



NAME :

- **Dr. Shilpa Sunil Mujumdar**

DESIGNATION :

- **Head of the Department**

QUALIFICATION

- B. Sc. Microbiology
- M. Sc. Microbiology
- Ph. D. Microbiology

CONTACT NUMBER :

9423562564

EMAIL ID:

ssm.micro@moderncollegepune.com

TOTAL TEACHING EXPERIENCE IN MODERN COLLEGE : 10 years

AFFILIATIONS :

Executive ,member of Association of Microbiologist (AMI), Pune Unit

RESEARCH AND ACADEMIC INTEREST :

Plant microbe interaction, Molecular biology, Bioemulsifier

ONGOING AND COMPLETED RESEARCH PROJECTS

Completed **two minor project**

1. **BCUD** (Rs. 3,00,000/-) and
2. **UGC Minor research project** (RS. 2,00,000/-)

POSITIONS HELD IN MODERN COLLEGE

- Head of the Microbiology Department
- Coordinator of Non Grant Courses
- Asst. Coordinator of Star College Scheme

POSITIONS HELD OUTSIDE MODERN COLLEGE

- **Approved teacher of University of Pune.**
- **Recognized PG teacher of the University of Pune.**
- **Recognized guide for M. Phil. in Microbiology of University of Pune.**
- Appointed as Local Enquiry Committee Member by University of Pune.
- Appointed as subject expert for selection committee interviews by University of Pune.
- **Examiner and Paper setter for M. Sc Microbiology**, University of Pune from last four & three years respectively.
- **Co-ordinator** of M.Sc. Microbiology Practical examination December 2012, University of Pune.
- **Executive member of AMI, Pune Unit**

HONORS AND RESPONSIBILITIES :

- Senior Research Fellowship by Lady Tata Memorial Trust, Bombay, India.
- Fellowship of University of Pune, Pune, India.

INVITED SPEAKERS / HONORABLE GUEST ETC.

- Invited as guest lecturer at Sinhgad College of Science.
- Invited as subject expert in workshop organized by AMI from last two years.

LIST OF PUBLICATIONS

- **Original Research Articles :**

- **Patents :**

S.B. Huddedar, A.M Shete, J.N. Tilekar, S.D. Gore, D.D. Dhavale and B.A. Chopade Plasmid pUPI126 mediated indole 3 acetic acid production a method thereof

US Patent No. 60/466330.

International Publications :

1. Ashwini Shete, **Shilpa Mujumdar**, Smita bhuyan and Balu Chopade (2015). Isolation, Biotyping, Biochemical and Physiological Characterization of Marine *Acinetobacter* Isolated from West Coast of India. **International Journal of current microbiology and Applied Science. Special issue- 2: 277-301.**
2. Chaitrali Atre, Tanushree Bhandari Madhuri Kothawade and **Shilpa Mujumdar** (2015) Isolation, Characterization and Screening of Bioemulsifier Producing Microorganisms from Soil Sample (Kaas Pathar, Satara, India) and its Application. International Journal of current microbiology and Applied Science. **Special issue 2, 65-81.**
3. Rajashree Bhosale, Komal Hajare, Bhagyashree Mule, **Shilpa Mujumdar** and Madhuri Kothawade (2015). Biosynthesis, Characterization and Study of Antimicrobial Effect of Silver Nanoparticles by Actinomycetes spp. **International Journal of current microbiology and Applied Science. Special issue 2, 141-151.**
4. Smita Bhuyan-Pawar, Reshma Yeole, Vankatesh Sanam, Shradha Bashetti and Shilpa Mujumdar (2015). Biosurfactant Mediated Plant Growth Promotion in Soils Amended with Polyaromatic Hydrocarbons. **International Journal of current microbiology and Applied Science. Special issue 2, 343-356.**
5. **Shilpa Huddedar**, Ashwini Shete, Jayant Tilekar, Sharad Gore, Dilip Dhavale and Balu Chopade (2002). Isolation, characterization and plasmid pUPI126 mediated indole 3 acetic acid production in *Acinetobacter* strains from rhizosphere of wheat. **J. Appl. Biochemistry and Biotechnology. 102-103 : 21-39.**
6. Amey Ranjekar, Rutuja Mahagonkar and **Shilpa Mujumdar** (2015). Multi-drug Resistance of Micro-Organisms Isolated from Dog Skin and Saliva. **International Journal of current microbiology and Applied Science. Special issue 2, 317-329.**
7. Yogini Soman, Jyoti Mohite, Swati Thakare, Sayali Raokhande and Shilpa Mujumdar(2015). Plasmid Curing Activity by Seed Extracts of Cuminum cyminum, Coriandrum sativum and Myristica fragrans Houtt. and Fruit Peel Extracts of Orange, Banana and Pineapple Against Gram Negative Bacteria. **International Journal of current microbiology and Applied Science. Special issue 2, 302-316.**
8. Shilpa Mujumdar, Shradha Bashetti and Balu Chopade (2014). Plasmid pUPI126-encoded pyrrolnitrin production by *Acinetobacter haemolyticus* A19 isolated from the rhizosphere of wheat. **World Journal of Microbiology and Biotechnology. 30 (2), 495-505.**
9. Shradha Bashetti, Priyanka Palande, Sonal Mankar, Smita Bhuyan, Balu Chopade and **Shilpa Mujumdar** (2012). Studies on bioemulsifier production by *Acinetobacter calcoaceticus* C42 isolated from rhizosphere of corn. **International Journal of Institutional Pharmacy and Life Sciences, 2(3): 95-114.** Dhawal D. Doshi, Javed P. Maniyar, Smita S. Bhuyan & **Shilpa S. Mujumdar** (2010). Studies on bioemulsifier production by *Actinopolyspora* A18 isolated from garden soil. **Ind. J. Biotechnol. 9(4):391-396**
10. Javed P Maniyar, Dhawal V Doshi, Smita S Bhuyan & **Shilpa S Mujumdar.** (2011) Bioemulsifier production by *Streptomyces* sp. S22 isolated from garden soil. **Ind. J. Exp. Biol. Vol. 49: 293-297.**
11. Surekha Satpute, Smita Bhuyan, Karishma Pardesi, **Shilpa Mujumdar**, Prashant Dhakephalkar, Ashwini Shete and Balu Chopade (2010). Molecular Genetics of Biosurfactant Synthesis in Microorganisms. **Advances in Experimental Medicine and Biology. 672 : 14-41.**

12. **Shilpa Huddedar** and Balu Chopade (2001). Studies on indole acetic acid production by *Acinetobacter spp.* Isolated from rhizosphere of wheat. International Conference on New Horizons for Biotechnology, Trivendrum. In proceedings of : International Conference on New Horizons for Biotechnology, Trivendrum, April 15-18, Abstract No. 56.
13. **Shilpa Huddedar**, Sarad Gore and Balu Chopade (2000). Studies on distribution and characterization of *Acinetobacter spp* isolated from rhizosphere of wheat exhibiting antifungal and antibacterial activity. <http://www.microbiologyou.com>. Paper 13.pp 1-16. In Proceedings of : **International Conference on Microbial Biotechnology Public Policy and Trade (ICMBT)**, Osmania University, Hyderabad.

- **Reviews :**

1. Tanushree Bhandari, Chaitrali Atre and **Shilpa Mujumdar** (2015). Industrial and Biological Applications of Bioemulsifiers: a Mini Review. **Journal of Biomedical and Pharmaceutical Research. 4(4) 25-34.**
2. Jyoti A. Mohite, Yogini P. Soman and Shilpa S. Mujumdar (2016) Herbal extraction and plasmid curing (curing of multiple drug resistance in bacteria using herbal extracts. World Journal of Pharmaceutical Research . 5(1): 1554-1565.

- **Books: Nil**

Book Chapters :

1. Satpute, S.K; Bhuyan S.S.; Pardesi, K.R; **Mujumdar, S.S;** Dhakephalkar, P.K; Shete, A.M & Chopade, B.A. (2010). Molecular genetics of biosurfactant synthesis in microorganisms. Chapter 2. Pp 14-50. In: Sen R. K. (Eds) Biosurfactants. **Landes Bioscience Publishers. Austin, U.S.A.**
2. Shilpa Mujumdar, Shradha Bashetti, Sheetal Pardeshi, and Rebecca S. Thombre (2015) Industrial Applications of Biosurfactants. Chapter 4 , Telor and Francis, Apple Academic Press, USA, **In Press**

- **General articles : Nil**

- **Abstract published : Nil**

CONFERENCES ATTENDED / COORDINATED

CONFERENCES COORDINATED

- **National conference on Dynamic Microbes: Role in Human Welfare in 2015**
- **Sate Level conference on Microbiology in 21st Century in 2011.**

CONFERENCES Participated

- **Presented poster in Conferences**
- 1. Shradha Bashetti, Sonal Mankar, Priyanka Palande, Smita Bhuyan and **Shilpa Mujumdar** (2011) Studies on bioemulsifier production by *Acinetobacter calcoaceticus* C42 isolated from

rhizosphere of corn. Abstract No. 31, International Conference on “ Biotechnology for better tomorrow” organized by Department of Microbiology, Dr Babasaheb Ambedkar Marathwada University, Aurangabad, sub-centre Osmanabad. On 6 to 9 January, 2011.

2. Vynkatesh. M. Sanam, Deepali S. Mane., Gauri M. Pawar, **Shilpa. S. Mujumdar** & Smita. S. Bhuyan (2011) Utilization of molasses for biosurfactant production by *Streptomyces* S2. State level conference on “Microbiology in 21st Century”. Organized by Department of Microbiology, Modern College Shivajinagar, Pune 5.
3. Shradha P. Bashetti, Sonal. G. Mankar, **Shilpa. S. Mujumdar** (2009). Studies on Bioemulsifier Production by *Acinetobacter calcoaceticus* C42 Isolated from Rhizosphere of Corn. Intercollege, Zonal and State presentation for Avishkar. Pune, India
4. Dhawal Doshi, Javed Maniyar and **Shilpa Mujumdar (2007)** Bioemulsifier production by Actinomycetes isolated from different sources. National Conference on Global Warming, organized by Sharadabai pawar college and Vidhya Pratishthan in Jan. 23-25th. Abstract No. 55.
5. Dhawal Doshi, Javed Maniyar and **Shilpa Mujumdar (2007)** Bioemulsifier production by Actinomycetes isolated from different sources. State level poster competition, organized by Department of Biotechnology, Modern College, Shivajinager, Pune -5.
6. **S.B. Huddedar** and B.A, Chopade (2001), Studies on indole acetic acid production by *Acinetobacter* spp isolated from rhizosphere of wheat. **International Conference on New Horizons for Biotechnology**, Trivemdrum. April 15-18. Abstract No. 56.
7. **S. B. Huddedar** and B.A. Chopade (2001), Studies on distribution and characterization of *Acinetobacter* spp isolated from rhizosphere of wheat exhibiting antifungal and antibacterial activity. <http://www.microbiologyyou.com>. Paper 13.pp 1-16. In Proceedings of : International Conference on Microbial Biotechnology Public Policy and Trade (ICMBT), July 15-17, 2000. Department of Microbiology, Osmania University, Hyderabad. Abstract No. B-P4, P33.
8. **S. B. Huddedar** and B.A. Chopade (2001), Studies on distribution and characterization of *Acinetobacter* spp isolated from rhizosphere of wheat exhibiting antifungal and antibacterial activity. <http://www.microbiologyyou.com>. Paper 13.pp 1-16. In Proceedings of : International Conference on Microbial Biotechnology Public Policy and Trade (ICMBT), July 15-17, 2000. Department of Microbiology, Osmania University, Hyderabad. Abstract No. B-P4, P33.

Posters Presented at National Conferences :

1. Tanushree Bhandari, Chaitrali Atre and **Shilpa Mujumdar** (2015) Isolation, Characterization and Screening of Bioemulsifier Producing Microorganisms from Soil Sample (Kaas Pathar, Satara, India) and its Application. **Won first prize for the same.**

2. Yogini Soman, Jyoti Mohite, Swati Thakare, Sayali Raokhande and Shilpa Mujumdar(2015). Plasmid Curing Activity by Seed Extracts of *Cuminum cyminum*, *Coriandrum sativum* and *Myristica fragrans* Houtt. and Fruit Peel Extracts of Orange, Banana and Pineapple Against Gram Negative Bacteria. **International Journal of current microbiology and Applied Science**. **Won First prize for the same**

State Level Conference :

1. Rajan Thakur and Shilpa Mujumdar (2011) Indole Acetic acid production by *Acinetobacter spp* isolated from corn rhizosphere. State level poster competition, organized by Department of Biotechnology, Modern College, Shivajinagar, Pune -5 (**WON BEST POSTER AWARD**).
2. Lalit Lande, Smita Bhuyan and **Shilpa Mujumdar** (2011) Biemulsifier production from *P. sturtii*. isolated from garden soil. Recent Trends in Life Sciences, organized by Arts Science Commerce College of Pune District Education Society, Pirangut. On 11th and 12th February, 2011.
3. Alka Jagdale, Shradha Bashetti, Smita Bhuyan, **Shilpa Mujumdar**, Anushka Devale (2011). Isolation and Screening of plant growth promoting bacteria from rhizosphere. State level conference on “ Microbiology in 21st Century”. ABSTRACT No. 4. Organized by department of Microbiology, Modern College Shivajinagar, Pune 5, on 25th and 26th February 2011.
4. Gauri Pawar, Deepali Mane, Vyankatesh M. Sanam, **Shilpa Mujumdar** & Smita Bhuyan (2011) Isolation, identification and characterization of bioluminescent bacteria from fish sample and its use as water pollution indicator. ABSTRACT No. 21. State level conference on “ Microbiology in 21st Century”. Organized by department of Microbiology, Modern College Shivajinagar, Pune 5 on 25th and 26th February 2011.
5. Lalit Lande, Smita Bhuyan & **Shilpa Mujumdar**(2011) Studies on bioemulsifier production from *Providentia stuartii* isolated from garden soil. ABSTRACT No. 31. State level conference on “Microbiology in 21st Century”. Organized by department of Microbiology, Modern College Shivajinagar, Pune 5 on 25th and 26th February 2011.
6. Madhuri Londhe, Smita Bhuyan, **Shilpa Mujumdar** (2011) Isolation of siderophore producing organism from rhizosphere soil of *Adathoda vasica*. ABSTRACT No. 33. State level conference on “ Microbiology in 21st Century”. Organized by department of Microbiology, Modern College Shivajinagar, Pune 5 on 25th and 26th February 2011.
7. Priyanka Mane, Smita Bhuyan & **Shilpa Mujumdar** (2011) Isolation and characterization of indole acetic acid (iaa) producing organism from rhizosphere of gram (*Cicer arietinum*). S ABSTRACT No. 49. State level conference on “ Microbiology in 21st Century”. Organized by department of Microbiology, Modern College Shivajinagar, Pune 5 on 25th and 26th February 2011.
8. Ravindra Baviskar, Sunny Gaikwad, **Shilpa Mujumdar** & Smita Bhuyan(2011) Production of gibberellic acid by soil fungi. ABSTRACT No. 53. State level conference on “ Microbiology in 21st Century”. Organized by department of Microbiology, Modern College Shivajinagar, Pune 5 on 25th and 26th February 2011.

9. Shikha Malla; **Shilpa Mujumdar**; Madhuri Amrutkar (2011) Antibacterial activity of crude extracts of spices against food borne pathogenic microorganisms. ABSTRACT No. 65. State level conference on “ Microbiology in 21st Century”. Organized by department of Microbiology, Modern College Shivajinagar, Pune 5, on 25th and 26th February 2011.
10. Vynkatesh. M. Sanam, Deepali S. Mane., Gauri M. Pawar, **Shilpa. S. Mujumdar** & Smita. S. Bhuyan (2011) Utilization of molasses for biosurfactant production by *Streptomyces* S2. ABSTRACT No. 82. State level conference on “ Microbiology in 21st Century”. Organized by department of Microbiology, Modern College Shivajinagar, Pune 5 on 25th and 26th February 2011.
11. Pratibha A Patil , **Shilpa S Mujumdar**, Madhuri Amrutkar (2011) Antibacterial activity of medicinal plants against gastrointestinal pathogens. Abstract No.84 State level conference on “ Microbiology in 21st Century”. Organized by department of Microbiology, Modern College Shivajinagar, Pune 5 on 25th and 26th February 2011.
12. Shradha P. Bashedti, Sonal G Mankar and Shilpa Mujumdar (2009). Studies on bioemulsifier production *Acinetobacter calcoaceticus* C42 isolated from rhizosphere of corn. Intercollege Zonal and State Level presentation for AVISHKAR, University of Pune, Pune.
13. Dhawal Doshi, Javed Maniyar, and **Shilpa Mujumdar (2007)** Bioemulsifier production by Actinomycetes isolated from Garden Soil. National Conference on Global Warming, Organized by Sharadabai Pawar College and Vidya Pratishthan in Jan. 23-25, Abstract No. 55.
14. Dhawal Doshi, Javed Maniyar, and **Shilpa Mujumdar (2007)** Bioemulsifier production by Actinomycetes isolated from different sources. State level poster competition, organized by Department of Biotechnology, Modern College, Shivajinagar, Pune -5, on 25th and 26th February 2011.

WORKSHOPS / SYMPOSIA ATTENDED / SEMINAR ATTENDED

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- **WORKSHOP Organized**
- Organized one day ‘Workshop on Molecular Biology’ organized by Modern College of ASC, Pune 5, in Association with HiMedia Laboratories Pvt. Ltd., held on 27th Jul. 2013

WORKSHOPS ATTENDED

1. State level workshop on ‘Choice Based Credit System’ organized by C. T. Bora College, Shirur Dist. Pune held on 16th Jan 2013
2. College level ‘Quality Enhancement Workshop’ organized by Modern College of ASC, Pune 411005, held on 5th Feb 2013.
3. One day symposium on ‘Entrepreneurship: A Gateway For Biologists’ Jointly organized by AMI, Pune Unit and Pad. Dr. D. Y. Patil Arts, Commerce and Science College, Pune, held on 14th Aug. 2013
4. Coordinator of one day ‘Workshop on Molecular Biology’ organized by Modern College of ASC, Pune 5, in Association with HiMedia Laboratories Pvt. Ltd., held on 27th Jul. 2013
5. Participated in one day seminar organized by University of Pune on “ Biosafety” at Department of Botany, University of Pune, in September 2009.
6. Symposium on ‘Recent Trends in Life Sciences’ at MCASC, Ganeshkhind, Pune 411053 held from 8th to 9th Jan. 2007.

7. Participated in workshop on "Microbial Taxonomy" by MACS-Agarkar research Institute, Pune During December 21-22, 2006.
8. Participated in the National conference Organized by University of Pune " Indian Science Congress" during 3-7 January 2000.
9. Participated in State Level Workshop on "Advanced Genetic Engineering & Molecular Biology Techniques". Modern College of Arts, Science and Commerce, Pune, India; Dec 2007
10. Conference on Microbial taxonomy organized by Agharkar Research Institute, Pune, 2007 Participated in the National conference Organized by University of Pune " Indian Science Congress" during 3-7 January 2000.

TRAINING PROGRAMMES

- Participated in **Orientation course, UGC**, University of Pune.
- Participated in **Refresher Course**, UGC, University of Pune.
- Participated in **Refresher Course**, UGC, University of Pune.