

PES Modern College of Arts, Science and Commerce, Ganeshkhind, Pune
Department of Microbiology
Annual Report 2020-21

The department of Microbiology believes in establishing a culture of excellence in academics and research. It provides maximum exposure to the students and staff members by means of organizing guest lectures, educational visits, workshops, seminars, symposia, encouraging participation in research projects, science exhibition and competitions for developing the students in every aspect. As a result our alumni are well placed in national and international research institutes, laboratories and industries.

Microbiology department organized the following activities for UG and PG students:

1. **International Webinar** on 'Molecular techniques used in the field of life sciences' where the speakers were Dr. Nikhil Bharambe, Postdoctoral research scholar, Department of Physiology and Biophysics, Case Western Reserve University, Cleveland, Ohio, USA and Dr. Priyanka Devi-Marulkar, International Medical Affairs, Assistant Manager, Department of Medical Affairs, Servier, Suresnes, France on 5.2.2021, 6.2.2021 and 9.2.2021.
2. Designed and implemented an **extra credit course (1 credit: 10 hours) on: Soil Dynamics: Physicochemical and Microbial.**
3. **Guest lectures under DBT STAR scheme:**
 - a. 'Introduction to IPR with special reference to process of filing Indian Patent', by Dr. Sangeeta Telang, IPR consultant, Ex-Scientist at CSIR-URDIP, Ex-Scientist at Mitra RxDx Pvt. Ltd. On 10th February, 2021.
 - b. 'Effect of pollutants such as pesticides on embryo', by Dr. Vikram Ghole, Coordinator (Scientific), Academic Cell, National Institute of Virology, Pune on 16th January, 2021.
 - c. 'Opportunities and skills required to excel in a food industry', by Mrs. Medha Kulkarni, Manager, D & A, Doehler India Pvt. Ltd. On 27th February, 2021.
 - d. 'How to do Science, how to select and carry out research in a particular area and about insights drawn therein', by Dr. Yogesh Shouche, Principal Investigator, NCCS-NCMR on 23rd March, 2021.
4. **Alumni Interactions:**
 - a. 'Welcome to the world of IVF', by Ms. Sayali Palnitkar, Senior Embryologist, Cloudnine Group of Hospitals, on 20th February, 2021.
 - b. 'Current Opportunities in Life Sciences', by Mr. Gaurav Gunjal on 26th February, 2021.
 - c. Mr. Mihir Thatte, Vaintey Chem Products Limited conducted lectures for the extra credit course (1 credit: 10 hours) on : Soil Dynamics: Physicochemical



and Microbial, in Feb. 2021.

d. Mrs. Pranitha Pandit, Ph.D student, Agharkar Research Institute, Pune conducted lectures for the **extra credit course** (1 credit: 10 hours) on: Soil Dynamics: Physicochemical and Microbial, in Feb. 2021.

e. Ms Priya Vaswani, The Wishing Factory (an NGO): '**Thalassemia, its prevention and blood donation**', on 1.05.21 for UG and PG students.

f. Dr. Priyanka Devi-Marulkar, International Medical Affairs, Assistant Manager, Department of Medical Affairs, Servier, Suresnes, France, spoke during the International webinar on 'Evolving Molecular techniques in Immunology', on 9.02.2021.

Participation of staff members:

1. Courses done by staff members:

a. Microbiology department staff members successfully completed two faculty development programs conducted by PES Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-16: on Moodle LMS training and on Econtent development for online teaching, held during April 2020 and 25-30 June 2020 respectively.

b. Dr. Ashwini Kulkarni completed the 'Online course on Vaccine Development-Basics, pitfalls and trouble shooting', jointly organized by Pune Knowledge Cluster and Serum Institute India Pvt Ltd, Pune, from 15th January to 5th February, 2021.

2. Syllabus revision design and implementation workshops for SYBSc, TYBSc and MSc II were attended by the staff members.

3. Online webinars attended:

a. International conference, 'Proceedings in life sciences', by Dr. Ashwini Kulkarni on 1st and 2nd March, 2021.

b. National webinar on Bioentrepreneurship by Dr. Ashwini Kulkarni on 28th January, 2021

c. National webinar on 'Covid Vaccine: Truth and Untruth Unfold', by Dr. Ashwini Kulkarni on 27th to 30th January, 2021.

d. "Game Theory: Applications in Biology and in A Pandemic" organised under MANAV: Human atlas Initiative, by Dr. Gauri Phadke on 11th June 2020.

e. 'The Genome Taxonomy database (GTDB)- Lessons learned', by Prof. Philip Hugenholtz, Director, Australian Centre for Ecogenomics, The University of Queensland, Australia, organized by Bergey's International Society for Microbial Systematics on 20th March, 2021.

f. 'Small Challenges Big Rewards (BRNS Popular Science Lecture Series)', by Prof. Smita Zinjarde, Director, IBB, SPPU, organized by IWSA, Modern College Shivajinagar and Modern College Ganeshkhind, Pune on 15th March, 2021.



- g. 'Hypothetical Project-Concept to Completion' by Prof. Smita Zinjarde, Director, IBB on 19.05.2021.
- h. 'Power of Positivity', by Dr. Gayatri Shrotriya, Chemistry dept, Modern College, Ganeshkhind, Pune.
4. **Mentor-mentee meetings** were conducted in Jan 2021 and May 2021.
5. **Parent -teacher meetings** were conducted in Jan 2021.

Staff achievements:

1. Sonali Goyal- Received **First prize** of best presentation in Teacher's category, in **National level competition**, Microbiopodium organized by Govt. Institute of Science, Aurangabad.
2. **Staff members were resource persons/ guest speakers for the following programs:**
 - a. Dr. Gauri Phadke spoke on 'Opportunities in Microbiology', for students of Dapoli Urban Bank's Senior Science College, Dapoli on 26th February, 2021.
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 - b. Dr. Ashwini Kulkarni spoke on 'Bioremediation of wastewater using microorganisms', for students of SES SNBP College of Arts, Science and Management Studies, Morwadi, Pimpri, Pune-18, on 18Th January, 2021.
 - c. Dr. Ashwini Kulkarni spoke on 'Safety in Life Science Laboratory', in the workshop on 'Safety in laboratories', conducted by Dept of Physics, PES Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-16 for non-teaching staff members, on 16th January, 2021.

Students Achievements:

A) NET/SET/GATE qualification:

- a. Rutuja Sawant (MSc II-2019-20): GATE 2021.
- b. Shovik Mal (MSc II-2020-21): GATE 2021.

B) UG and PG Students participated in **national level competition**

Microbiolympiad and other competitions organized by Govt. Institute of Science, Aurangabad.

- a. Aishwarya Chaudhari (M.Sc.) won acclaim in MicrobioCanvas competition.
- b. Amulya Parab (SYBSc) won acclaim in MicrobioSlate competition.
- c. Jwalanthi Sundaram (TYBSc) scored 70/100 in Microbiological Quiz.
- d. UG students who qualified Microbiolympiad.: Ms. Amulya Parab, Ms. Shruti Rokade, Ms. Jwalanthi Sundaram, Shruti Kasote
- e. PG students who qualified Microbiolympiad.: Ms. Siddhida Aphale, Ms. Aishwarya Chaudhary, Ms. Rani Chivhe, Mr. Shovik Mal

C) Other achievements:

- a. Vinay Naik (M.Sc. II) Selected as 'Member of Maharashtra State Team', for the **National Level**, 25th National Road Cycling Tournament under 'India Made Category'.



- b. Jwalanthi Sundaram T.Y.B.Sc, won the 'Third Prize in Inter-Collegiate Level Poetry Competition under Science: beyond Bias and Barriers, Organized by PDEA's Annasaheb Magar College, Pune On the occasion of 'International Women's Day', 8.03.2021.
- c. Dhanashree Kulkarni (TYBSc) won the **Best Sketch award at Inter-Collegiate Level for Pencil sketching competition on Animal Sketches** Organised under DBT STAR College activity Zoo Fest by Department of Zoology, Ramniranjan Jhunjhunwala College of Arts, Science and Commerce, Ghatkopar, Mumbai on 10th October 2020.
- d. UG and PG students successfully completed SWAYAM/ NPTEL courses.

Social cause and support-

Mrs. Sneha Ogale:

- a. Donation of 1000 US Dollars to **The Rotary Foundation** which will be used for executing projects in seven areas of focus and all over the world. So, there was contribution to various community projects world over.
- b. Donation of Rs 70000/- during the Rotary Year 2020- 21 to **Rotary Club of Pune South Charitable Trust**. This immensely helped Rotary Club of Pune South to execute important projects. The funds were utilized in following projects to name a few.:
- i. Improving the local green cover with Tree Plantation Drive at Village Chambli, Saswad
- ii. Donation of a Cow to a needy farmer at Shenwad village in Velhe Taluka. This will help the family get additional source of income and milk for the children at home.
- iii. Execution of Sunder Gharkul Competition at Village Kumbale and evaluation and education of the local people to keep their homes, areas and village clean and take care of health and hygiene.
- iv. Donation towards Plasma donation and attending the Visit to Blood Donation
- v. Donation to Tarachand Hospital towards Oxygen requirements during these Covid pandemic times
- vi. Donation for School Education program and for providing Donation of two posters 1) Modern Periodic table and 2) display of how to do proper hand sanitization to Nutan Bal Vikas Mandir by Rotary Club of Pune South.
- vii. Donation for Sadbhavana Medical camp for beneficiaries of Jammu & Kashmir people in association with Indian Army and Medical camps for orphan girls of **Borderless World Foundation**.
- Thanks for your volunteering work in various projects and active participation.



Principal
Modern College of Arts, Science
& Commerce, Ganesh Khind,
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Sneha Ogale

HEAD
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