

FACULTY PROFILE



1.	Name	:	Dr. Maruti Jayram Dhanavade																																			
2.	Educational Qualifications	:	M.Sc., PhD., SET																																			
3.	Designation	:	Assistant Professor																																			
4.	Address for Communication	;	A/P Koyanavasahat, Karad, Tal- karad, Dist- Satara, Pin-415539.																																			
5.	E-mail Id	:	marutijd@gmail.com																																			
6.	Mobile No.	:	+917071861212, +918956075403																																			
7.	Experience	:	4 years																																			
	a)	Teaching - UG	:	-																																		
		PG	:	4 years																																		
	b)	Research-	:	10 years																																		
8.	Details of Qualifications	:																																				
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Sr.</th> <th>Exam.</th> <th>Board / University</th> <th>Year</th> <th>Specialisation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SSC</td> <td>Maharashtra State</td> <td>2002</td> <td>Eng, Hin-Sank, Maths, Sci, Soc. Sci</td> </tr> <tr> <td>2</td> <td>HSC</td> <td>Maharashtra State</td> <td>2005</td> <td>Eng, Mar, Phy, Chem, Maths, Bio</td> </tr> <tr> <td>3</td> <td>B.Sc.</td> <td>Shivaji University</td> <td>2008</td> <td>Microbiology</td> </tr> <tr> <td>4</td> <td>M.Sc.</td> <td>Shivaji University</td> <td>2010</td> <td>Microbiology</td> </tr> <tr> <td>5</td> <td>PhD.</td> <td>Shivaji University</td> <td>2016</td> <td>Microbiology</td> </tr> <tr> <td>6</td> <td>SET</td> <td>Pune University</td> <td>2017</td> <td>Life Science</td> </tr> </tbody> </table>				Sr.	Exam.	Board / University	Year	Specialisation	1	SSC	Maharashtra State	2002	Eng, Hin-Sank, Maths, Sci, Soc. Sci	2	HSC	Maharashtra State	2005	Eng, Mar, Phy, Chem, Maths, Bio	3	B.Sc.	Shivaji University	2008	Microbiology	4	M.Sc.	Shivaji University	2010	Microbiology	5	PhD.	Shivaji University	2016	Microbiology	6	SET	Pune University	2017	Life Science
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9.	CAREER PROFILE	:																																				

A]	Post Graduate Level:		
i.	Department of Microbiology, Shivaji University Kolhapur	2016-2019	4 Years
ii.			
Total Teaching Experience (PG):			4 Years

10.	RESEARCH CONTRIBUTION	:	
a)	Research Papers Published	:	International journals- 30

Sr.	Title of the Paper	Journal, ISSN& IF	Vol. No., Year, Page No.	Author/ Co-author
1	Amyloid beta peptide-degrading microbial enzymes and its implication in drug design.	3 Biotech (IF- 1.7)	2020, 10 (6), 247-256.	Maruti J. Dhanavade, KD Sonawane
2	Molecular modeling approach to explore the role of cathepsin B from <i>Hordeum vulgare</i> in the degradation of A β peptides	Molecular Biosystems (IF- 3.2)	2016, 12:162-168.	Maruti J. Dhanavade, Rishikesh S. Parulekar, Subodh A. Kamble and Kailas D. Sonawane
3	Insights into the molecular interactions between aminopeptidase and amyloid beta peptide using molecular modeling techniques.	Amino Acids (IF- 3.9)	2014, 46, 1853–1866	Maruti J. Dhanavade and Kailas D. Sonawane
4	Homology modeling, molecular docking and MD simulation studies to investigate role of cysteine protease from <i>Xanthomonas campestris</i> in amyloid beta degradation.	Computers in Biology and Medicine (IF- 3.4)	2013, 43, 2063–2070.	Maruti J. Dhanavade, Chidambar B. Jalkute, Sagar H. Barage and Kailas D. Sonawane
5	Study antimicrobial activity of lemon (<i>Citrus lemon L</i>) peel extract.	British Journal of Pharmacology and Toxicology	2011, 2(3), 119122.	Maruti J. Dhanavade, Chidamber B. Jalkute, Kailas D. Sonawane and Jai S.Ghosh
6	Molecular Dynamics Simulation and Molecular Docking Studies of Angiotensin Converting Enzyme with Inhibitor Lisinopril and Amyloid Beta Peptide.	The Protein Journal (IF- 1.3)	2013, 32, 356-364.	Chidamber B. Jalkute, Sagar H. Barage, Maruti J. Dhanavade , Kailas D. Sonawane
7	Homology modeling, molecular docking and DNA binding studies	The Protein Journal (IF- 1.3)	2013, 32, 467-476.	Rishikesh S. Parulekar, Sagar H. Barage, Chidambar B. Jalkute, Maruti J. Dhanavade and Kailas D.

	of nucleotide excision repair UvrC protein from M. Tuberculosis.			Sonawane
8	Virtual screening and molecular dynamics simulation study of hECE-1 protease inhibitors.	Research Journal of Pharmaceutical, Biological and Chemical Sciences	2013, 4(1), 1279-1291.	Sagar H. Barage, Chidamber B. Jalkute, Maruti J. Dhanavade , Kailas D. Sonawane
9	Simulated interactions between Endothelin converting enzyme and A β peptides: insights into subsite recognition and cleavage mechanism.	Int. J of Peptide Research and Therapeutics (IF-1.5)	2014, 20, 409–420.	Sagar H. Barage, Chidambar B. Jalkute, Maruti J. Dhanavade and Kailas D Sonawane
10	Identification of Angiotensin Converting Enzyme Inhibitor: An In Silico Perspective.	Int. J of Peptide Research and Therapeutics (IF-1.5)	2015, 21, 107–115.	Chidambar B. Jalkute, Sagar H. Barage, Maruti J. Dhanavade , Kailas D Sonawane
11	Decoration of biogenic AgNPs on template free ZnO nanorods for sunlight driven photocatalytic detoxification of dyes and inhibition of bacteria.	J Mater Sci: Mater Electron (IF-2.2)	2016, 27, 11080–11091.	N. L. Gavade, A. N. Kadam, Y. B. Gaikwad, M. J. Dhanavade , K. M. Garadkar
12	Enhanced photocatalytic activity of europium doped TiO ₂ under sunlight for the degradation of methyl orange, J Mater Sci: Mater Electron.	J Mater Sci: Mater Electron (IF-2.2)	2017, 1(1):1 DOI:10.1007/s10854-017-6883-9	Khade G. V., Gavade N. L., Suwarnkar M. B., Dhanavade M. J. , Sonawane K. D., Garadkar K. M.
13	Phylogenetic, Sequence Analysis and Structural Studies of Maturase K Proteins from Mangroves.	Current Chemical Biology,	2016, 10, 135-141.	Sambhaji B. Thakar, Maruti J. Dhanavade and Kailas D Sonawane
14	Synthesis and Potential Antibacterial Activities of 2-Chloro-N-(4Phenylthiazol-2-yl) Acetamide Derivatives,	Der Pharma Chemica	2016, 8(20):292-297.	Raut D. G., Sonawane K. D., Jadhav S. Y., Sonawane V. D., Jadhav D. B., Dhanavade M. J. and Bhosale R. B.
15	Purification and characterization of SDS stable protease from	Biocatalysis and Agricultural	2017, 10, 91-95.	Jalkute C. B., Waghmare S. R., Nadaf N. H., Dhanavade M. J. , Jadhav D. B.,

	Bacillus safensis strain CK,	Biotechnology		Pendhari S. I., Patil R. S., Sonawane K. D.
16	LegumeDB: Development of Legume Medicinal Plant Database and comparative molecular evolutionary analysis of matK proteins of legumes and mangroves.	Current nutrition and food science	2018, 15 (4), 353-362	Sambhaji B. Thakar, Maruti J. Dhanavade and Kailas D. Sonawane
17	Biofilm inhibition mechanism from extract of Hymenocallis littoralis leaves.	J Ethnopharmacol., (IF- 3.6)	2018, 222:121-132.	Nadaf N. H., Parulekar R. S., Patil R. S, Gade T. K., Momin A. A., Waghmare S. R., Dhanavade M. J. , Arvindekar A. U., Sonawane K. D.
18	Water Mediated Synthesis of Anthelmintic Piperidinols and Their Molecular Docking Studies.	Chemistry Select Journal (IF- 1.8)	2018, DOI: 10.1002/slct.201800375.	Jagadale M. B., Salunkhe R. S., Rajmane M. M., Dhanavade M. J. , Sonawane K. D., Rashinkar G. S.
19	Aerosil-Supported Ionic-Liquid-Phase (ASILP) Mediated Synthesis of 2-Substituted Benzimidazole Derivatives as AChE Inhibitors.	Chemistry Select Journal (IF- 1.8)	2018, DOI: 10.1002/slct.201702969.	Babasaheb Sonawane, Gajanan Rashinkar, Kailas Sonawane, Maruti Dhanavade , Vikas Sonawane, Suresh Patil
20	Synthesis and characterization of zinc oxide nanoparticles by using polyol chemistry for their antimicrobial and antibiofilm activity.	Biochemistry and biophysics reports	2019, 17, 71-80.	Mahamuni P. P., Patil P. M., Dhanavade M. J. , Badiger M. V., Shadija P. G., Lokhande A. C., Bohara R. A.
21	Molecular Insights into Destabilization of Alzheimer's A β Protofibril by Arginine Containing Short Peptides: A Molecular Modeling Approach.	ACS Omega (IF- 2.8)	2019, 4 (1), 892-903.	Barale S. S., Parulekar R. S., Fandilolu P. M., Dhanavade M. J. , Sonawane K. D.
22	"Computational Approaches to Understand Cleavage Mechanism of Amyloid Beta (A β) Peptide" Published in book "Computational	Springer Neuromethods	2017, Chapter 11, 263282.	Kails D. Sonawane and Maruti J. Dhanavade

	Modeling of Drugs Against Alzheimer's Disease			
23	"Molecular docking technique to understand enzyme-ligand Interactions" Published in book "Methods and Algorithms for Molecular Docking-Based Drug Design and Discovery"	IGI Global	2015, Chapter 10, 245-264.	Kailas D Sonawane and Maruti J. Dhanavade
24	CP ₂ ZRCL ₂ : An efficient catalyst for multicomponent synthesis of carotenoid dehydrosqualene synthase inhibiting pyrano[2, 3-d]pyrimidinediones.	Asian J Pharm Clin Res,	2019, 12(2), 280-288.	Babasaheb D. Sonawane, Vikas D. Sonawane, Kailas D. Sonawane, Maruti J. Dhanavade , Chetan B. Aware, Sharad K. Awate, Suresh V. Patil
25	Evaluation of drug candidature: In silico ADMET, binding interactions with CDK7 and normal cell line studies of potentially anti-breast cancer enamidines.	Computational Biology and Chemistry (IF- 1.8)	2019, 83, 107124.	Prakash Bansode, R Anantacharya, Maruti Dhanavade , Subodh Kamble, Sagar Barale, Kailas Sonawane, Nayak D Satyanarayan, Gajanan Rashinkar
26	Design, Synthesis, Characterization, Anti-Inflammatory and Antioxidant Evaluation of Certain Novel Pyrazoline Derivatives Containing Imidazo[2,1-b]thiazole Moiety,	Asian Journal of Organic & Medicinal Chemistry	2020, 5(1): 45-50	V.D. Sonawane, B.D. Sonawane, M.J. Dhanavade , K.D. Sonawane and R.B. Bhosale
27	Role of cell surface vimentin in Chandipura virus replication in Neuro-2a cells.	Virus Research (IF- 2.9)	2020, 198014.	Vishal K Kavathekar, Maruti J Dhanavade , Kailash D Sonawane, Anukumar Balakrishnan
28	Electrospun poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/polyethylene oxide (PEO) microfibers reinforced with ZnO nanocrystals	New J. Chem. (IF- 3.2)	2020, 44, 9754-9766.	Pranjali P Mahamuni-Badiger, Pooja M Patil, Pratikshkumar R Patel, Maruti J Dhanavade , Manohar V Badiger, Yogesh N Marathe, Raghvendra A Bohara

	for antibacterial and antibiofilm wound dressing applications.			
29	Homology modeling and docking studies of TMPRSS2 with experimentally known inhibitors Camostat mesylate, Nafamostat and Bromhexine hydrochloride to control SARS-Coronavirus-2.	ChemRxiv	2020	Kailas Sonawane, Sagar S Barale, Maruti J Dhanavade , Shailesh R Waghmare, Naiem H Nadaf, Subodh A Kamble, Ali Abdulmawjood Mohammed, Asiya M Makandar, Prayagraj M Fandilolu, Ambika S Dound, Nitin M Naik, Naiem H Nadaf, Subodh A Kamble
30	Anticancer, Antibacterial and Hyperthermia Studies of a Caffeine-Based <i>N</i> -Heterocyclic Carbene Silver Complex Anchored on Magnetic Nanoparticles.	Chemistry Select Journal (IF- 1.7)	2021, 6: 1958-1968.	Shivanand P Gajare, Prakash A Bansode, Pradnya V Patil, Audumbar D Patil, Dattaprasad M Pore, Kailas D Sonawane, Maruti J Dhanavade , Vishwajeet M Khot, Gajanan S Rashinkar

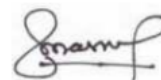
b) Research Papers Presented : 6

Sr.	Title of the Paper	Name of the Conference	Date
1	Maruti J Dhanavade , Sagar H Barage, Chidamber B Jalkute and Kailas D Sonawane. Insight into the cleavage mechanism of amyloid beta peptide by Cathepsin B like cysteine protease from <i>Xanthomonas campestris</i> : homology modeling and molecular docking approach.	International symposium of proteomics beyond ID's and Foruth annual meeting of proteomics society of India. Organized by National Chemical Laboratory, Pune	22 th to 24 th November 2012.
2	Maruti J. Dhanavade , Sagar H. Barage, Chidambar B. Jalkute and Kailas D. Sonawane "Homology modeling study of Cathepsin B (CatB) from <i>Rhodopirellulabaltica</i> "	International Conference on "Biotechnology for Better Tomorrow"(BTBT 2011) at Department of Microbiology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad , Sub-center Osmanabad, Maharashtra, (INDIA). OMM-13, Page-78,	Feb 6-9, 2011.
3	Maruti J Dhanavade , Sagar H Barage, Chidamber B Jalkute, and Kailas D Sonawane "Molecular Docking and MD simulation study of aminopeptidase and A β peptide"	Symposium on "Accelerating Biology 2012: Computing to decipher" organized by Bioinformatics group, Center for	15-17 th February 2012

	Page-78.	Development of Advanced Computing PuneIndia																					
4	Sagar H Barage, Chidamber B Jalkute, Maruti J Dhanavade and Kailas D Sonawane “Molecular dynamic simulation of whole ECE-1 enzyme with lipid bilayer” Page-93.	“Symposium on Accelerating Biology 2012: Computing to decipher” organized by Bioinformatics group, Center for Development of Advanced Computing Pune India	15-17 th February 2012																				
5	Chidambar B. Jalkute, Sagar H. Barage, Maruti J. Dhanavade and Kailas D. Sonawane “Virtual screening and molecular dynamics simulation study of ACE inhibitors” P24,	‘Conference on Informatics & Integrative Biology (CIIB-2011)’ organized by Bioinformatics centre, Bose institute, Kolkata, India.	14-16 December 2011.																				
6	Maruti J. Dhanavade , Sagar H. Barage, Chidamber B. Jalkute and Kailas D. Sonawane “Homology Modeling, Molecular dynamic simulation and Molecular Docking study of plant Cathepsin B for finding possible A β peptide degrading enzymes from plant”, page no 76	Presented in “COLS” organized by Department of Biochemistry, Microbiology and Biotechnology Shivaji University, Kolhapur, India (M.S.)	2013																				
11.	PARTICIPATION IN KNOWLEDGE EVENTS	:	6																				
12.	WEBINARS ATTENDED	:	12																				
13.	INVITED LECTURES/KEYNOTE ADDRESSES/SESSION CHAIRS	:	3																				
<table border="1"> <thead> <tr> <th>Sr.</th> <th>Invited as</th> <th>Conference /Event</th> <th>Organisation</th> <th>Date(s)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Resource person</td> <td>NET SET Coaching workshop</td> <td>Devchand college, Nipani</td> <td>2019</td> </tr> <tr> <td>2</td> <td>Resource person</td> <td>Revised Syllabus workshop</td> <td>YCIS Satara</td> <td>2019</td> </tr> <tr> <td>3</td> <td>Key note speaker</td> <td>Guest lecture series</td> <td>AMITY University Mumbai</td> <td>2020</td> </tr> </tbody> </table>				Sr.	Invited as	Conference /Event	Organisation	Date(s)	1	Resource person	NET SET Coaching workshop	Devchand college, Nipani	2019	2	Resource person	Revised Syllabus workshop	YCIS Satara	2019	3	Key note speaker	Guest lecture series	AMITY University Mumbai	2020
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DECLARATION:

I hereby declare that all the above information is correct to the best of my knowledge.



Place: Sangli

(Dr. Maruti Jayram Dhanavade)