

SHRI SHIVAJI COLLEGE OF ARTS, COMMERCE AND SCIENCE, AKOLA
Faculty Profile



1. Name: ARCHANA SUDHIR PETHE
2. Address (Residential) : Sanskruti Pinnacle Ram Nagar , Akola
3. Phone No./ Mobile No. : 9923959041
4. E- mail address: archanapethe14@gmail.com
5. Designation: Associate Proffesor
6. Department: Department of Microbiology
7. Date of Birth: 14th Mar. 1962
8. Area of specialization: Microbiology
9. Academic Qualification:

Exam passed	University	Subject/Specialization	Year of Passing	Division
B.Sc.	Nagpur University	Microbiology	1982	I
M.Sc.	Nagpur University	Microbiology	1984	I
Ph.D.	RTM University, Nagpur.	Microbiology	2006	-
Other Degree/ Diploma	Certificate course of computer MS-OFFICE.			
Title of Ph. D. Thesis : " <i>Studies on Thermoturcic Spore forming bacteria in Milk</i> ".				

10. Research Experience:

M. Sc. Dissertations: 22

Research publications:

1. Novel Fermentation Media for production of *Bacillus thuringensis* VAR.KURSTAKI (BT KHD-1). Sehgal, N. G. **Pethe Archana S.** Rao, N. S. Satpute, and M. P. Mohril J. *Microb. World* 5(2), pp 197-210, 2003.
2. Isolation of Chromomeric *Pseudomonas* from Sewage-Study of Antibacterial Activity of its Pigment. **Pethe Archana S.** and Ghai Dipali R. *Biotechnology in Agriculture, Industry and Environment*, 2002, pp 357-360. Microbiologist Society, Karad.
3. Antibacterial Activity of Green Tea Leaves extracts. Amita C. Tawari, **A. S.Pethe** Swati Tale, S. P. Rothe, *Bioinfolet*, 2007. 4(3): pp. 214-217.
4. Antifungal Activity of Green Tea Leaves Extracts, Swati L. Taley, **A. S. Pethe**, Amita C. Tawari, S.P. Rothe Scientific publishers (India), New Pali Road, Jodhpur.
5. Cold Pasteurization of Milk by pulsed electric field Method (PEF). (Pethe) Lande A. G. Deshpande M.M, S. U. Meshram. *Journal of Microbial World*, Vol.5, No.2.
6. Effect of Microwaves on High Temperature Tolerant Bacteria **A.S. Pethe**, S. U. Meshram *J. of Biotechnology*, Jalgoan
7. **Archana S. Pethe** and Dipali R. Ghai; 'Isolation of Chromogenic *Pseudomonas* through enrichment culture and study of Antibacterial Activity of *Pseudomonas* pigment'. *Proceedings of International Conference of SAARC countries on Biotechnology in Agriculture, Industry & Environment*, (2001); 155-159.
8. D.R. Sehgal, N. G. Rao, **A.S. Pethe**, N. S. Satpute and M. P. Mohril; 'Novel fermentation Media for production of *Bacillus thurengiensis* var. Kurstski (BT KHD-1)'. *Jr. Microbial World* Vol.5 (2) (2003); 107-110.
9. Sehgal S., **A.S.Pethe.**, N.G.V.Rao; 'Novel fermentation media for production of *Bacillus thurengiensis* variety Kurstski (BT K HD 1)'. *Journal of Microbial world* Vol. 5 (2003): 107
10. Y. S. Mohite, **A. S. Pethe**, S. B. Lanjewar and S. P. Rothe, 'Antibacterial activities of *Argemona mexicana* linn.' *BIOINFOLET* 3(3); 188-191(2006).
11. Swati Tale, **A.S.Pethe** and S.P.Rothe; 'Antimicrobial activities of Tea'. *BIOINFOLET* Vol.4(2) (2007); 139-141

12. Sarita Agrahari, M. P. Mohril, **Archana Pethe**, and N. G. V. Rao; 'Isolation and Characterization of Bacillus thurengiensis Strain from the Ecosystem of Central India.' Jr. of Pure and Applied Microbiology. Vol. 2 (2) (2008); 547-550
13. Sarita Gupta, **Archana Pethe**, S. R. Rothe and N.G.V.Rao; 'Isolation and characterization of Bacillus thurengiensis strains from various locality of Vidharbha Region', Mendel International Journal (2008-09); 41-42
14. M.N.Gaikwad,**A.S.Pethe**; 'Effect of microwaves on thermoduric bacteria' .Jr. Microbial World Vol.11 (1) (2009); 121-126.
15. Antimicrobial activity of Argemona Mexicana LINN, Y.S.Mohite, **A.S.Pethe**, S.B.Lanjewar, S.P.Rothe Bioinfolet 3(3) ; 188-191,2006
16. A. S. Pethe, K. V. Kothale, M.K. Rokade and M. T. Ramteke (2012): Production of soyabaen yoghurt by *Streptococcus thermophilus* an *Lactobacillus bulgaricus*. Proceeding of IRTBS held on 8-9 September 2012:567-570, ISBN: 978-81-923621-0-6.
- 17.Amita C. Tawari and A. S. Pethe (2012): Effect of acid and salt coagulants on organoleptic evaluation of Tofu. Proceeding of IRTBS held on 8-9 September 2012:653-655, ISBN: 978-81-923621-0-6.
- 18.A. S. Pethe and M. R. Ramteke (2012): Views of Jawaharlal Nehru on Hindu Code Bills. Proceedings of UGC sponsored Interdisciplinary International conference on Relevance of Pt. Jawaharlal Nehru's Ideology in the present scenario held on 29th -30th, pg. no.24-26.ISBN:978-93-82414-14-8.
- 19.S. L. Taley and A. S. Pethe (2012): Screening of plant extracts for antibacterial activity against pathogens isolated from semen samples. Proceeding of IRTBS held on 8-9 September 2012:768-771. ISBN: 978-81-923621-0-6.
- 20.Swati L. Taley, A. S. Pethe, Amita C. Tawari and S. P. Rothe (2012): Antifungal activity of green tea leaves extract. *World Journal of Science and Technology*,2(6): 23-25.
21. Archana S. Pethe and Kalpana V. Kothale (2012): Efficient minister of the labor and public works Department Dr. B. R. Ambedkar- a Boon for the Industrial labor. Proceedings of UGC sponsored Interdisciplinary International conference on Relevance of Dr. Babasaheb Ambedkar's Ideology in the present scenario, pg. no.13-14, ISBN: 978-93-82414-15-5.

11. Seminar/ conference/ symposia/ workshop attended:

1. 32nd AMI Conference at Dept. of Microbiology & Microbial technology & School of biological science Madurai Kamraj University, Madurai. (10-12 Jan. 1992).
2. Seminar on "Project opportunities based on Microbial technology", Organized by P.G. Dept. of Microbiology Nagpur University, Nagpur. (9th July 1995).
3. 36th AMI Annual Conference at Dept of Microbiology CCs. Haryana Agri. Uni. Hisar (8-10 Nov. 1995).
4. "Mahila Pradhyapak Parishad" at Amravati (3rd Jan. 1999).
5. Seminar on 'Biodiversity Conservation Society, Amravati & Dept. of Forest, Amravati Div. Amravati. (21st March 1999).
6. 5th Mah. Chapter Conference of IAMM at Microbiology MIMSR Medical College, Latur, Maharashtra. (30th Sept. & 1st Oct. 1999).
7. 3rd Amravati Vidhyapith Mahila Pradhyapak Parishad organized by Shri Shivaji College, Akola. (3rd Jan 2001).
8. Regional workshop on "Energizing Curriculum for Up gradation of Standards", organized by TRDEA Amravati Uni., Amravati, (14-15 July 2001)
9. National seminars on "Awareness of Biodiversity for Acclitizable Environment In 21st Century", Organized by J.B. Science College Wardha (9-10 Aug 2002).
10. Attended International Conference on Sustainable Biotechnology organized by PGTD Nagpur, 2002.
11. National Conference on "Awareness of Biodiversity organized by Shri Shivaji College, Akola (18-19 Jan 2003).
12. Participated and presented research papers at Micro-Biotech 2005 Annual Conference of Association of Microbiologist of India, organized by Osmania University, Hyderabad, 8-10th Dec. 2005.
13. Participated and presented papers at International Biotech Congress PGTD, Nagpur University 17-20 Dec. 2006.
14. Participated at University level Conference on Problems of farmers from Vidharbha region organized by Shri Shivaji College, Akola, 7th Dec. 2006.
15. "Mahila Pradhyapak Parishad", at Shri Shivaji College, Akola (3rd Jan. 2007).
16. National Conference on Modern Approaches and Innovations in Biotechnology and Biodiversity Conservation, at Shri Shivaji Science College Amravati. (28, 29 & 30th Jan 2007).
17. State level Conference on Environment at Shri Shivaji Science College Akola. (4th Feb 2007).
18. National conference on Modern trends in plant sciences, Dr. Babasaheb Ambedkar Marathwada Uni. Aurangabad (6-7 Oct. 2007).
19. One Day Students Conference in Microbiology jointly organized by Dept. of Microbiology And Microbiologist Society at Akola, 15th vDec. 2007.
20. UGC sponsored National Seminar on Microbiological Developments and Biochemical Research, 29-30th Nov. 2007 at LAD and Smt. R.P College for Women, Nagpur.
21. Participated and Presented in "Modern Trends in Plant Sciences", 6th Oct. 2007, Saturday, Dept. of Botany, Maharaja Sayajirao University of Baroda, Vadodara, Gujrat.
22. Participated and presented the following research papers at International conference on 'Biotechnology for better tomorrow. (BTBT-2011) Organized by Dept. Of Microbiology,

Dr. Babasahed Ambedkar Marathwada University in collaboration with Biotech.

Research Society and Microbiologist Society of India. From 6th to 9th Feb. 2011

23.Chaired a session in State level workshop on Research Methodologies in science,
Organized by faculty of Science, Shankarlal Khandelwal College, Akola. On 26th Feb.
2011.

24.Participated and presented paper at Advances in life sciences for sustainable rural
development ALSSRD, Shanar Lal Khandelwal college, Akola, October 11-12, 2011.

25.Participated and presented paper at National conference on Innovative research trends in
biological sciences NCIRTBS-2012 at Shri Shivaji College of Arts, commers and Science
Akola held on 8-9 September.

26.Proceedings of UGC sponsored Interdisciplinary International conference on Relevance
of Pt. Jawaharlal Nehru's Ideology in the present scenario held on 29th -30th, pg. no.24-
26.ISBN:978-93-82414-14-8.

27.Impact of climate change on agriculture production in India held on 6th October 2012
held in Shri Shivaji College Of Arts, Commerce And Science,Akola.

12. Teaching experience:

Course Taught Name of the University/ College/ Institution Duration
UG – Amravati University 29 years and PG 20 yrs
Shri Shivaji College of Arts, Commerce and
Science, Akola
22 Aug 1984 and onwards

13. Role in College activities:

- Member of College Admission committee

14. Role in University activities

- Valuation of UG and PG papers in the subject Microbiology
- Paper setter and moderator for UG and PG in Microbiology
- Member Board Studies in Microbiology

15. Extension activities

- Delivered lectures in AIDS awareness in NSS camp.
- Delivered Public Lectures.

16. Membership of Journal

- Life member of Journal of Microbial World.
- Life member of Journal of Bioinfolet.
- Life member of Indian Journal of Microbiology.

Following students have submitted Ph. D thesis:

Sr. No.	Names	Title of thesis	Year
1	Miss. S. L. Tale	Isolation and Identification of pathogenic etiological agents from seminal fluid responsible for human sterility.	w.e.f. 15/6/2009
2	Miss. A. C. Taori	Production of Tofu from Glycine Max by Mesophilic and Thermophilic microflora	w.e.f. 15/6/2009

Students registered and currently working in the Department for Ph.D Degree

(Registered under Dr. A. S. Pethe):

Sr. No.	Names	Title of thesis	Year
1	Miss. Sarita N. Mankar	Deterioration of Leather by microflora	w.e.f.15/1/2011