

PES Modern College of Arts, Science and Commerce, Ganeshkhind, Pune

Department of Microbiology

Annual Report 2018-19

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.

Workshop/Seminar organized:

Sr. no.	Title	Speakers	Registered participants	Duration and Dates
1	DBT-STAR sponsored Workshop on "Physicochemical and microbial analysis of soil"	Mr. Mihir Thatte, Vainateya Chem products Pvt. Ltd., Mr. Shreyas Kumbhare, NCMR-NCCS	74	3 days, 3 rd , 4 th and 5 th July 2018
2	Seminar on "National Biodiversity Act and its implications in Biodiversity Research", organized in association with AMI Pune Unit	Mr. Rahul Mungikar, BHNS, Dr. Abhay Bajaj, NCMR-NCCS, Dr. Yogesh Shouche, NCMR-NCCS, Mr. Mahendra Savadikar, HiTech BioSciences.	115	5 th October 2018
3.	DBT-STAR sponsored Workshop on 'Research Methodology and Scientific Communication'	Dr. Yogesh Shouche, NCMR-NCCS, Dr. P. K. Dhakephalkar, ARI, Prof. B. B. Nath, Department of Zoology, SPPU.	120	5 th January 2019
4.	National Seminar : 'Breaking the Barriers in Sciences' BtBiS Feb 2K19, sponsored by SPPU under QIP	Dr. Yogesh Shouche, NCMR-NCCS, Prof. K. Suguna, IISc Bangalore, Dr. Chetan Gadgil, NCL, Dr. P. K. Dhakephalkar, ARI, Prof. (Retd.) Y.K. Khillare, BAMU, Aurangabad, Dr. Saroj Ghaskadbi, SPPU, Dr. Smita	86	2 days, 1 st -2 nd Feb 2019



	Zinjarde, IBB, SPPU, Dr. Sougata Ghosh, RK University, Rajkot, Prof Milind Watve, IISER-Pune.	
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Lectures organized under DBT Star College Scheme:

Sr. no.	Title	Speakers	No of students	Target Class	Duration and Dates
1	Mycorrhiza biofertilizers	Dr. Gauri Phadke	52	S Y B Sc	25.08.2018
2	Response Surface Methodology	Mrs Ashwini Kulkarni	18	T Y B Sc	01.09.2018

Educational and Industrial Visits:

Sr. no.	Place of Visit	Target group	What seen	No. of students	Duration and Dates	Accompanying Staff members
1	NCMR-NCCS	M Sc I	MALDI-TOF, FAME, Next generation sequencer.	47	10.09.2018	Mrs. Sneha Ogale, Dr. Manasi Tukdeo, Dr. Kirti Dahigaonkar, Mrs. Prajakta Taple
2	NCCS	M Sc II	Confocal microscopy, FACS, Cell repository, MALDI TOF.	32	21.09.2018	Dr. Gauri Phadke, Ms. Yogini Kanade, Mrs. Ashwini Kulkarni
3	Municipal Waste water treatment plant, Near Naidu Hospital, Pune	M Sc II	Construction and working of wastewater treatment plant.	44	26.10.2018	Dr. Gauri Phadke, Ms. Yogini Kanade
4	Baramati Agro Tourism	F Y B Sc	Honey Bee rearing, Pisciculture, Nandan Dairy, Polyhouse	84 (of C division)	13.10.2018	Mrs. Anupama Sonawane, Mr. Prasad Deshmane
5	SuLa Vineyards	S Y B Sc and T Y B Sc	Wine fermentation, Sula Wines, Sinnar; Gargoti Museum, Nasik	127	21 st -22 nd January 2019, 24 th -25 th January 2019	Mrs. Sneha Ogale, Mrs Anupama Sonawane, Mr. Prasad Deshmane, Ms. Shobha Devkar, Mrs Trupti Kulkarni



6	Bharati Vidyapeeth Blood Bank	T Y B Sc	ELISA, Blood Collection, testing, separation and storage of blood components, and blood donation.	41	25.02.2019	Mrs. Sneha Ogale, Mrs Trupti Kulkarni
7	NCCS, Pune	MSc I	FACS, Confocal Microscope, Proteomics facility, Animal Cell Repository	46	28.02.2019	Dr. Kirti Dahigaonkar, Yogini Kanade, Dr. Ashwini Kulkarni, Dr. Mukul Godbole

Guest lectures organized:

Sr. no.	Resource Person	Topic	No. of students benefitted	Target Audience	Dates
1	Mr Ganesh Honwad, Wildlife Research and Conservation Society, Pune; Melghat Tiger Reserve	Life Skills	38	T Y B Sc	19.07.2018
2	Dr Suvarna Bobade, Counseling Cell, Psychology department, Modern College Ganeshkhind, Pune.	Stress Management	17	M Sc II	20.07.2018
3	Dr Suvarna Bobade, Counseling Cell, Psychology department, Modern College Ganeshkhind, Pune	How to improve study skills	26	T Y B Sc	20.07.2018
4	Ms. Priya Vaswani, Wishing Factory NGO, Pune	Thalessemia awareness program	32	M Sc I, F Y B Sc	18.08.2018
5	Mr. Rohit Joshi, Venkateshwara Hatcheries, Pune	Chick embryo fibroblast cell culture	33	M Sc II	20.09.2018
6	Dr Ravi Manjithaya, Assistant Professor,	Autophagy in health and disease	100	T Y B Sc, M Sc I and M Sc II	22.01.2019



	JNCASR, Bangalore, India				
7	Dr Ravi Manjithaya, Assistant Professor, JNCASR, Bangalore, India	Opportunities in Life Sciences	70	Modern High School, Ganeshkhind	
8	Dr Mrityunjaya, Department of Biotechnology, MCASC, GK.	Egg Inoculation technique	98	T Y B Sc, M Sc I	26.02.2019
9	Mr. Gaurav Gunjal, IISc Bangalore	Opportunities in Microbiology	62	M Sc I and M Sc II	21.12.2019
10	Dr. Imran Khan, Inha University, Department of Biological Engineering, South Korea	Career and research opportunities in Microbiology at South Korea	30	T Y B Sc and M Sc I	03.01.2019
11	Dr. Priya Neurgaonkar, Department of Bioinformatics, Wuersburg University, Germany	How to apply for higher education in Germany	50	T Y B Sc and M Sc II	4.1.2019

Student participation in Guest lectures organized outside college:

Sr. no.	Resource Person	Topic	No. of students benefitted	Target Audience	Dates
1	Dr. Yogesh Shouche	Next Generation Sequencing	47	M Sc I	10.09.2018
2	Mr. Vishwajeet Kashid	Platelet Donation drive	39	T Y B Sc	25.02.2019

Guest lectures attended:

Sr. no.	Resource Person	Organized By	Topic	Dates
1	Rotary Club Members	Rotary Club Members	Cyber Security	08.08.2018
2	Placement Cell activity of College	Placement Cell of College	Interview technique for TY B Sc students	17.08.2018
3	Dr. Radhakrishnan, IISER, Kerala	AMI Pune Unit and Department Of Microbiology, SPPU	Interrogations on Cell cycle in a dimorphic bacteria	21.08.2018



4	Jarkko Olavi- Tontti, Finland, Tienchi – Martin – Liao, Germany, Tammy Ho, Honkong	SPPU and Arts faculty of MCASC, Ganeshkhind, Pune.	PEN International Congress	28.09.2018
5	Brig. Talwalkar	NSS unit of MCASC, Ganeshkhind, Pune	Surgical Strike	29.09.2018
6	Mr. Aniket Ausekar, Mr. Ajoy Shaw, Dr. Ashish Polkade, Mr. Nikhil Ganorkar, Dr. Milind Choudhary	AMI Pune Unit and Department Of Microbiology of Garware College, Pune.	Entrepreneurship: A gateway for Biologists 2018	09.10.2018
7	Dr. Sachin Chavan	Department of Biotechnology, MCASC, Ganeshkhind, Pune	NET/SET workshop	13.10.2018
8	Dr. Jayant Naralikar, Dr. Shekhar Mande, Dr. Bhushan Patwardhan	Department Of Microbiology, SPPU	125 th Saturday Meet	20.10.2018
9	Head, International women's Organisation, Innerwheel, Baner Unit, Pune	Rotary Club and Staff Academy, MCASC, Ganeshkhind, Pune	Red Dot Campaign	19.09.2018
10	Heartfulness Institute members	Staff Academy, MCASC, Ganeshkhind, Pune	Heartfulness , Relaxation and meditation workshop for staff	10.09.2018-12.09.2018
11.	DR. G.C. Maikap	Placement Cell, MCASC, Ganeshkhind, Pune	Careers in Microbiology	13.12.2018
12	Prof. Mahendra More, SPPU	Department of Physics, MCASC, GK	Electron Microscopy- Fundamental to recent advances	28.12.2018
13	Dr. Pratibha Shrivastav, ARI	Department of Biotechnology, MCASC, GK	Phytochemicals	28.12.2018



Staff achievements:

A. Individual

1. Mrs. Sneha Ogale

1.1. Presented poster at **International Conference** on “Empowering Society with Microbial Technology”, held at T.C College, Baramati on 07th to 09th February 2019 jointly organized by T.C College, Microbiologist Society of India and Association of Microbiologists of India entitled “Bioprospecting of endophytes of *Zea mays* for plant growth promoting activities towards development of bioinoculant”.

2. Presented two posters at “AMI Best Poster competition” at Abeda Inamdar Senior College entitled-

- a. Eucalyptus leaf Extracts have potential to be developed into a Herbal disinfectant to control MDR bacteria isolated from hospital environment
- b. Development of Biocontrol agent with potential against Fungal plant pathogens

1.2 Mrs. Sneha Ogale has been selected for development of an e-learning course in “Open Education for a Better World Mentoring program”. The **UNESCO Chair** on Open Technologies for Open Educational Resources (OER) and Open Learning at the **Jozef Stefan Institute** and **University of Nova Gorica** have launched a tuition-free international online mentoring programme with the title *Open Education for a Better World*, to unlock the potential of open education in achieving the UN’s Sustainable Development Goals (SDG).

1.3 Mrs. Sneha Ogale, in collaboration with **Jnana Prabodhini Educational Activity Research Centre** has developed e-content module (Heredity and Variation: DNA structure) which is uploaded on <https://diksha.gov.in> website which is available for Maharashtra Board students of Std. IX by scanning QR CODE printed in their textbooks.

1.4 Mrs. Sneha Ogale, HOD, received recognition by Rotary International as “Paul Harris Fellow” and recognition as generous Donor by “Rotary Club of Pune South”.

1.5 Mrs. Sneha Ogale, HOD, was awarded with best player award in Annual Staff Sports competition organized by department of Physical Education, MCASC, GK.

2. Mrs. Anupama Sonawane

2.1 Presented poster at **International Conference** on “Empowering Society with Microbial Technology”, held at T.C College, Baramati on 07th to 09th February 2019 jointly organized by T.C College, Microbiologist Society of India and Association of Microbiologists of India entitled “Biodegradation of polyethylene by soil inhabiting microorganisms”.

2.2 Life member of Association of Microbiologists India.

3. Dr. Neelima Kulkarni

3.1 **Chairperson:** Result analysis Committee.



- 3.2 **Chairperson:** NAAC criterion II Committee.
- 3.3 **Member** of F.Y. BSc. Admission committee.
- 3.4 **Member** of Research committee.
- 3.5 **Life member** of Association of Microbiologists India.
- 3.6 **Life member** of Society of Biological Chemists (India).

4. Mrs. Gauri Bhagat

1.1 Qualified SET held in June 2018

1.2 Presented poster at **International Conference** on “ Empowering Society with Microbial Technology”, held at T.C College, Baramati on 07th to 09th February 2019 jointly organized by T.C College, Microbiologist Society Of India and Association of Microbiologists of India entitled “Study of *Penicillium* sp.. Isolated from refrigerated wheat dough and its importance in food spoilage”.

5 Dr Gauri Phadke

5.1 Presented two posters at “AMI Best Poster competition” at Abeda Inamdar Senior College entitled-

1. Study of AM Biodiversity associated with Xerophytes and there effect on plant growth.
2. Bioremediation of Petrochemical Waste water

6 . Ms. Yogini Kanade

6.1 Qualified SET held in June 2018

6.2 Presented two posters at **International Conference** on “ Empowering Society with Microbial Technology”, held at T.C College, Baramati on 07th to 09th February 2019 jointly organized by T.C College, Microbiologist Society Of India and Association of Microbiologists of India entitled-

- Bioprospecting of endophytes of *Zea mays* for plant growth promoting activities towards development of bio inoculant
- Wealth from Waste: Colorful world of pigments derived from waste.

6.3 Completed online courses conducted by IIT- Mumbai, under NPTEL online learning program on “Introduction to Proteomics”

7. Dr. Kirti Dahigaonkar

7.1 Presented Six posters at **International Conference** on “ Empowering Society with Microbial Technology”, held at T.C College, Baramati on 07th to 09th February 2019 jointly organized by T.C College, Microbiologist Society Of India and Association of Microbiologists of India entitled-

- Bioprospecting of Biodiversity of Volcanic Mud
- Application of Novel Bacterial Consortium for Solid Waste management



- Extraction of Geosmin from actinomycetes grown on cow dung agar
- Development of microbial consortium for solid waste management
- Wealth from Waste: Colorful world of pigments derived from waste
- Activity of silver nanoparticles synthesized from buttermilk filtrate, herbs and spices against dental cavity causing organisms.

7.2 Presented Four posters at “AMI Best Poster competition” at Abeda Inamdar Senior College entitled-

- Development and application of Novel microbial Consortium to get best out of waste.
- Is this the new one: Solution to the chitin issue
- Geosmin from actinomycetes grown on cow dung agar
- Wealth from waste: Colorful world of pigments derived from waste.

8. Dr. Ashwini Kulkarni

8.1 Awarded Ph. D. degree on 14th February 2019. Title of her thesis was “Lichens: a novel system for bioremediation of textile dyes and effluent”, under the guidance of Prof. S. P. Govindwar at Department of Microbiology, Shivaji University, Kolhapur.

8.2 Published a paper on Densitometric HPTLC quantification method for the validation of decolourization of disperse orange ERL and dye mixture by lichen *Parmelia sp.* in international peer reviewed journal ‘Journal of Biotechnology and Bioengineering’

8.3 Presented four posters at **International Conference** on “Empowering Society with Microbial Technology”, held at T.C College, Baramati on 07th to 09th February 2019 jointly organized by T.C College, Microbiologist Society Of India and Association of Microbiologists of India entitled

- Enhanced application of extracellular peroxidases of lichen by immobilization as CLEA microcapsules for biodegradation and detoxification of BBR and dye mixture
- Isolation of pesticide degrading microorganisms from pesticide contaminated natural sources
- Development of microbial consortium for solid waste management
- Application of Novel Bacterial Consortium for Solid Waste management

8.4 Participated as resource person to deliver a lecture on safety in life sciences laboratories for nonteaching staff of colleges by Department of Physics, MCASC, GK

8.5 Life member of “Biotechnology Research Society of India (BRSI)

9. Mrs. Prajakta Taple

9.1 Qualified SET held in June 2018

10. Ms. Shobha Devkar

10.1 Qualified NET (LS), held in June 2018 with All India Rank: 76th

11. Dr. Manasi Tukdeo



11.1 Presented poster at **International Conference** on “Empowering Society with Microbial Technology”, held at T.C College, Baramati on 07th to 09th February 2019 jointly organized by T.C College, Microbiologist Society Of India and Association of Microbiologists of India entitled “Application of keratin biomass as an alternate towards sustainable agriculture”

11.2 Completed online courses conducted by IIT- Mumbai, under NPTEL online learning program on “Introduction to Biostatistics”

11.3 Life member of Association of Microbiologists India.

2. Staff achievements: Common

12. Four research projects were sanctioned in Staff category under DBT STAR College Scheme: proposals were submitted by:

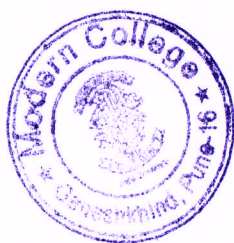
- I. Dr. Kirti Dahigaonkar (Solid Waste Management)
- II. Dr. Gauri Phadke (Mycorrhizae)
- III. Dr. Ashwini Kulkarni (Fluoride sequestering Bacteria)
- IV. Ms. Yogini Kanade (Bacterial Pigments)

13. Four research projects were sanctioned Under student category, under DBT STAR College Scheme, guided by:

- I. Mrs. Sneha Ogale – 2 (Biocontrol Agent, Herbal Disinfectants)
- II. Dr. Neelima Kulkarni (Endophytes)
- III. Mrs. Gauri Bhagat (*Penicillium* from spoilt food).

Outcomes of projects sanctioned under DBT STAR COLLEGE SCHEME

Sr No	Area of Project	Name of PI	Outcome
1	Endophytes	Dr. Neelima Kulkarni	Posters presentations at International conference on “ Empowering the society with Microbial Technology ” at Baramati And AMI Best Poster Competition at Abeda Inamdar Senior College
2	<i>Penicillium</i> from spoilt food	Mrs. Gauri Bhagat	
3	Bacterial Pigments	Ms. Yogini Kanade	
4	Solid Waste Management	Dr. Kirti Dahigaonkar	
5	Biocontrol Agent, Herbal Disinfectants	Mrs. Sneha Ogale	
6	Mycorrhizae	Dr. Gauri Phadke	



Posters presented at International Conference “Empowering the society with Microbial Technology”	Posters presented at “AMI Best Poster Competition” at Abeda Inamdar Senior College
04	05

14. Seven staff members and students participated in **International Symposium** on “Microbiomix: From Space to Gut” held at NCCS on 17th November 2018 organized by NCMR NCCS and AMI Pune Unit. Participants: Mrs. Sneha Ogale, Dr. Neelima Kulkarni, Dr. Kirti Dahigaonkar, Dr. Ashwini Kulkarni, Ms. Yogini Kanade, Mrs. Prajakta Taple, Ms. Shobha Devkar
15. Eight staff members participated in **State level Conference** on “Innovative teaching Pedagogy” held at A V Hall, MCASC, GK on 22nd and 23rd January 2019, organized by Department of Zoology, MCASC, GK. Participating members were: Mrs. Sneha Ogale, Dr. Neelima Kulkarni, Mr. Prasad Deshmane, Dr. Gauri Phadke, Dr. Kirti Dahigaonkar, Dr. Ashwini Kulkarni, Ms. Yogini Kanade and Mrs. Prajakta Taple
16. Six staff members participated in **one day workshop** on “Patent: an important area to know” a faculty development program held at A V Hall, MCASC, GK on 29th January 2019 organized by Department of Biotechnology, MCASC, GK. Participating members were: Dr. Neelima Kulkarni, Dr. Kirti Dahigaonkar, Dr. Ashwini Kulkarni, Ms. Yogini Kanade, Mrs. Prajakta Taple, Ms. Shobha Devkar.
17. Four staff members participated in “**Awareness and training program** on SWAYAM and MOOCs” held at Central Library, MCASC, GK on 29th December 2018 organized by Library, MCASC, GK. Participating members were: Mrs. Sneha Ogale, Dr. Ashwini Kulkarni, Ms. Yogini Kanade and Ms. Shobha Devkar
18. Mrs. Prajakta Taple and Dr. Ashwini Kulkarni participated in women’s team of MCASC, GK for Intercollegiate Sports competition organized by Krida Bharati, Pune.
19. **List of Posters to be presented at Baramati s International conference on “Empowering Society with Microbial Technology- 7th to 9th February 2019**

a. Posters of projects funded under DBT STAR College Scheme

Sr No	Poster Number	Title	Authors
1	PP 29	Study of <i>Penicillium</i> Spp. Isolated from refrigerated wheat dough and its importance in food spoilage	Mrs. Gauri Bhagat and Ms. Komal Kharat



2	PP 32	Development of microbial consortium for solid waste management	Dr. Kirti Dahigaonkar, Mrs. Ashwini Kulkarni, Utkarsha Kulkarni and Nandini Surampalli.
3	PP 26	Application of Novel Bacterial Consortium for Solid Waste management	Mrs. Ashwini Kulkarni, Dr. Kirti Dahigaonkar, Nandini Surampalli and Utkarsha Kulkarni.
4	PP 20	Development of Biocontrol agent with potential against fungal plant pathogen and insect pests	Mrs. Sneha Ogale, Ms. Ashwini Gund and Ms. Sneha Autade.
5	PP 66	Antimicrobial potential of plant extracts against MDR bacteria isolated from hospital environment	Mrs. Sneha Ogale, Ms. Sayali Mundankar and Ms. Prajakta Birajdar.
6	PP 48	Wealth from Waste : Colorful world of pigments derived from waste	Ms. Yogini Kanade, Dr. Kirti Dahigaonkar, Ms. Rutuja Sawairam and Mr. Sumit Mandle.

b. Posters Of non-funded projects

Sr No	Poster Number	Title	Authors
1.	PP 31	Extraction of Geosmin from actinomycetes grown on cowdung agar	Dr. Kirti Dahigaonkar, Ms. Vaishnavi Taple and Ms. Sana Manyar
2.	PP 74	Activity of silver nanoparticles synthesized from buttermilk filtrate, herbs and spices against dental cavity causing organisms.	Dr. Kirti Dahigaonkar, Mr. Prasad Memane, Ms. Namrata Gawali, Ms. Bhagyashri Nipunage, Ms. Smita Patil and Mrs. Ashwini Sarje.
3.	PP 87	Biodegradation of polyethylene by soil inhabiting microorganisms.	Mrs. Anupama Sonawane, Ms. Sneha Mutekar and Ms. Linal Madgundi.
4.	PP 94	Application of keratin biomass as an alternate towards sustainable agriculture	Dr. Manasi Tukdeo, Mr. Akshay Phulwade, Mr. Saurabh Satav and Mr. Shubhankar Waghole.



5.	PP 108	Bioprospecting of endophytes of <i>Zea mays</i> for plant growth promoting activities towards development of bioinoculant.	Mrs. Sneha Ogale, Ms. Yogini Kanade and Ms. Sheetal Singhania.
6.	PP 115	Enhanced application of extracellular peroxidases of lichen by immobilization as CLEA microcapsules for biodegradation and detoxification of BBR and dye mixture.	Mrs. Ashwini Kulkarni and Dr. Sanjay Govindwar.
7.	PP 25	Isolation of pesticide degrading microorganisms from pesticide contaminated natural sources	Mrs. Ashwini Kulkarni , Dr. Gauri Phadke, Ms. Prajakta Talekar, Ms. Anagha Nachare, Ms. Sana Manyar, Ms. Vaishnavi Taple and Ms. Neha Bhalerao.
8.	PP 8	Bioprospecting of Biodiversity of Volcanic Mud	Dr. Kirti Dahigaonkar and Dr. Prashant Dhakephalkar.

c. Posters presented in AMI Poster Competition held at Abed Inamdar Senior College

Sr. No	Title Of Poster	Authors
Posters of projects funded under DBT STAR College Scheme		
1	Eucaliptus leaf Extracts have potential to be developed into a Herbal disinfectant to control MDR bacteria isolated from hospital environment	Mrs. Sneha Ogale , Ms. Sayali Mundankar and Ms. Prajakta Birajdar.
2	Development of Biocontrol agent with potential against Fungal plant pathogens	Mrs. Sneha Ogale , Ms Ashwini Gund, Ms. Sneha Autade.
3	Wealth from Waste: Colourful world of pigments derived from wastes.	Dr. Kirti Dahigaonkar , Ms Rutuja Sawairam, Mr. Sumit Mandle.
4	Development of novel Microbial consortium: To get best out of waste	Dr. Kirti Dahigaonkar , Dr. Ashwini Kulkarni, Nandini Surampalli, Utkarsha Kulkarni
5	Study of AM Biodiversity associated with Xerophytes and there effect on plant growth.	Dr. Gauri Phadke , Ms. Tanuja Patil, Ms. Nandeeni Suryawanshi
Posters of non-funded projects		
6	Bioremediation of Petrochemical Waste water	Dr. Gauri Phadke , Ms. Sayali Patil



7	Is this new one?: Solution to Chitin issue	Dr. Kirti Dahigaonkar , Prajakta Talekar, Anagha Nachare
8	Geosmin from Actinomycetes grown on cowdung agar.	Dr. Kirti Dahigaonkar , Ms.Sana Manyar, Ms. Vaishnavi Tapale.

3. Students Achievements:

- 1) UG and PG students participated and presented **posters at International Conference** on “Empowering Society with Microbial Technology”, organized by T.C College, Baramati on 07th to 09th February 2019.
- 2) UG and PG students **participated in International Symposium** on “Microbiomix: From Space to Gut” held at NCCS on 17th November 2018 organized by NCMR NCCS and AMI Pune Unit.
- 3) PG students participated and presented **posters at AMI Best Poster Competition** at Abeda Inamdar Senior College, Pune on 05th April 2019.
- 4) Students received various awards/ appreciation as follows:
 - 3.1 **Ms. Vanashree Sahasrabudhe** from M. Sc. II Qualified NET-LS with 76th AIR
 - 3.2 **Ms. Rutuja Savairam** from M. Sc. I Secured Consolation prize in Intercollege Microtoon competition by Dolphin Group, YCIS, Satara
 - 3.3 **Ms. Vanashree Sahasrabudhe** from M. Sc. II Secured 3rd position in Intercollege Classical Solo dance competition ‘Zanak Zanak Zankaar’ organized by Rotary club of Thane south.
 - 3.4 **Ms. Sharada Najan** from M. Sc. II secured gold medal in intercollegiate karate competition.
- 5) Students participated in **18th State Level MicroBioOlympiad** on 9th January 2019 conducted by Department of Microbiology and Biotechnology, R. C. Patel Arts, Commerce and Science College, Shirpur out of them, 7 from F. Y. B. Sc., 6 from S. Y. B. Sc. And 22 from T. Y. B. Sc. were qualified.
- 6) The annual Science Exhibition ‘**Anubhuti**’ was organized on 12th January 2018. Students from science departments participated in projects, models, posters, student presentations and rangoli & salad decoration competitions based on scientific themes.



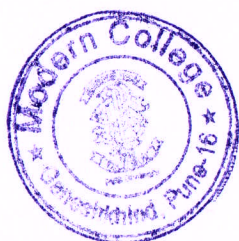
Participation in Anubhuti:

Project Competition

Sr. No.	Title of the Project in Detail	Names of the students	Class and Division	Name of the guide/ Teacher in charge
1	Fungi in Food Spoilage	1.Komal Kharat	T.Y.B.Sc	Mrs. Gauri Bhagat
2.	Extraction and screening for antimicrobial properties of anti-infectives from plants of common use	1.Ms. Shruti Deshpande 2. Ms. Rasika Joshi 3. Ms. Deepa Garia	M.Sc.II	Dr. Gauri S. Phadke
3.	Solid waste management using Microbial consortium isolated from agricultural and municipal waste	1.Ms. Utkarsha Kulkarni 2. Ms. Nandini Surampalli	M.Sc.II	Dr. Kirti Dahigaonkar Mrs. Ashwini Kulakrni
4.	Isolation of pathogens from Alibag Sea water sample	1.Advait Gowrishankar 2.Sai Konde 3.Jui Phadke 4.Ankita Gosavi	S.Y.B.Sc	Mrs. Sneha Ogale
5	Isolation of crystal violet Degrading bacteria from soil.	1.Sanket Sakpal , 2.Rajwardhan Jagtap , 3.Apurv Tuplondhe	S.Y.B.Sc.	Dr. Neelima Kulkarni
6	Exploration of the plant growth promoting properties of Endohytes of <i>Oxalis triangularis</i>	1.Apurva Sonawane 2.Akshada Balkwade	S.Y.B.Sc	Mrs. Sneha Ogale
7.	Efficacy testing of commercially available Disinfectants and Sanitizers.	1.Jwalanthi Sundaram 2.Dhaval Shejwal	F.Y.B.Sc	Mrs.Prajakta Taple MS. Yogini Kanade

Model Competition

Sr. No	Concept of the Model	Area of Specialization	Names of the students	Class	Name of the guide/Teacher in charge
1	Antiviral therapy	Virology	1.Rutuja Sawairam 2.Gauri Tungikar	M.Sc. I	Dr. Kirti Dahigaonkar
2.	Working model of Aerobic respiration	Biochemistry	1.Priyanka Swami, 2.Samruddhi More, 3.Tanvi Bahirat	S.Y.B. Sc	Dr. Neelima Kulkarni



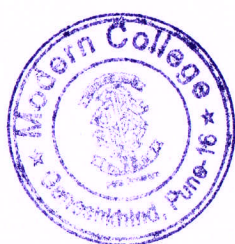
Poster Competition

Sr.No	Title of the Poster	Area of Specialization	Names of the students	Class	Name of the guide/Teacher in charge
1	Antifungal Activity of Aloe vera (<i>Aloe barbadensis</i>)	Microbiology	1. Tejaswini Iyer 2. Gargi Deshpande	F.Y.B.Sc	Mrs. Prajakta Taple.
2.	Plastic Degrading Bacteria isolated from mangrove soil.	Biodegradation	1. Shraddha Rana	T.Y.B.Sc	Mrs. Anupama Sonawane.

Winners of Anubhuti 2019:

Sr. No.	Name of competition	Name of winners	Position secured	Class	Name of the guide
1	Model	1. Rutuja Sawairam 2. Gauri Tungikar	1 st	M.Sc. I	Dr. Kirti Dahigaonkar
2	Salad decoration	Dhaval Shejwal	1 st	F Y B Sc	Ms. Yogini Kanade

20. Mrs. Trupti Kulkarni won 1st prize at Modern Chef competition organized by B Voc, MCASC, GK.
21. Eight Staff members performed a short Play titled "Nath Ha Majha" in Ashayghan, a cultural program for staff, organized by Staff Academy, Modern College, GK. Participating members were Mrs. Sneha Ogale, Dr. Neelima Kulkarni, Mrs. Gauri Bhagat, Dr. Gauri Phadke, Dr. Kirti Dahigaonkar, Dr. Ashwini Kulkarni, Ms. Yogini Kanade and Mrs. Prajakta Taple.
22. Eight staff members participated in college-level staff sports competitions in Throwball, badminton and dodgeball teams. Members were Mrs. Sneha Ogale, Mrs. Gauri Bhagat, Dr. Gauri Phadke, Dr. Kirti Dahigaonkar, Dr. Ashwini Kulkarni, Ms. Yogini Kanade and Mrs. Prajakta Taple, Ms. Shobha Devkar.
23. Mrs Prajakta Taple and Dr. Ashwini Kulkarni participated in women's team of MCASC, GK for Intercollegiate Sports competition organized by Krida Bharati, Pune.



Students Achievements:

- 7) UG and PG students presented posters at International Conference on “Empowering Society with Microbial Technology”, organized by T.C College, Baramati on 07th to 09th February 2019.
- 8) UG and PG students participated in International Symposium on “Microbiomix: From Space to Gut” held at NCCS on 17th November 2018 organized by NCMR NCCS and AMI Pune Unit.

9) Students received various awards/ appreciation as follows:

Sr. no.	Student Name	Class	Competition	Achievement	Date
1	Ms. Priya Vaswani	M Sc II	Vividha 2019	Special Achiever award	17.01.2019
2	Ms. Vanashree Sahasrabudhe	M Sc II	Qualified NET-LS	76 th rank	
3	Ms. Vanashree Sahasrabudhe	M Sc II	Intercollege Classical Solo dance competition ‘Zanak Zanak Zankaar’	Secured 3 rd position in	22 nd September 2018
4	Ms. Rutuja Savairam	M Sc I	Intercollege Microtoon competition by Dolphin Group Satara	Secured Consolation prize	12.01.2019

10) Students participated in 18th State Level MicroBioOlympiad on 9th January 2019 conducted by Department of Microbiology and Biotechnology, R. C. Patel Arts, Commerce and Science College, Shirpur.

No	Class	Appeared	Qualified
1	F Y B Sc	7	7
2	S Y B Sc	12	6
3	T Y B Sc	26	22

Financial Aid:



Sr No.	Name of Beneficiary	Amount	Purpose
1	Archana Datwase	2000/	Educational Aid
2	Prajakta Birajdar	21,500/	Educational Aid
3	Samarbikash Chakma	13000/	Educational Aid
4	Kerala Relief Fund	One day salary of each staff member	Kerala Flood Relief
5	Flood relief fund	205/	Kerala Flood Relief
6	Friends of Max	400/	Donation for cancer patients
7	CRPF Relief Fund	One day salary of each staff member	CRPF Relief Fund on background of Pulwama Terror Attack.
8	Snehalaya, NGO which looks after destitute women and orphans	Rs. 5000/-	For benefit of destitute women and orphans
9	The Wishing factory	Rs. 5000/-	For individuals affected by thalassaemia

Extra Curricular activities: Staff participation

Sr No	Activity	Venue	Date
1	Tree plantation drive	PES Modern College of Agribiotechnology, Dakhne Kule, Mulshi.	21.07.2018
2	Ranbhaji Mahotsav	MCASC, Ganeshkhind, Pune	8.09.2018
3	Psy world by Department of Psychology	MCASC, Ganeshkhind, Pune	26.09.2018



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Principal
Modern College of Arts, Science
& Commerce, Ganesh Khind,
Pune-18.

Sheha Ogale

HEAD
Department of Microbiology
PES's Modern College of Arts, Science
& Commerce, Ganeshkhind, Pune-18.