

Shri Shivaji College of Arts, Commerce and Science, Akola

Faculty Profile (Bio-data of faculty members)

(Needed for updating the college website)



1. Name: **Mr.Shankar Marotrao Mular**
2. Address (residential) : Kothari Watika No.2, Malakapur Road, Akola.444007.
3. Phone No. / Cell No: 09422147903
4. E-mail address: smmular@rediffmail.com
5. Designation: Associate Professor
6. Department : Biochemistry
7. Date of birth: 29/06/1957
8. Area of specialization: Industrial Fermentation & Food Science
9. Academic qualification

Examination passed	Board/ University	Subject/ Specialization	Year of passing	Division/ Grade/ Merit
Bachelor's Degree (B.Sc.)	Nagpur University	Biology, Chemistry	1979	I
Master's Degree(M.Sc.)	Nagpur University	Biochemistry	1981	II
Other(B.Ed.)	Amravati University	Education	1986	I

10. Membership of Academic Organizations:

- Ex-Member of Board of Studies in Biochemistry (including Microbiology) Amravati University
- Member of sub committee appointed by Board of studies in Biochemistry (including Microbiology) Amravati University for revision and preparation of B.Sc. I , II & III Biochemistry syllabi
- Member of Subject Examination committee of Amravati University, in subject Biochemistry and Microbiology.
- Member of Society of Biological chemist, India since 1996.
- Member of Photography Committee for National Conference organized by Botany department Shri Shivaji College Akola (18th to 19th Jan., 2003.)
- Member of Science association committee

11. Research Experience:

- Guiding M. Sc. Dissertations-3Students
- Submitted Ph.D. Thesis on topic "Purification, Characterization and Comparison of Cytochrome P-450 enzymes from varieties of *Cajanus cajan* from country and abroad", under the supervision of Dr.Z.H.Khan in subject Biochemistry in SGB Amravati University, Amravati.

12. Number of Publication :

- **Shankar Mular**, Rajyalakshmi Amancheria, Zia H. Khan, "Screening of NADPH Cytochrome P₄₅₀ Reductase and Alkaline Protease Activities in Germinating *Cajanus Cajan* L. Seedlings in the Presence of Herbicides and protein Synthesis Inhibitors. Indian Journal of Applied Research, Vol. 4, Issue 4, March 2014 : pp 10 – 13.

13. Seminars/ Conferences/ Symposia/ Conferences attended

Participated in symposium on "Popularizing Bio-technology Process for Rural and Semi-Urban Areas" Sponsored by UGC organized by P.G.Deptt. of Microbiology and Biochemistry Academic Staff College, Nagpur from 7 th to 9 th Feb. 1991.
Participated in the National Symposium cum workshop on the "Disease Diagnostics" held between 25 th to 29 th Oct., 1997 organized by Dept. of Biochemistry, Nagpur University in connection with Golden Jubilee Celebrations.
Attended the 68 th Annual Meeting of SBC (India) and symposium on current trends in Biology held at the Indian Institute of Science, Bangalore from 27 th to 29 th December, 1999.
Participated in National Conference on Recent trends in Biotechnology held at Dept. of Biotechnology, Amravati University, Amravati from February 3-5, 2000.
Effect of diffusion concentration of glucose under influence of electric energy in tissue of <i>Raphanus sativas</i> , S. M. Mular , N. R. Nikhade, S. D. Patil, A. S. Dange, Z. H. Khan, M. Musaddique, presented paper in 90 th Indian Science Congress, Bangalore, 3-7 th Jan., 2003
Extraction and comparative study of eucalyptus oil from two different species <i>Eucalyptus globulus</i> and <i>Eucalyptus glybeliferi</i> available in Akola Distt., S. M. Mular , A. R. Bhople, V. J. Tribedi, A.R. Pisolé, S.S.Lokhande, Z.H.Khan, S.P.Deshmukh, presented paper in 90 th Indian Science Congress, Bangalore, 3-7 th Jan., 2003.
Participated in UGC sponsored National Conference on Ethnobotany, Biodiversity and organized by Department of Botany, Shri Shivaji College, Akola from 18 - 19 th , Jan., 2003.
Participated in UGC sponsored National Conference on Modern approaches and innovation in Biotechnology and Biodiversity Conservation organized by Department of Biotechnology and Biological Sciences, Shri Shivaji Science College, Amravati from 28-30 Jan. 2006.
Attended State level conference on Environment organized by Shri Shivaji College of Arts, Commerce & Science, Akola on 4 th Feb., 2007.
Attended University Level Conference on various problems of farmers in the vicinity of Vidarbha, organized by Shri Shivaji College, Akola on 17 th Dec., 2006
Attended one day Conference of Lady Teacher Association of S.G.B. Amravati University organized by Shri Shivaji College, Akola on 3 rd Jan. 2007.
“Occurrence of fluorides in Drinking Water from Akola District, Shraddha A. Deshmukh, S. M. Mular, and L. H. Kamble, presented paper in 96 th Indian Science Congress, Shillong, 3-7 th Jan., 2009.
“Variation in chlorine content of drinking water in Akola District, Maharashtra, India, Nandita Gupta, Saqib Khan, Aejazuddin Shaikh, Nazia Khan, S. M. Mular and L. H. Kamble, presented paper in 96 th Indian Science Congress, Shillong, 3-7 th Jan., 2009.
“Study of Cytochrome P ₄₅₀ Enzymes from <i>Cajanus cajan</i> .S.M.Mular,Z.H.Khan presented paper in 96 th Indian Science Congress, Shillong, 3-7 th Jan., 2009.
“Study of NADPH-Cytochrome P ₄₅₀ reductase in different varieties of Pigeon pea”. S. M. Mular, Z. H. Khan presented paper in 97 th Indian Science Congress held at University of Kerala, Thiruvananthpuram, 3 – 7 th Jan, 2010
“Study of trans-Cinnamate-4-Hydroxylase in different varieties of <i>Cajanus cajan</i> . S. M. Mular, Z. H. Khan presented paper in UGC sponsored National Conference on Biotechnology for Better Tomorrow, Organized by Department of Life Science, Shri Shivaji College of Arts, Commerce and Science, Akola, 6 th – 7 th Feb. 2010.
“Effect of NaCl and inorganic phosphorous on phosphatase activities in <i>Cajanus cajan</i> ” Varsha Thakare, S. M. Mular, Z. H. Khan presented paper in UGC Sponsored National Conference on Biotechnology for better Tomorrow, Organized by Department of Life Science, Shri Shivaji College of Arts, Commerce and Science, Akola, 6 th – 7 th Feb. 2010.

<p>“Evaluation of serum calcium level during pregnancy in Buldhana District” Shaikh Kashid, Nazia D. Khan, S. S. Kunjwani, S. M. Mular, Z. H. Khan, presented paper in UGC Sponsored National Conference on Biotechnology for better Tomorrow, Organized by Department of Life Science, Shri Shivaji College of Arts, Commerce and Science, Akola, 6th – 7th Feb. 2010.</p>
<p>Attended the 98th Indian Science Congress, organized by SRM University of Chennai, 3-7 Jan., 2011.</p>
<p>Attended one day District level workshop on “Role of Teacher for Quality of Education with reference to sixth pay commission with office of Joint Director, Higher education, Amravati and S. G. B. Amravati University, Amravati on April 10, 2011.</p>
<p>“Effect of Lipoic acid on cytochrome P450 reductase in ethanol intoxicated chick liver”, S. M. Mular, N. Deshmukh and Z. H. Khan presented paper in UGC Sponsored National Conference on Innovation in Biosciences, Organized by R. A. Mahavidyalaya, Washim, Oct., 21 – 22, 2011.</p>
<p>“Effect of lipoic acid on aminopyrine-D-methylase in ethanol intoxicated chick liver”, S. M. Mular, Bhagyashree Adau and Z. H. Khan, presented paper in UGC Sponsored National Conference Advances of Life Sciences for Sustainable Rural Development, Organized by Shankarlal Khandelwal Science College, Akola, Oct. 11 – 12, 2011/</p>
<p>“Effect of lipoic acid on mixed function oxidase3 in ethanol intoxicated chicks”, S. M. Mular and Z. H. Khan, presented paper in 3rd National conference on Advances in Microbial Technology and Interdisciplinary approaches” organized by Moolji Jitha College, Jalgaon, 27 – 28, Jan., 2012.</p>
<p>Attended UGC Sponsored National Conference on “Innovative research trends in Biological Science”, organized by Department of Life Science, Shri Shivaji College, Akola, 8-9th Sept., 2012.</p>
<p>Attended the 100th Indian Science Congress, Organized by University of Kolkatta, Kolkatta., 3-7th Jan., 2013.</p>
<p>Attended 18th One Day Conference on Physical Education organized at Shri Shivaji College, Akola on 17th March 2013.</p>
<p>Attended State Level Microbiology Student’s Summit “Pure Water for Better Health”, Organized by Shri. R. L.T. College of Science, Akola on 10th Oct., 2013.</p>
<p>Attended UGC sponsored state seminar on Exploration of Biochemistry and Molecular Biology for Betterment of Human Life organized by Arts & Science College, Pulgaon on 29th Jan., 2014.</p>
<p>Attended one International Seminar for Students on “Modern Aspects in Microbial Sciences”, 3rd Jan., 2015, Shri Shivaji College, Akola.</p>

14. Research Projects Completed /

Ongoing Research project completed.

Sr.No.	Title of project	Name of the principal investigator/ Co-ordinator.	Funding agency.	Amount in Rs.(in lac.)	Period
1	Study of Cytochrome P450 enzymes from varieties of <i>Cajanus cajan</i> .	Mr.S.M Mular	UGC Minor research project	0.50 Lac.	2005-07

15. Participation in orientation and refresher courses

a)	Participated in UGC Sponsored "Orientation Course" organized by the Academic Staff College, Marathwada University, Aurangabad from 9/5/1989 to 3/6/1989.
b)	Attended and participated in UGC sponsored "Refresher Course in Biochemistry" conducted at Chemistry Dept. of Poona University, Poona from July 8 to August, 4, 1992.
c)	Participated in a 3 week Professional Development Programme entitled "Refresher Course in Biochemistry code Biochem-4" conducted by the center for Professional Development in higher education, University of Delhi from March 28 th to April 16 th , 1994.
d)	Attended and participated in UGC sponsored "Refresher Course in Biochemistry" conducted at Chemistry Dept. of Poona University, Poona from 3/11/1999 to 30/11/1999.
e)	Participated and attended the Refresher Course in Life Sciences from 5/6/2000 to 28/06/2000 conducted by Amravati University, Amravati

16. Teaching Experience

Courses Taught	Name of the University/ College/ Institution	Duration
UG	Amravati University, Shri. Shivaji College Of Art's, Commerce & Science, Akola	1986-2014 (27 Years)
PG	Amravati University, Shri. Shivaji College Of Art's, Commerce & Science, Akola	1994-2014 (20Years)
Other (Career Oriented Programme) CCLT, DCLT, ADCLT	Amravati University, Shri. Shivaji College Of Art's, Commerce & Science, Akola	2008-2014 (6Year)

17. Innovations/ Contributions in Teaching

- Design of Curriculum :- Member of Sub Committee of BOS in Biochemistry including
- Microbiology for revision And preparation of Syllabi for UG, PG as per UGC guidelines

Teaching Methods

- Distributing Lecture Synopsis and notes.
- Encouraging short answer type question in the class
- Holdings seminars on topics from syllabus
- Use of Audio-Visual Aids like Charts, Overhead projector, LCD.
- Preparation of resource materials
- Prepared unit notes, Lecture synopsis, Practical manual, Charts and models etc.

18. Extension activities/ consultancy/ community works

- Organized blood grouping and blood donation camps with Yuvashakti.
- Organized diabetic and lipid profile camps for teaching and non teaching staff members.
- Participated in Health Mela organized in Akola by Ministry of health.
- Worked in Blood Donation Activity of college. Arranges Blood Donation programme in Collaboration with Main Hospital/Medical College, every year.
- Arranges Blood Grouping Camps regularly every year in college for students.
- Provide Blood Donors to needy persons.
- Conducts diabetic detection camp for staff members.
- Helps in Clinical laboratory in Dept. of Biochemistry for Consultancy service. In this laboratory consultancy services are provided by checking blood samples.
- Serves to relief of City people during extra calamities like flood, Drought, Riots etc.

19. Role in college activities.

- Member of Under Graduate college admission committee.
- Member of P. G. college admission committee.
- Member of Departmental time-table committee.
- Member of Science Association committee.
- Member of Vigilance committee.
- Member of campus & Class room cleanliness committee.
- Teacher guardian for students of B.Sc. biochemistry.
- Helps in college beautification and premises development.

20. Role in university activities

- Ex Member of Board of studies in Biochemistry and including microbiology, SGB Amravati University.
- Member of subject Examination committee of SGB Amravati University for UG, PG Biochemistry.
- Member of sub-committee of Board of studies including Microbiology for revision & preparation of syllabi as per UGC guidelines.
- Setter, Valuer & moderator for UG,PG Biochemistry Theory Examination & Internal/External Examiner for Biochemistry Practical Exam of SGB University.
- Participated in Blood grouping and Blood donation in NSS camp organised by Shri Shivaji College Akola.