for the academic year 2022-23 on 15th September 2022 at 11:45 AM. The program commenced with a prayer song, followed by a welcome address by Dr. J. Jaya Prakash, Head, PG & Research Department of Microbiology.

The dignitaries on the dais included:

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

The office bearers of the Microbiology Association were introduced by Dr. M. Parimala Celia, Assistant Professor:

- M. Jayalakshmi (II PG) - Association Secretary
- D. Puvivendhan (I PG), R. Abhinash (III UG), S. Vivek Rajan (II UG), P. Easwarraj (I UG), V. Dhanasri (III UG), R. Faiyasa Parvin (II UG), and B. Elakkiya (I UG)

Following a photo session, Dr. D. John Milton, Assistant Professor, elaborated on the association activities for the academic year. The Presidential Address was delivered by Rev. Fr. Secretary, and the Keynote Address was given by Dr. S. Karunakaran. The event concluded with a vote of thanks by Dr. R. Krishnan, Assistant Professor.

**2. Skill Development Programme**

On 17th December 2022, a Skill Development Programme was conducted as part of the Association activities for UG and PG Microbiology students. The event began with an introductory talk by Dr. J. Jaya Prakash.

The guest lecture on "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., using a PowerPoint presentation. After the lecture, he interacted with students. The event concluded with a vote of thanks by Dr. M. Parimala Celia.

**3. Student Seminar**

A Student Seminar for PG, III UG, and II UG Microbiology students was held on 10th January 2023.

- Shift-I: 13 students (5 PG, 8 UG)

- Shift-II: 5 students (UG)

The seminar topics included:

- Hypersensitivity
- Biofertilizers
- Transposons
- Downstream Processing
- Zoonotic Diseases
- Food Preservation
- Bioremediation
- Pandemic Disease Outbreaks

The event was introduced by Dr. M. Parimala Celia, with judges Dr. R. Krishnan and Dr. C. Swaminathan evaluating students based on PowerPoint preparation, presentation, and answering skills. Prizes were awarded for the best presentations.

#### **4. Bio-Exhibition**

The department hosted a Bio-Exhibition on 1st March 2023 for PG and UG students.

- Shift-I: 30 students (14 PG, 16 UG)
- Shift-II: 14 UG students

Students participated in pairs and presented on topics including:

- Winogradsky's Column
- Bioremediation
- Greenhouse Effect
- Fermenter Design
- Viral & Bacterial Structures
- Transgenic Plants & Animals
- Lab Instruments & Microscopes
- DNA Structure
- Biogas Plant
- Mushroom Cultivation
- Biofertilizers
- Lymphoid Organs
- Gene Expression
- Experiments in Immunology & Microbial Genetics

The event was coordinated by Dr. M. Parimala Celia and judged by Dr. T. Ganesh Kumar (Department of Zoology) and Dr. R. Krishnan (Microbiology Department). Prizes were awarded for the best models.

#### **5. Valedictory Function**

11:30 AM in Rev. Fr. Paul Raj Kumar Hall.

Chief Guest:

- Dr. K. M. Kumar, Associate Professor, Department of Bioinformatics, Pondicherry Central University

The event commenced with a prayer song, followed by a welcome address by Dr. J. Jaya Prakash. The Chief Guest was honored with a shawl and a memento by the Head of the Department. Dr. M. Parimala Celia presented the Association Report, and prizes for Student Seminars and Bio-Exhibitions were distributed by the Chief Guest.

Dr. R. Krishnan introduced the Chief Guest, who then delivered a valedictory address on "Recent Advances in Bioinformatics Technologies in Bioscience". The function concluded with a vote of thanks by Dr. D. John Milton.

### **Conclusion**

The PG & Research Department of Microbiology has successfully conducted various academic and extracurricular activities during the year 2022-2023, promoting student engagement, skill development, and scientific inquiry.