

## FACULTY PROFILE



1	<b>Name</b>	MANOHAR SHINDE
2	<b>Present Designation</b>	ASSOCIATE PROFESSOR
3	<b>Department</b>	DOSR IN BIOCHEMISTRY
4	<b>Date of Birth</b>	03/03/1967
5	<b>Date of entry into service in Tumkur University</b>	17/9/2011
6	<b>Date of entry into the Present Designation</b>	17/9/2011
7	<b>Residential Address</b>	FLAT-1, 1 <sup>ST</sup> FLOOR, DIVYA PRADEEP BUILDING, BESIDES POLICE QUARTERS, 11 <sup>TH</sup> CROSS , ASHOK NAGAR, TUMKUR-572103
8	<b>Mobile Number</b>	+919449157975
9	<b>Email ID</b>	<a href="mailto:drmanoharshinde@tumkuruniversity.in">drmanoharshinde@tumkuruniversity.in</a>
10	<b>PAN No.</b>	BHOPSA2418A
11	<b>Aadhar Card Id No.</b>	5414 6012 5586
12	<b>Passport No.</b>	

13	<b>Academic Qualification</b>		
	<b>Degree</b>	<b>University</b>	<b>Year of Award</b>
a	Post Graduate Degree	GULBARGA UNIVERSITY	1991
b	Pre. Ph.D	GULBARGA UNIVERSITY	1993
c	Ph.D.	GULBARGA UNIVERSITY	1999
	Ph.D. Topic:	MICROBIAL DEGRADATION OF AROMATIC HYDROCARBONS	
	Guided By:	DR. T. B. KAREGOUDAR	
14	NET – Year of Passing		
15	SLET/KSET – Year of Passing		
16	<b>Area of Research Specialization</b>	BIOMARKER DISCOVERY, METABOLOMICS, PROTEOMICS, BIOANALYTICAL DEVELOPMENT, FORMULATION AND PRODUCT DEVELOPMENT BIOPROCESS DEVELOPMENT, MOLECULAR METABOLISM & BIOREMEDIATION,	

17	<b>Teaching Experience</b>			
	<b>Designation</b>	<b>From</b>	<b>To</b>	<b>Place</b>
	GUEST LECTURER	AUG. 1992	APR. 1995	GULBARGA UNIVERSITY
	LECTURER	JUNE 1995	MAY 2002	SMT. V. G. COLLEGE FOR WOMEN, GULBARGA
	SENIOR GRADE LECTURER	MAY 2002	MAY 2005	
	READER	MAY 2005	JUNE 2006	MVJ COLLEGE OF ENGG, BENGALURU
	PROFESSOR	JUNE 2006	DEC. 2007	
	ASSOCIATE PROFESSOR	SEPT. 2011	TILL DATE	TUMKUR UNIVERSITY

18	Administrative Experience			
	Designation	From	To	Place
	HEAD, DEPT. OF BIOTECHNOLOGY	JUNE 1995	MAY 2005	SMT. VGCW GULBARGA
	HEAD, DEPT. OF BIOTECHNOLOGY	MAY 2005	DEC. 2007	MVJ COLLEGE OF ENGG,
	SENIOR SCIENTIST AND CHAMPION OF NEW ENZYME PROJECT	2007	2008	NOVOZYMES SOUTH ASIA INC
	HEAD, BIOMARKER & BIOANALYTICAL DIV	2008	SEPT. 2011	AVASTHAGEN LTD. BENGALURU
	CHAIRMAN DOSR BIOCHEMISTRY	OCT. 2011	SEPT. 2012	TUMKUR UNIVERSITY
	MEMBER BOS BIOTECHNOLOGY (UG)	2002	2003	GULBARGA UNIVERSITY
	MEMBER BOS BIOTECHNOLOGY (UG)	2004	2005	KSW UNIVERSITY, BIJAPUR
	CHAIRMAN BOE BIOTECHNOLOGY (UG)	2004	2005	KSW UNIVERSITY, BIJAPUR
	CHAIRMAN BOE BIOTECHNOLOGY (UG)	2005	2007	VTU BELGAUM
	MEMBER BOS BIOTECHNOLOGY	2008	2009	VTU BELGAUM
	MEMBER BOA BIOTECHNOLOGY (PG)	2010	2011	DR.BAM UNIVERSITY AURANGABAD (MS)
	MEMBER BOE BIOCHEMISTRY (PG)	2011	2013	TUMKUR UNIVERSITY
	CHAIRMAN BOS BIOCHEMISTRY (PG)	2011		TUMKUR UNIVERSITY
	MEMBER BOS BIOSCIENCE, SANSKRIT...	2012		TUMKUR UNIVERSITY
	EXPERT MEMBER, SELECTION COMMITTEE	APR. 2012		TUMKUR UNIVERSITY
	EXPERT MEMBER, SELECTION COMMITTEE	OCT. 2012		TUMKUR UNIVERSITY
	MEMBER EXPERT COMMITTEE (TENDER EVALUATION)	2012		TUMKUR UNIVERSITY
	MEMBER AND CHAIRMAN LIC	2012-13; 2013-14		TUMKUR UNIVERSITY
	COORDINATOR BOE FOOD SCIENCE (D.Sc.)	2013		TUMKUR UNIVERSITY
	MEMBER BOS FOOD SCIENCE	2013		TUMKUR UNIVERSITY
	EXPERT MEMBER, RESEARCH CENTRE RECOGNITION COMMITTEE	2013		SVI RURAL HEALTH CENTRE YERFGC PAVAGADA
	GOVERNING COUNCIL MEMBER	2013		SSFGCT (UNIVERSITY NOMINEE)
	CONVEYNER, VARIOUS COMMITTES	2011	2013	TUMKUR UNIVERSITY
19	Research Guidance			
A	Ph.D.			
	Name of Student	Thesis		Year
B	M.Phil.			
	Name of Student	Thesis		Year

20	<b>Papers Presented/ Lecturers Delivered/ Sessions Chaired in Conference and Symposia (International)</b>	(Tick below)		
	Details	Paper Presented	Lecture Delivered	Session Chaired
	International Conference on Yoga in Education Tumkur University 27- 28/11//2012			√
21	<b>Papers Presented/ Lecturers Delivered/ Sessions Chaired in Conference and Symposia (National)</b>	(Tick below)		
	Details <b>ATTENDED AND PRESENTED PAPERS IN 62 CONFERENCES</b>	Paper Presented	Lecture Delivered	Session Chaired
	<b>RECENT ACTIVITY IS SINCE 2011 IS SHOWN BELOW</b>			
	Delivered an invited Special lecture on March 22, 2013 on 'Systems approach on the development of microbial processes for the bioremediation of environmental pollution' in a two days National seminar on Environmental Pollutants (UGC-SAP) held at Dept. of Biochemistry, Gulbarga University		√	
	Delivered an invited Lead lecture on March 23, 2013 on 'Systems biology approach to develop herbal medicine' in a two days National conference "New frontiers in herbal products and herbal medicines" held at PG Dept. of Herbal Technology, S. M. Dnyandeo Mohekar Mahavidyalaya, Kalamb		√	√
	Manohar Shinde (2012) National conference on Recent trends in food science and nutrition research. 30/10/2012 National College Bengaluru			√
	International Conference on Yoga in Education Tumkur University 27- 28/11//2012			√
	Symposium on software solutions for life science, material science .... 03/12/2012, Tumkur University			√
	National conference on challenges and opportunities for chemical sciences in 21 <sup>st</sup> century. KSHEC Bengaluru 08/01/2013	√		
	Participated in National conference on Recent discoveries on protein science. 31/01/2013, KSHEC Bengaluru			√
	National Seminar on Environmental Bioremediation March 22, 2013, Dept. Biochemistry, Gulbarga University	√		
	National conference on New frontiers in herbal products and herbal medicine SMDM Mahavidyalay, Kalamb 23-24/3/13	√		
	Presented paper in Vignyana Kannada-7 Kannada Sammelana, Karnataka Science Congress held at Gulbarga between 15-17 /9/ 2011	√		
	National workshop on Biotechnology for health and environment in future CSIR sponsored workshop, conducted at SIET Tumkur 22/10/2011		√	
	National conference on recent trends in food science and nutrition research conducted by Tumkur University, Mayas Food Research Centre Jain University at Jain University on 15/12/ 2011			√
	National conference on perspectives on health benefits of therapeutic molecules conducted by Tumkur University and KSHEC Bengaluru at Karnatak state Higher Education Council on 06/1/2012	√		
	National conference in Integrative plant biology and agri-biotechnology conducted by Tumkur University and Karnatak state Higher Education Council at KSHEC Bengaluru on 13/1/2012			√
	National conference on molecular diagnosis conducted by Tumkur University in association with ICMR by DOSR in Biochemistry, Tumkur University on 13/7/2012			√

22	<b>Books</b>	
	<b>Chapters</b>	
	Details	
23	<b>Research Publications in Refereed Journals</b>	
	Details	
1	Ziayoddin M, Manohar shinde and J.Lalitha (2013) Production of Alkaline Arylsulfatase by Carrageenan Utilising Marine <i>Pseudomonas aeruginosa</i> ZSL-2. British Microbial. Res. J. (accepted)	
2	Muhammed Tajoddin, Manohar Shinde and Junna Lalitha (2013)"Effect of Soaking and Germination on Polyphenol content and Polyphenol oxidase activity of Mung bean ( <i>Phaseolus aureus</i> L.) cultivars differing in seed color" <i>International Journal of Food Properties</i> . Taylor and Francis, Published on line DOI:10.1080/10942912.2012.654702.	
3	Basawaraj A. Koti, Manohar Shinde and J.Lalitha (2013) Repeated batch production of agar-oligosaccharides from agarose by an amberlite IRA-900 immobilized agarase system <i>Biotechnology and Bioprocess Engineering</i> , 18: 333-341. DOI 10.1007/s12257-012-0237-5	
4	Muhammed Tajoddin, Manohar Shinde and Junna Lalitha (2013) "Antioxidant activities of methanol and acidic methanol extract of Mungbean ( <i>Phaseolus aureus</i> .L) cultivars differing in seed color" Current Pharma Research (Published online).	
5	Tajoddin M, Manohar Shinde and Junna Lalitha (2012) Agronomic characteristics and seed yield of Mung bean cultivars differing in seed color using organic and conventional farming in Indian subtropical region <i>The Asian and Australian J. Plant Sci and Biotechnol (AAJPB)</i> 6 (Special Issue 1):38-40 (Print ISSN 1752-3818)	
6	Ziayoddin M, Manohar Shinde and Junna Lalitha (2012) Orthogonal Array Approach for Optimization of Carrageenase Production by Solid State Fermentation of <i>Pseudomonas aeruginosa</i> ZSL-2 <i>J Microb Biochem Technol</i> , 4(4), 096-102	
7	Basawaraj A. Koti, S. Manohar and J.Lalitha (2012) Aqueous Two Phase Extraction for Purification of Alkaline Agarases of <i>Pseudomonas aeruginosa</i> AG LSL-11" <i>Preparative Biochemistry &amp; Biotechnology</i> , 42:364–377.	
8	Tajoddin M, Manohar Shinde and Junna Lalitha (2012) "Laboratory experiments illustrating evaluation of Raffinose family oligosaccharides of mung bean ( <i>Phaseolus aureus</i> L.) cultivars" <i>Indian J. Innovations Dev.</i> , 1, No.5, 390-394.	
9	Muhammed Tajoddin, Manohar Shinde and Junna Lalitha (2011) Phytic acid and mineral contents of some mung bean cultivars. <i>Journal of food Legumes</i> 24 (2) 163-164	
10	M.D. Tajoddin, M. Shinde and J. Lalitha (2011) <i>In vivo</i> Reduction the Phytic Acid Content of Mung Bean ( <i>Phaseolus aureus</i> L) Cultivars during Germination. <i>American-Eurasian J. Agric. &amp; Environ. Sci.</i> 10 (1): 127-132, 2011. ISSN 1818-6769.	
11	Muhammed Tajoddin, Manohar Shinde and Junna Lalitha (2011) Human Alpha amylase inhibitor activity by polyphenolic extracts of Mung bean cultivars ( <i>Phaseolus aureus</i> L.). <i>International Journal of PharmTech Research. CODEN (USA): IJPRIF</i> ISSN : 0974-4304 Vol. 3, No.1, pp 93-98	
12	Ziayoddin M, S.Manohar and J.Lalitha (2012) ಅಗರಸೆಸ್ ಮತ್ತು ಕರ್ರೇಜಿನೇಸ್ ಸ್ರವಿಸುವ ಒಂದು ಬ್ಯಾಕ್ಟೀರಿಯಾ : ಸೂಡೋಮೋನಾಸ್ ಅರುಜಿನೋಸ್ ZSL-2, in Vignana Kannada 7. 'Proceedings of 7th Kannada Vijnana Sammelana' sponsored by Karnataka Science Congress, held during 15-17 Sept. 2011 at Gulbarga. PP 43-46.	
13	Baswaraj K, S.Manohar and J.Lalitha (2012) " ಅಗಾರ್ ಮತ್ತು ಅಲ್ಟ್ರಿನೇಟಗಲನ್ನು ವಿಭಜಿಸುವ ಕಿಣ್ವಗಳು" in Vignana Kannada 7. 'Proceedings of 7th Kannada Vijnana Sammelana' sponsored by Karnataka Science Congress, held during 15-17 Sept. 2011 at Gulbarga. PP 69-70	
14	Manjula S., S.Manohar and J.Lalitha (2012) "ಕೃಷಿ ತ್ಯಾಜ್ಯ ಬಳಸಿ ಪಾನಿಬ್ಯಾಸಿ, ರಿ. ಒಖಐ-9 ರಿಂದ ಕೈಗಾರಿಕಾ ಪ್ರಮುಖ್ಯತೆ ಹೊಂದಿದ β- ಮ್ಯಾನನೇಸ್ ಉತ್ಪಾದನೆ "in Vignana Kannada 7. 'Proceedings of 7th Kannada Vijnana Sammelana' sponsored by Karnataka Science Congress, held during 15-17 Sept. 2011 at Gulbarga. PP 71-72.	
15	Sangankal Manjula, Manohar Shinde and Junna Lalitha (2010). Agarase And β-Mannanase Production From <i>Paenibacillus Sp.</i> , MSL-9 Utilizing Diverse Polysaccharides. <i>Biotechnology</i> , Vol4, issue 4 pp.	
16	Sangankal Manjula, Manohar Shinde and Junna Lalitha (2010). Optimization of culture conditions for the production of B-mannanase from an agar utilizing <i>Paenibacillus sp.</i> MSL-9. <i>The Bioscan</i> . Vol 5(1) Pages 75-79	

17	Ziayoddin M, S. Manohar and J. Lalitha (2010). Agarase production by <i>Pseudomonas aeruginosa</i> ZLS-2 in solid state fermentation. <u>Research and Reviews in Biosciences</u> . Volume 4(1) Pages 41-44
18	Ziayoddin M, S. Manohar and J. Lalitha (2010). Isolation of agar degrading bacterium <i>Pseudomonas aeruginosa</i> ZSL-2 from a marine sample. <u>The Bioscan</u> . Volume 5(2) : 279-283, 2010
19	M. Lakshmikanth, Manohar Shinde and Lalitha Junna (2006). Purification, characterization of thermostable $\beta$ -Agarase from an <i>Acinetobacter</i> sp., AG LSL-1 <u>Process Biochemistry</u> , Volume 44, Issue 9, September 2009, Pages 999-1003. (Elsevier, USA, Impact Factor-3)
20	M. Lakshmikanth, S. Manohar, Y. Shouche and J. Lalitha, (2006) Extracellular $\beta$ -agarase producing neoagarobiose from a newly isolated agar-liquefying soil bacterium, <i>Acenitobacter</i> sp. AGLSL1. <u>Word J. Microbiol. Biotechnol</u> DOI 10.1007/s 11274-006-9147-z (Springer, USA, IF-1.8)
21	M. Lakshmikanth, S. Manohar, J. Patnakar, P. Vaishampayan, Y. Shouche and J. Lalitha, (2006) Optimization of culture conditions for the Production of extracellular agarases from newly isolated <i>Pseudomonas aeruginosa</i> AG LSL11, <u>Word J. Microbiol. Biotechnol</u> . DOI 10.1007/s 11274-005-9068-2 (Springer, USA, Impact Factor-1.8)
22	Muhammed Tajoddin, Manohar Shinde and Junna Lalitha (2010) Polyphenols of Mung Bean ( <i>Phaseolus aureus</i> L.) Polyphenol of Mung Bean ( <i>Phaseolus aureus</i> L.) Cultivars Differing in Seed Coat Color: Effect of Dehulling. <u>Journal of New Seeds</u> , Volume 11, Issue 4 October 2010, pages 369 - 379. DOI: 10.1080/1522886X.2010.520146 (IF-2)
23	Hussain N J, Manohar S and Karegoudar T B (2003) Degradation of dimethylphthalate by <i>Bacillus</i> sp. <u>Res. J. Chem. Environ</u> . 7(1), 57-61.
24	Shinde Manohar, C K Kim and Karegoudar T B (2001) Enhanced degradation of naphthalene by <i>Pseudomonas</i> sp Strain NGK1 immobilized in polyurethane. <u>App. Microbial. Biotechnol</u> 55, 311-316. (Springer, USA, IF-3.75)
25	Shinde Manohar, C-K Kim and TB Karegoudar (1999) Production of salicylic acid from naphthalene by immobilized <i>Pseudomonas strain NGK1</i> . <u>J. Microbial. Biotechnol</u> . 9(04), 482-487. (Springer, USA, I Factor-2.5)
26	Shinde Manohar, Chi-Kyung Kim and Thimmanagouda B Karegoudar (1999) Degradation of anthracene by a <i>Pseudomonas</i> sp. strain NGK1. <u>J. Microbial</u> . 37(2), 73-79. (KoSM & Springer, USA, Impact Factor-2.6)
27	S Manohar and T B Karegoudar (1998) Degradation of naphthalene by cell of <i>Pseudomonas</i> sp. strain NGK1 immobilized in alginate, agar & polyacrylamide. <u>Appl. Microbiol. Biotechnol</u> . 49, 785-792 (Springer, USA, I F-3.75)
28	Shinde Manohar and T B Karegoudar (1996) Effect of nitrogen source on the bacterial degradation of naphthalene. <u>Proc. Acad Environ. Biol</u> . 5(1), 111-117.
29	S B Mashetty, S Manohar and T B Karegoudar (1996) Degradation of 3-hydroxybenzoic acid by a <i>Bacillus</i> sp Indian <u>J. Biochem. Biophys</u> . 33, 145-148. (CSIR, NISCAR IF-0.6)
30	S B Mashetty, S Manohar and T B Karegoudar (1995) Degradation of 4-hydroxybenzoic acid by bacterium. <u>Indian J Environ. Hlth</u> . 37(2), 88-94. (NEERI, India IF 0.4)
31	S Manohar and T B Karegoudar (1995) Degradation of naphthalene by <i>Pseudomonas</i> strain NGK1. <u>Indian J. Exp. Biol</u> . 33, 353-356. (CSIR, NISCAR, Impact Factor-0.5)
32	<b>Shinde M and Junna L, (2009) <i>Pseudomonas aeruginosa</i> strain SML 16S ribosomal RNA gene, partial sequence. 1443 bp partial sequence LOCUS, Accession GQ915373 1443 bp DNA linear, deposited in gene bank. (GQ915373, NCBI, USA)</b>
33	Manjula,S., Manohar,S. and Lalitha,J (2009) 1432 bp DNA linear, <i>Paenibacillus</i> sp. MSL-9 16S ribosomal RNA gene, partial sequence deposited in gene bank (ACCESSION FJ859876, NCBI, USA)
34	Kulkarni,S., Manohar,S. and Lalitha,J (2009) <i>Ochrobacterum</i> sp. AG/AL-9 16S ribosomal RNA gene, partial sequence (ACCESSION GQ915374, VERSION GQ915374.1 GI:258678261, NCBI, USA)
35	Ziayoddin,M., Manohar,S. and Lalitha,J (2009) <i>Pseudomonas aeruginosa</i> strain ZSL-2 16S ribosomal RNA gene, partial sequence (ACCESSION FJ853495 VERSION FJ853495.1 GI:226452521, NCBI, USA)
36	Lakshmikanth,M., <b>Manohar S</b> , Savithri S, AppajiRao N, Vaishampayan P, Shouche Y. Lalitha J <b>(2005)</b> . cDNA sequence of 16S rRNA gene of agarase-producing <i>P. aeruginosa</i> , deposited in gene bank <b>(DQ 202265, NCBI, USA)</b>
37	Lakshmikanth M, <b>Manohar S</b> , Vaishampayan P, Patankar J, Shouche, Y and Lalitha J <b>(2005)</b> cDNA sequence of 16 S rRNA gene of agarase-producer <i>Acenitobacter</i> sp., deposited in gene bank. <b>(DQ 152256, NCBI, USA)</b>

24	<b>Research Projects</b>			
<b>A</b>	<b>On going</b>			
	<b>Title of Project</b>	<b>Funding Agency</b>	<b>Duration</b>	<b>Amount Sanctioned</b>
<b>B</b>	<b>Completed</b>			
	<b>Title of Project</b>	<b>Funding Agency</b>	<b>Duration</b>	<b>Amount Sanctioned</b>
	Expression of naphthalene degrading enzymes.	UGC	2004-2006	100000
	Production of alkaline agarases from <i>Acetenobacter sp...</i>	UGC	2008-2012	1800000
	Production of multiple agarases from marine <i>P. aeruginosa...</i>	DST	2008-2012	2300000
	Novel Enzyme for juice and wine at Novozymes	In-house project	2007-2008	
	Metabolomics and proteomics Disease Biomarker Development, phytochemical Lead development, Bioanalytical Development and product development projects -14 projects at Avesthagen Ltd	Avesthagen Ltd. In-house Projects	2008-2011	
25	<b>Membership of Professional Organizations</b>			
	LIFE MEMBER- SOCIETY OF BIOLOGICAL CHEMISTS OF INDIA (SBCI)			
	MEMBER ACADEMY OF ENVIRONMENTAL BIOLOGY, INDIA			
	5 YEARS MEMBERSHIP OF ANZSMS			
	5 YEARS MEMBERSHIP OF ASMS			
26	<b>Official Foreign Visits</b>			
	Nil			