

PES Modern College of Arts, Science and Commerce, Ganeshkhind, Pune
Department of Microbiology
Annual Report 2017-18

• **Workshops/Skilled based course/Seminars**

1. A **skilled based certificate course** on 'Quality Control in Laboratories and Industries' was conducted between 19/6/17 to 4/7/17 for 35 SYBSc and TYBSc students.
2. A **Hands-On Training Workshop** on 'Isolation and Enumeration of Bacteriophages' was conducted under DBT-STAR college scheme between 4/1/18 to 6/1/18 for under-graduate students. Thirty-four UG and two PG students of Modern College, Ganeshkhind, H.V.Desai College, D.Y.Patil ACS College, Mahatma Phule Mahavidyalaya and Abeda Inamdar Senior College participated in the workshop along with two staff members from Abeda Inamdar Senior College and D.Y.Patil ACS College.
3. **Workshop** was conducted under **Board of Students' Development, SPPU** on 'Life skills, Goal setting and Stress management' on 12/2/18 for 41 UG students and 56 PG students from Modern College, Ganeshkhind. In addition 14 students from Mahatma Phule Mahavidyalay, Sinhadgad College of Science, Ambedkar College, Appasaheb Jedhe College and Arihant Junior College also attended the workshop.

• **Educational and Industrial Visits:**

- 1) SYBSc. students visited Dairy, Borgaon, Satara on 22/08/17. They got information on Milk Processing and effluent treatment plant.
- 2) TYBSc. students visited Sula Wines, Gangotri Mineral Museum, Nashik on 18/08/17 and 19/08/17 . They got information on wine making, processing and quality control test.
- 3) TYBSc. students visited Janakalyan Rakta Pedhi on 26/02/18. They were shown functioning of a Blood Bank.
- 4) TYBSc. students visited Institute of Applied Biological Research and Development on 14/02/18. They got exposure to recent techniques such as Flow Cytometer, PCR and Western Blotting.
- 5) MSc I students visited National Centre for Cell Science, S.P.Pune University Campus by on 28/02/18. They were shown Fluorescence-activated cell sorting (FACS) and Confocal Microscopy.
- 6) MSc I students visited Agharkar Research Institute on 9/03/18. They were shown Molecular Biology laboratory, anaerobic techniques and instrumentation like anaerobic glove box, gassing manifold, gas chromatography.



- 7) MSc I students visited National Centre for Microbial Resource - NCCS by on 12/03/18. They were shown instruments like Lyophilizer, FAME, HPLC, MALDI-TOF, PCR, Electrophoresis, Next Generation Sequencing technologies and Mycology unit.
- 8) MSc II students visited PMC's Sewage Treatment Plant, near Dr. Naidu Hospital, Pune on 27/09/2017 to see its functioning.
- 9) MSc II students visited Institute of Applied Biological Research and Development (IABRD), Pune on 14/10/2017. They were shown FACS, Western Blot, and Animal Tissue Culture.

- **Guest lectures:**

- **Lectures organized by Microbiology Dept, MCASC, GK:-**

- 1) **Prof. Patricia Vit, Universidad de Los Andes, Merida, Venezuela** delivered a lecture on 'Distinctive nest entrances and microbiota with biotechnological interest in stingless bee (Meliponini)' on 30/08/2017. TYBSc, MSc I, MSc II and Siddhivinayak college (TYBSc) students attended the lecture.
- 2) **Dr. Nikhil Bharambe, Postdoctoral Research Scholar, Case Western Reserve University, Cleveland, Ohio, USA** delivered lectures on 'Glimpse of Structural biology' on 07/08/2018; 'Substrate specificity determinants of class III nucleotide cyclases and on How to prepare for competitive exams and interviews' on 08/08/2018. TYBSc, MSc I and MSc II students attended the lectures.
- 3) **Dr. Santosh Sutar, Assistant Director/Assistant Professor, Yashvantrao Chavan School of Rural Development, Shivaji University, Kolhapur** delivered lectures on 'Non-parametric tests (Run test, Sign test, Wilcoxon's signed Rank test, Mann-Whitney test) and its problem solving' on 06/10/17 and 07/10/17. MSc I students attended lectures.
- 4) **Mr. Gaurav Godse, Safety Officer, Suzlon company** delivered a lecture on 'Fire safety' for MSc II students on 15/03/18.
- 5) **Dr. Shrikant Pawar and Shreyas Kumbhare (NCMR- NCCS)** delivered a lecture on 'Importance of Bioinformatics in Life Sciences' for MSc I and MSc II students on 21/08/2018.
- 6) **Mr. Rohit Joshi, Junior Editorial Associate, Crest Pre media Solutions (Springer - Nature group)** delivered a lecture on 'In ovo cultivation of viruses (Egg Inoculation Technique)' for TYBSc and MSc I students on 10/03/2018.
- 7) **Mr. Ojas Kaduskar, NIV** delivered a lecture on 'Biosafety - Principles and Practices' for MSc II students on 10/3/18.



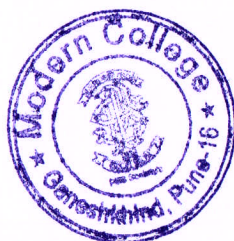
- 8) **Dr. Suvarna Bobade Assistant Counselor, Department of Psychology** delivered a lecture on 'How to improve Study Skills' for TYBSc and MSc II on 21/07/2017.
- 9) **Shweta Inamdar, Senior Research Associate, Product Development R&D Group, Illumina Headquarters, San Diego, USA)** delivered a lecture on 'Applications of NGS Technologies' and **Vishal Phalke** delivered a lecture on 'Application of microbiology in waste management ' for TYBSc, MSc I and MSc II students on 06/01/2018.
- 10) **Mr. Pranav Pande** (PhD student, INRS, Canada) delivered a lecture on 'Opportunities available and how to apply abroad for MS and PhD' for TYBSc and MSc I students on 29/12/2017.
- 11) **Manali Mahajan and Shruti Goradiya (MS in Molecular Biology, Adelphi University, New York)** delivered a lecture on 'How to apply abroad for PhD' for MSc II students on 01/08/2017.
- 12) **Mr. Abhijeet Kulkarni, PhD student, NCMR-NCCS** delivered a lecture on 'Scope beyond M.Sc Microbiology (Research and Industries) and How to appear for entrance exams with special reference to JGEEBILS' for TYBSc, MSc I and MSc II students on 27/07/2017.
- 13) **Ms. Unmesha Thanekar, MS- Ph. D student (Pharmacology and Toxicology), Wright State University, Ohio, USA** delivered a lecture on 'Importance of research and publications for PhD applications' for MSc II students on 29/07/2017.
- 14) **Ms Krutika Lonkar, Project Assistant, Innovation Biologicals Pvt. Ltd. NCL, Venture centre** delivered a lecture on 'Scope of Microbiology' for SYBSc and TYBSc students attended lecture by on 18/07/2018.

➤ **Lectures attended under DBT Star College Scheme:-**

- 1) **MSc II** students attended lecture by **Dr. B.D. Bhole** on 'Main aspects of Industrial Biochemical engineering, Designing and operation of bioreactors' on 14/09/2018 organized by Biotechnology Dept, MCASC, GK.

➤ **Lectures organized by Placement Cell of the college:-**

- 1) **MSc II** students attended lecture by **Sunita Sharma** on 'How to face Interviews' on 18/07/18 in the Microbiology Dept, MCASC, GK.
- 2) **MSc I and MSc II** students attended lecture by **Mr. Minochar Patel, Corporate Speaker** on 'Ordinary to Extraordinary' on 11/08/2017 in the Microbiology Dept, MCASC, GK.



- **Lectures organized by Institutes/ Departments of other colleges:-**
- 1) MSc I and MSc II students attended lecture by **Dr. Vineet Ahuja (AIIMS)** on 'Gut Microbiome and Inflammatory Bowel Disease' on 31/07/2017 at NCMR.
 - 2) MSc I students attended lecture by **Dr. Narayan Puneekar, Biotechnology group, IIT Powai**, on 'What I want from Research' on 19/08/2018 at 118th Saturday meet organized by Microbiology Department, SPPU.
 - 3) Under 'The 2017 Nobel Prizes: A Curtain Raiser to the Award Ceremony', organized by NCCS on 4/12/2017, TYBSc students attended lectures delivered by
 - i. **Dr. Janesh Kumar (NCCS Scientist)** on 'Making the invisible visible. The power of cryo-electron microscopy',
 - ii. **Dr. Amitabh Majumdar (NCCS Scientist)** on 'Tick-tock the circadian clock' and
 - iii. **Prof. Sanjeev Dhurandar (Emeritus Prof. IUCAA)** had delivered lecture on 'And the Nobel Prize in Physics 2017 goes to gravitational waves'.
 - 4) TYBSc and MSc I students attended lecture by **Mr. Shreyas Kumbhare, Ph. D Student, NCMR-NCCS, Pune** and **Abhijeet Kulkarni, Ph. D Student, NCMR-NCCS, Pune** on 'Microbial Science Outreach Initiative' on 19/12/2017 at NCMR, Pune.
 - 5) MSc I students attended lecture by **Dr. Amit Ghosh** on 'Creativity and Life in Sciences' on 08/02/2018 at NCCS, Pune.
 - 6) MSc I students attended lecture by **Dr. Y.S. Shouche, Scientist G, NCMR-NCCS** on 'NGS and various sequencing techniques' on 12/03/18 at National Centre for Microbial Resource - NCCS.

• **Competitions**

- 1) A total of 54 undergraduate students participated in the 17th State level Microbiolympiad organized by R.C.Patel College, Shirpur in association with Modern College ACS, GK, Pune and in collaboration with AMI on 9th January 2018. Among the various competitions were:-
 - a. **Microbiological Contest** in which 18 FY, 17 SY and 19 TYBSc students participated.
 - b. **Microbio- Slate** in which 1 TYBSc student participated
 - c. **Microbio Canvas** in which 1 FY, 1 SY and 3 TYBSc students participated



2) Two MSc II students participated in National level Agar Art Contest organized by Faculty of Microbiology and Biochemistry, Department of Zoology, St Berchmans College, Kerala on 20th November 2017.

- **Alumni meet**

Alumni meet was arranged on 13th January, 2018. A total of 37 alumni attended the meet.

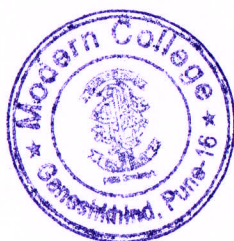
- **Social activities of Staff Members of Department of Microbiology:**

1. Contributed Rs. 7000/- to The Thalassemia Society, Pune Chapter, Pune
2. Contributed Rs. 1000/- to Jagruti Blind Girls School, Vadgaon, Pune
3. One of the staff members contributed Rs. 5000/- for the welfare of an alumnus.
4. Contributed to Corpus Fund of the college for giving loan scholarship to financially needy students of the college.

- **Staff achievements:**

Mrs. Sneha Ogale:

- 1) Participated as subject expert on Selection Committee (appointed by SPPU) for selection of Assistant Professor at Sarvodaya Sangh's Padmashree Manibhai Desai College, Uruli Kanchan on 9/6/17.
- 2) Participated as Resource Person and member organizing Committee for Skill development certificate course, 'Quality Control in Industries and Laboratories', From 19/6/17 to 4/7/17, for SY and TY Microbiology students.
- 3) Participated in UGC sponsored Faculty Development program from 23/6/17 to 14/7/17 at MCASC, GK.
- 4) Participated in Rotary Club Tree plantation (Nakshatra Van) drive on 9/7/2017.
- 5) Attended and coordinated DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages' on 4th, 5th, 6th January, 2018 at Microbiology Dept, MCASC, GK.
- 6) Attended and coordinated Workshop on 'Life Skills, Goal Setting and Stress Management' on 12th February, 2018 at Microbiology Dept, MCASC, GK.
- 7) Attended Science academies' lecture workshop on "Understanding and exploring the interfaces between Biology and Biotechnology" between November 1-3 2017.
- 8) Presented two Posters in National Conference on "Ingenious Trends In Life Sciences" organised by Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune-411001 on 6th and 7th October, 2017.



- 9) Received **Third Prize** for Poster Presented at National Conference on "Chemical Sciences: A interdisciplinary Approach" organised by Department of Chemistry, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 18th to 20th January 2018.
- 10) Received **First Prize** for Poster Presented at International Conference on "Recent trends in Life Sciences" organized by Department of Zoology, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 2nd and 3rd February 2018.
- 11) **Chaired one session and was in-charge of Poster session in** International Conference on "Recent trends in Life Sciences" organized by Department of Zoology, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 2nd and 3rd February 2018.
- 12) Published three papers in Peer reviewed International Journals.
 - a. Ogale Sneha, Yadav Karan Singh and Navale Shrutika (2018). Screening of endophytic bacteria from the pharmacologically important medicinal plant *Gloriosa superba* for their multiple plant growth promoting properties. The Pharma Innovation; 7(1): 208-214.
 - b. Ogale Sneha, Joshi Nikhil, Sukhatankar Aishwarya and Manani Priyanka (2018). Optimization Of Chitinase Production By Bacteria From Novel Endophytic Niche Of *Gloriosa Superba* And Soil Of North-Western Region Of India. World Journal of Pharmaceutical Research; 7(4): 133-144.
 - c. Ogale Sneha, Kulkarni Aditi, Nichit Sonali and Shah Divya (2018). Screening Of Endophytes Of *Gloriosa Superba* For Their Plant Growth Promoting Potential And Optimization Of Indole-3-Acetic Acid Production. World Journal of Pharmaceutical Research; 7(4): 156-171.
- 13) **Life member** of Association of Microbiologists India.
- 14) **Life member** of Society of Biological Chemists (India).

Mrs. Anupama Sonawane:

- 1) Presented Poster at International Conference on "Recent trends in Life Sciences" organized by Department of Zoology, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 2nd and 3rd February 2018.

Dr. Mrs. Neelima Kulkarni:

- 1) Attended Science academies' lecture workshop on "Understanding and exploring the interfaces between Biology and Biotechnology" between November 1-3 2017.



- 2) Participated as Resource Person and member organizing Committee for Skill development certificate course, 'Quality Control in Industries and Laboratories', From 19/6/17 to 4/7/17, for FY and SY Microbiology students.
- 3) Participated in UGC sponsored Faculty Development program from 23/6/17 to 14/7/17 at MCASC, GK.
- 4) Oral Presentation at National Conference on "Chemical Sciences: A interdisciplinary Approach" organised by Department of Chemistry, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 18th to 20th January 2018.
- 5) Presented Poster at International Conference on "Recent trends in Life Sciences" organized by Department of Zoology, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 2nd and 3rd February 2018.
- 6) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management' on 12th February, 2018 at Microbiology Dept, MCASC, GK.
- 7) **Chairperson:** Result analysis Committee.
- 8) **Chairperson:** NAAC criterion II Committee.
- 9) **Member** of F.Y. BSc. Admission committee.
- 10) **Member** of Research committee.
- 11) **Life member** of Association of Microbiologists India.
- 12) **Life member** of Society of Biological Chemists (India).
- 13) **Publication in peer reviewed journal:**
 - 1) Neelima Kulkarni, Tejashree Vaidya, Gunjan Rathi (2018) Optimization of cellulase production by *Aspergillus* species under solid state fermentation. The Pharma Innovation; 7(1): 193-196.

Mr. Prasad Deshmane:

- 1) Chair person - Arts Circle
- 2) Attended and was a member of organizing committee for DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages' on 4th, 5th, 6th January, 2018 at Microbiology Dept, MCASC, GK.
- 3) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management' on 12th February, 2018 at Microbiology Dept, MCASC, GK.

Dr. Kavita Parekh:

- 1) **Life member** of Association of Microbiologists India.
- 2) Member of Placement Cell.



Dr. Sougata Ghosh:

Book :

Ghosh S., Chopade B. A. (2017). *Dioscorea bulbifera: A model system in nanobiotechnology and medicine.* LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany. ISBN: 978-3-330-05529-2.

Book Chapter :

- 1) Kale S.N., Kitture R., **Ghosh S.,** Chopade B.A., Yakhmi J.V. (2017) Nanomaterials as enhanced antimicrobial agents/activity enhancer for transdermal applications: A review. *Antimicrobial Architectonics From Synthesis to Applications.* Elsevier Inc. Amsterdam, Netherlands.
- 2) **Ghosh S.,** Sanghavi S., Sancheti P. (2017) Metallic biomaterial for bone support and replacement. *Metallic Biomaterials. Vol 2.* Elsevier Inc. Amsterdam, Netherlands.
- 3) **Ghosh S.** (2017) Mesoporous silica based nano drug delivery system synthesis, characterization and applications. *Nanoscience and Nanotechnology in Drug Delivery.* Elsevier Inc. Amsterdam, Netherlands.
- 4) Kitture R., **Ghosh S.** (2017) Hybrid nanostructures for *in-vivo* imaging. *Hybrid Nanostructures for Cancer Theranostics.* Elsevier Inc. Amsterdam, Netherlands.

Publications (Total citations : 1018; h-index : 17; i10-index : 25) :

1. Shinde SS, Joshi KA, Patil S, Singh S, Kitture R, Bellare J, **Ghosh S** (2018) Green synthesis of silver nanoparticles using *Gnidia glauca* and computational evaluation of synergistic potential with antimicrobial drugs. *World Journal of Pharmaceutical Research.* 7(4): 156-171.
2. Kulkarni S, Yerwa S, Thakkar B, **Ghosh S** (2018) Petroleum contaminated soil as rich source of bioemulsifier producing *Enterobacter cloacae*. *World Journal of Pharmaceutical Research.* 7(4): 173-182.
3. Bhagwat TR, Joshi KA, Parihar VS, Asok A, Bellare J, **Ghosh S** (2018) Biogenic copper nanoparticles from medicinal plants as novel antidiabetic nanomedicine. *World Journal of Pharmaceutical Research.* 7(4): 183-196.
4. Luikham S, Malve S, Gawali P, **Ghosh S** (2018) A novel strategy towards agro-waste mediated dye biosorption for water treatment. *World Journal of Pharmaceutical Research.* 7(4): 197-208.
5. Lawande PP, Sontakke VA, Kumbhar NM, Bhagwat TR, **Ghosh S,** Shinde VS. (2017) Polyhydroxylated azetidone iminosugars: Synthesis, glycosidase inhibitory activity and molecular docking studies. *Bioorganic and Medicinal Chemistry Letters.* 27(23): 5291-5295.



6. Rokade SS, Joshi KA, Mahajan K, Tomar G, Dubal DS, Parihar VS, Kitture R, Bellare J, **Ghosh S** (2017) Novel anticancer platinum and palladium nanoparticles from *Barleria prionitis*. *Global Journal of Nanomedicine*. 2(5): 555600.
7. Shende S, Joshi KA, Kulkarni AS, Shinde VS, Parihar VS, Kitture R, Banerjee K, Kamble N, Bellare J, **Ghosh S** (2017) *Litchi chinensis* peel : A novel source for synthesis of gold and silver nanocatalysts. *Global Journal of Nanomedicine*. 3(1): 555603.

International conference presentations abroad :

1. **Ghosh S**. Magnetic nanoparticles functionalized with saponin as novel nanomedicine against breast cancer. 30th and 31st October, 2017. 13th Indo-Australian Biotechnology Conference, Queensland University of Technology, Brisbane, **Australia**.
2. **Ghosh S**. Phytogetic platinum and palladium nanoparticles as novel anticancer nanomedicine. 22nd to 26th May, 2017. International Conference for Physical, Life and Health Sciences, Harvard Medical School, 77 Avenue Louis Pasteur, Boston, Massachusetts, **U.S.A.** (Speaker-Oral presentation)

Conference presentations (guided/presented) in India :

- 1) Sarkar B, Pawar M, Lonkar S, **Ghosh S**. Biotechnological applications of detergent degrading bacteria isolated from *Sapindus mukorossi* in bioremediation. 15th and 16th December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's Arts, Commerce & Science College, Narayangaon, Pune. (Poster presentation) pp. 46.
- 2) Jamdade D, Waghole S, Phulwade A, **Ghosh S**. Diosgenin from *Dioscorea bulbifera* as a potent antidiabetic bioactive principle. 15th and 16th December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's Arts, Commerce & Science College, Narayangaon, Pune. (Poster presentation) pp. 41.
- 3) Rajpali D, Gaikwad V, Satav S, **Ghosh S**. Diosgenin conjugated magnetic nanomedicine as promising apoptotic inducers in breast cancer cells. 15th and 16th December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's Arts, Commerce & Science College, Narayangaon, Pune. (Poster presentation) pp. 44.
- 4) Pawar P, Bambole A, **Ghosh S**. Antibiofilm and antileishmanial activity of phytogetic Au_{core}Ag_{shell} nanoparticles. 15th and 16th December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's Arts, Commerce & Science College, Narayangaon, Pune. (Poster presentation) pp. 54.



- 5) Gawali PP, Thorat NN, **Ghosh S.** Potential bioemulsifier producing bacteria from petroleum contaminated soil. 15th and 16th December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's Arts, Commerce & Science College, Narayangaon, Pune. (Poster presentation) pp. 52.
- 6) Shinde SS, Satish S, **Ghosh S.** Enhanced bactericidal synergy of drug with silver nanoparticles synthesized by *Gnidia glauca*. 15th and 16th December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's Arts, Commerce & Science College, Narayangaon, Pune. (Poster presentation) pp. 61.
- 7) Shende S, **Ghosh S.** Green synthesis of novel Pt-PdNPs with anticancer and antioxidant potential. 15th and 16th December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's Arts, Commerce & Science College, Narayangaon, Pune. (Poster presentation) pp. 59.
- 8) Yerwa S, Unawane N, **Ghosh S.** Antimicrobial activity of bioactive principles from organically cultivated *Curcuma longa*. 15th and 16th December, 2017. National Conference on Green Approach towards Environment and Chemical Science (GAECS-2017), Department of Chemistry, Gramonnati Mandal's Arts, Commerce & Science College, Narayangaon, Pune. (Poster presentation) pp. 57.
- 9) Patil A, Gramopadhye SS, **Ghosh S.** Anticancer and antioxidant Pt-PdNPs synthesized by medicinal plant *Dioscorea bulbifera*. 6th and 7th October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune. (Poster presentation) pp.17.
- 10) Kulkarni S, Yerwa S, Thakkar B, **Ghosh S.** Petroleum contaminated soil as rich source of bioemulsifier producing bacteria. 6th and 7th October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune. (Poster presentation) pp.30.
- 11) Sutar KK, Ghodekar PM, Gawali PP, **Ghosh S.** Isolation and identification of antidiabetic bioactive principle from *Dioscorea bulbifera*. 6th and 7th October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune. (Poster presentation) pp.27.
- 12) Kaware KE, Mane RP, **Ghosh S.** *Gnidia glauca* flower mediated synthesis of silver nanoparticles with potent antimicrobial synergy. 6th and 7th October, 2017, National



- Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune. (Poster presentation) pp.27.
- 13) Pawar PA, Khadatare PA, Unawane N, **Ghosh S.** A novel strategy towards agro-waste mediated dye biosorption for water treatment. 6th and 7th October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune. (Poster presentation) pp.17.
 - 14) Khandale PR, Thorat NN, **Ghosh S.** Enhanced antimicrobial activity of bioactive principles from *Curcuma longa* cultivated by organic farming. 6th and 7th October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune. (Poster presentation) pp.26.
 - 15) Satish S, Shinde SS, **Ghosh S.** Saponin functionalized magnetic nanoparticles as novel apoptotic inducers in breast cancer cells. 6th and 7th October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune. (Poster presentation) pp.33.
 - 16) Wadikar SV, Shah JH, **Ghosh S.** *Litchi chinensis* peel extracts with antimicrobial synergy and antidiabetic activity. 6th and 7th October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune. (Poster presentation) pp.29.
 - 17) Belapurkar SP, Gandhe SC, **Ghosh S.** Phytogetic Au_{core}Ag_{shell} nanoparticles with potent antibiofilm and antileishmanial activity as novel nanomedicine. 6th and 7th October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune. (Poster presentation) pp.31.
 - 18) Sarkar B, Pawar M, Lonkar S, **Ghosh S.** Detergent degrading bacteria isolated from *Sapindus mukorossi* extract for agro-biotechnological applications. 6th and 7th October, 2017, National Conference on Ingenious Trends In Life Sciences, Department of Microbiology, M.C.E. Society's Abeda Inamdar Senior College of Arts, Science and Commerce, Azam Campus, Camp, Pune. (Poster presentation) pp. 20.
 - 19) Sarkar B, Pawar M, Lonkar S, **Ghosh S.** Detergent degrading bacteria isolated from *Sapindus mukorossi* extract for agro-biotechnological applications. 14th and 15th

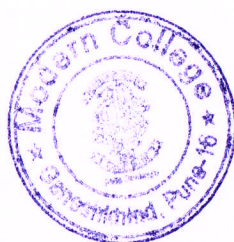


September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.34.

- 20) Gramopadhye S.S, Patil A, **Ghosh S**. Organic farming promotes predominance of antimicrobial bioactive principles in *Curcuma longa*. 14th and 15th September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.7.
- 21) Shende S, **Ghosh S**. *Litchi chinensis* peel : An agro-waste mediated synthesis of catalytic gold and silver nanoparticles. 14th and 15th September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.6.
- 22) Luikham S, Malve S, Gawali P, **Ghosh S**. Agro-waste mediated dye biosorption : A novel strategy towards bioremediation. 14th and 15th September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.8.
- 23) Kulkarni TM, **Ghosh S**. *Cocos nucifera* water : A novel microbial growth promoting medium. 14th and 15th September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.9.
- 24) Rajput V, Palkhe A, **Ghosh S**. Design and development of selective microbiological culture medium using *Musa paradisiaca* peels: A novel agro-biotechnological application. 14th and 15th September, 2017. National Conference on Recent Trends in Food and Agri Biotech organised by Department of Biotechnology, Sinhgad College of Engineering, Pune. (Poster Presentation) pp.38.

Member of Editorial Board/Reviewer's Team

- 1) Journal of Photochemistry & Photobiology, B: Biology
- 2) Journal of Diabetes Research
- 3) International Journal of Advances In Engineering Research
- 4) International Journal of Research in Science and Technology
- 5) Chemotherapy Research and Practice
- 6) Arabian Journal of Chemistry
- 7) Journal of Nanomedicine & Biotherapeutic Discovery
- 8) Journal of Nanomedicine and Nanotechnology



Ms. Gauri Bhagat

- 1) Coordinator of Skill based course on 'Quality Control in Laboratories and industries' held from 19/6/17 to 4/7/17 at Microbiology Dept, MCASC, GK.
- 2) Member of Internal Exam Committee

Ms. Debangi Chattopadhyay

- 1) Attended and was a member of organizing committee for DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages' on 4th, 5th, 6th January, 2018 at Microbiology Dept, MCASC, GK.
- 2) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management' on 12th February, 2018 at Microbiology Dept, MCASC, GK.
- 3) Member for college level extracurricular activities in 'Yuva Saptah'
- 4) Won second prize in Modern Chef Competition arranged by B.Voc department during Vividha.

Dr. Manasi Tukdeo

- 1) Attended and was a member of organizing committee for DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages' on 4th, 5th, 6th January, 2018 at Microbiology Dept, MCASC, GK.
- 2) Attended and co-coordinated Workshop on 'Life Skills, Goal Setting and Stress Management' on 12th February, 2018 at Microbiology Dept, MCASC, GK.
- 3) **Life member** of Association of Microbiologists India.

Mrs. Rashmi Chotaliya

- 1) Documentation Officer- Department of Microbiology for DVV
- 2) Attended and was a member of organizing committee for DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages' on 4th, 5th, 6th January, 2018 at Microbiology Dept, MCASC, GK.
- 3) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management' on 12th February, 2018 at Microbiology Dept, MCASC, GK.
- 4) Coordinator for college level extracurricular activities in 'Anubhuti'.

Dr. Sayali Mahajan

- 1) Attended and was a member of organizing committee for DBT STAR Workshop on 'Isolation and Enumeration of Bacteriophages' on 4th, 5th, 6th January, 2018 at Microbiology Dept, MCASC, GK.



- 2) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management' on 12th February, 2018 at Microbiology Dept, MCASC, GK.
- 3) Won second prize in Modern Chef competition arranged by B.Voc department during Vividha.

Ms. Priyanka Parate

- 1) Attended and was a member of organizing committee for Workshop on 'Life Skills, Goal Setting and Stress Management' on 12th February, 2018 at Microbiology Dept, MCASC, GK.
- 2) Won First prize in Modern Chef competition arranged by B.Voc department during Vividha.

Mrs. Trupti Kulkarni

- 1) Presented Poster on '*Cocos nucifera* water: A novel microbial growth promoting medium' in **National Conference** titled 'Recent advances in Food, Agriculture Biotechnology and Bioinformatics' held on 22nd December, 2017 at Sinhgad College, Pune

Student Achievements:

• **Scholarships:-**

- 1) Sanchita Gramopadhye (MScII) - DST Inspire scholarship
- 2) Divya Shah (MScII) - Lila Poonawalla scholarship
- 3) Priyanka Manani, Bhakti Thakkar and Shivani Kulkarni (MScII) - Weikfield Malhotra scholarship

• **NET/SET/ GATE Qualified Students**

- 1) Jayashree Khadilkar - CSIR-NET- JRF
- 2) Yogita Patil -UGC - JRF
- 3) Nikita Patil - CSIR-NET - JRF
- 4) Pallavi Budgude - CSIR-NET
- 5) Anandita Karkhanis - CSIR-LS
- 6) Apoorva Joshi - GATE

• **MS/PhD Abroad**

- 1) Priya Neurgaonkar - Department of Bioinformatics, University of Wuerzburg, Germany.
- 2) Sharvari Narendra - Northeastern University, Boston, USA.



- 3) Shrutika Navale – MS in Food Science Lincoln University, New Zealand.
- 4) Manali Mahajan - MS in Molecular Biology, Adelphi University, New York.
- 5) Shruti Goradiya - MS in Molecular Biology, Adelphi University, New York.

- **Extra Curricular Activity :-**

- 1) Sharada Najan (MScI) won 3rd prize in 1st International Kyokushin Karate Championship on 8th October 2017.
- 2) Sonali Nichit (MScII) won 3rd prize in 1st International Kyokushin Karate Championship on 8th October 2017.

- **Extension Activity**

- 1) MSc I students performed a street play to create awareness about the disease Thalessemia during Vividha.

- **Conferences**

1. A total of **8 students** presented **posters** in **National Conference** titled 'Recent advances in Food, Agriculture Biotechnology and Bioinformatics' held on 22nd December, 2017 at Sinhagad College, Pune. Biswarup Sarkar, Manish Pawar and Sumit Lonkar from **SYBSc** won **first prize** while Ashwini Patil and Sanchita Gramopadhye from **MSc II** won **second prize**.
2. A total of **28 students** presented **posters** in **National Conference** titled 'Ingenious trends in Life Sciences' on 6th and 7th October, 2017 at Abeda Inmadar College, Pune. Ashwini Patil and Sanchita Gramopadhye from **MSc II** won **second prize**.
3. A total of **17 students** presented **posters** in **National Conference** titled 'Green Approach to Environment and Chemical Science', Department of Chemistry, Gramonnati Mandal, ACS College, Narayangoan. Biswarup Sarkar, Manish Pawar and Sumit Lonkar from **SYBSc** won **first prize**.
4. A total of **3 students** presented **posters** in **International Conference** on 'Applied Nanotechnology and Nanoscience' organized by Tuljaram Chaturchand College of ACS, Baramati on 7th, 8th and 9th December 2017. Soching Luikham from **MSc II** won **first prize**.
5. A total of **5 students** presented **posters** at **The National Academy of Science, India (NASI) 87th Annual Session and Symposium** on "Basic Research - Its role in National Development: Savitribai Phule Pune University on 8th -10th December, 2017. Biswarup Sarkar, Manish Pawar and Sumit Lonkar from **SYBSc** won **first prize**.

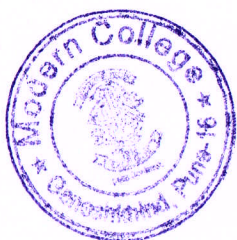
6. A total of 29 students presented posters and 3 students gave oral presentation at National Conference on " Chemical Sciences: An Interdisciplinary Approach" organised by Chemistry Department, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 18th, 19th and 20th January, 2018. Biswarup Sarkar, Manish Pawar and Sumit Lonkar from SYBSc won First Prize in Oral Presentation while Sandesh Shinde, Sushmita Satish from MSc II won second prize in Poster Presentation.

7. A total of 15 students presented posters and also gave oral presentation at International Conference on " Recent Trends in Life Sciences" organized by Department of Zoology, Modern College of Arts, Science and Commerce, Ganeshkhind, Pune on 2nd and 3rd February 2018. Sandesh Shinde from MSc II won first prize in oral presentation while Dhiraj Jamdade, Shardool Patil, Dishantsingh Rajpali, Priya Vaswami from MSc I won first prize in poster competition; they were guided by Mrs. Sneha Ogale.

• **Annual Science Exhibition 'Anubhuti'**

The annual Science Exhibition 'Anubhuti' was organized on 10th January 2018. A total of 85 students participated in various competitions like Projects, Models, Posters at College level and Rangoli & Salad decoration at Departmental level based on scientific themes. 29 students from FY, SY, TY and MSc I presented a total of 11 projects. 13 posters were presented by 28 students of SY and MSc I while one student from TYBSc presented a working model of fermenter. 27 students from FY, TY, MSc I and MSc II presented 13 rangolis with Microbiology as the theme.

1. Priyanka Swami, Tanvi Bahirat, Akshada Balkawade and Apurva Sonawane from FYBSc bagged second prize in Project competition at College level.
2. Biswarup Sarkar, Manish Pawar, Sumit Lonkar from SYBSc won second prize in Poster competition at College level.
3. Rutuja Sawant and Aishwarya Jadhav from M. Sc I won first prize in Rangoli competition (Departmental level) while second prize was bagged by Ratna Pal from TYBSc. Third and consolation prizes were won by Komal Khutal, Sanskruti Mukhekar from FYBSc and Sneha Lawhale, Seema Koli and Sandesh Shinde from M.Sc II, respectively.



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