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	:	04 years
	b)	Research-	:	12 years
8.	**Details of Qualifications**		:	

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

9.	**CAREER PROFILE**		:	

A]	Post Graduate Level:		
i.	Department of Microbiology, Shivaji University Kolhapur	2016-2019	4 Years
ii.			
Total Teaching Experience (PG):			04 Years

10.	RESEARCH CONTRIBUTION	:	
	a) Research Papers Published	:	**International journals- 45**

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 Hordeum vulgare in the degradation of Aβ 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 Xanthomonas campestris 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 (Citrus lemon L) 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 of nucleotide excision repair UvrC protein from M. Tuberculosis.	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. Sonawane
8	Virtual screening and molecular dynamics simulation study of hECE-1 protease inhibitors.	Research Journal of Pharmaceutical, Biological	2013, 4(1), 1279-1291.	Sagar H. Barage, Chidamber B. Jalkute, **Maruti J. Dhanavade**, Kailas D. Sonawane

		and Chemical Sciences		
9	Simulated interactions between Endothelin converting enzyme and Aβ 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 TiO2 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 Bacillus safensis strain CK,	Biocatalysis and Agricultural Biotechnology,	2017, 10, 91-95.	Jalkute C. B., Waghmare S. R., Nadaf N. H., **Dhanavade M. J.**, Jadhav D. B., Pendhari S. I., Patil R. S., Sonawane K. D.
16	LegumeDB: Development of Legume Medicinal Plant Database and comparative molecular	Current nutrition and food science	2018, 15 (4), 353-362	Sambhaji B. Thakar, **Maruti J. Dhanavade** and Kailas D. Sonawane

	evolutionary analysis of matK proteins of legumes and mangroves.				
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 Aβ 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 (Aβ) Peptide" Published in book "Computational Modeling of Drugs Against Alzheimer"s Disease"	Springer Neuromethods	2017, Chapter 11, 263282.	Kails D. Sonawane and **Maruti J. Dhanavade**
23	"Molecular docking technique to understand enzyme-ligand	IGI Global	2015, Chapter 10, 245-264.	Kailas D Sonawane and **Maruti J. Dhanavade**

	Interactions" Published in book "Methods and Algorithms for Molecular Docking-Based Drug Design and Discovery"			
24	CP_2ZRCL_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 for antibacterial and antibiofilm wound dressing applications.	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
29	Homology modeling and docking studies of TMPRSS2 with	ChemRxiv	2020	Kailas Sonawane, Sagar S Barale, **Maruti J Dhanavade**, Shailesh R Waghmare, Naiem H Nadaf,

	experimentally known inhibitors Camostat mesylate, Nafamostat and Bromhexine hydrochloride to control SARS-Coronavirus-2.			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 *N*-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
31	Structural insights and inhibition mechanism of TMPRSS2 by experimentally known inhibitors Camostat mesylate, Nafamostat and Bromhexine hydrochloride to control SARS-coronavirus-2: A molecular modeling approach	Informatics in Medicine Unlocked	24, 2021, 100597.	Kailas D 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, Vikramsinh B More
32	Structural significance of Neprylysin from Streptococcus suis GZ1 in the degradation of Aβ peptides, a causative agent in Alzheimer's disease	Computers in Biology and Medicine	136, 104691.	Subodh Kamble, Sagar Barale, Maruti Dhanavade, Kailas Sonawane
33	Role of Nutrition in COVID-19: Present Knowledge and Future Guidelines	Current Nutrition and Food Science	18 (6), 516-517.	Maruti Jayram Dhanavade and Kailas Dashrath Sonawane
34	Exploring bioactive peptides as potential therapeutic and biotechnology treasures: A contemporary perspective	Life Sciences	301, 120637, 1-17.	Prasanna J. Patil, Shubham S. Sutar, Muhammad Usman, Devashree N. Patil, Maruti J. Dhanavade, Qayyum Shehzad, Arshad Mehmood, Haroon Shah, Chao Teng, Chengnan Zhang, Xiuting Li
35	Modifying Thermostability and Reusability of Hyperthermophilic Mannanase by Immobilization on	Biomolecules	12 (7), 999	Beenish Sadaqat, Chong Sha, Mudasir Ahmad Dar, Maruti J Dhanavade, Kailas D Sonawane, Hassan Mohamed, Weilan Shao,

	Glutaraldehyde Cross-Linked Chitosan Beads			Yuanda Song
36	Environmental pollutants and their impact on COVID- 19 spread: Current problem and future resolutions	Carbon Neutralization	2(1) 127-146.	Pooja M Patil, Arun K Parthasarathy, Abhijeet R Matkar, Pranjali Mahamuni- Badiger, Maruti J Dhanavade
37	Exploring anticancer potential of nintedanib conjugated magnetic nanoparticles: In-vitro and in-silico studies	Journal of Drug Delivery Science and Technology	81, 104213.	Rakesh P Dhavale, Rushikesh P Dhavale, Manish S Bhatia, Sagar U Jadhav, Maruti J Dhanavade, Sagar S Barale, Sachin Pathak, Vinayak G Parale, Kailas D Sonawane
38	Yeast and fungal mediated degradation of synthetic dyes,	Current Developments in Bioengineering and Biotechnology	Chapter 12, 371-409.	Maruti J Dhanavade, Prasanna J Patil
39	A polyhydroxyalkanoate synthesised by halophilic archaeon Natrialba swarupiae	Environmental Science: Advances	2, 990-1000.	Seema Prabhudev Rodge, Maruti Jayram Dhanavade, Swapnil Chandrakant Kajale, Niranjan Prakashrao Patil
40	Removal of Heavy Metals from Industrial Wastewater Using Bioremediation Approach, Book entitled	Modern Approaches in Waste Bioremediation: Environmental Microbiology	(Springer) Chapter 18, 377–407.	Pooja M Patil, Abhijeet R Matkar, Vitthal B Patil, Ranjit Gurav, Maruti J Dhanavade
41	Role of Aerated Constructed Wetlands for Municipal Wastewater Treatment	Recent Trends in Constructed Wetlands for Industrial Wastewater Treatment	(Springer) Chapter 03, 43-69.	Pooja M Patil, Rasiya C Padalkar, Abhijeet R Matkar, Ranjit Gurav, Maruti J Dhanavade
42	Molecular Modeling Insights into Metal-Organic Frameworks (MOFs) as a Potential Matrix for Immobilization of Lipase: An In Silico Study	Biology,	12(8), 1051.	Prasanna J Patil, Subodh A Kamble, Maruti J Dhanavade, Xin Liang, Chengnan Zhang, Xiuting Li
43	Bioremediation of Industrial	Advanced and Innovative	(Springer)	Pranjali Mahamuni-Badiger, Pratikshkumar R Patel,

	Wastewater Using Microorganisms: An Overview with Recent Developments, Book entitled	Approaches of Environmental Biotechnology in Industrial Wastewater Treatment	Chapter 15, 333-359.	Pooja M Patil, Ranjit Gurav, Maruti J Dhanavade
44	An Innovative and Effective Industrial Wastewater Treatments to Reduce Water Pollution: A Brief History and Present Scenario	Innovative Approaches of Environmental Biotechnology in Industrial Wastewater Treatment	(Springer) Chapter 10, 191-220.	Pooja M Patil, Rachna R Ingavale, Abhijeet R Matkar, Ranjit Gurav, Maruti J Dhanavade
45	Challenges and toxicity assessment of inorganic nanomaterials in biomedical applications: Current status and future roadmaps	Journal of Drug Delivery Science and Technology	87, 104806.	Pranjali Mahamuni-Badiger, Maruti J Dhanavade

b) Research Papers Presented : 06

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 *Xanthomonas campestris*: 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	22th to 24th November 2012.
2	**Maruti J. Dhanavade**, Sagar H. Barage, Chidambar B. Jalkute and Kailas D. Sonawane "Homology modeling study of Cathepsin B (CatB) from Rhodopirellulabaltica"	**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 Aβ peptide**"** Page-78.	**Symposium on "Accelerating Biology 2012: Computing to decipher"** organized by Bioinformatics group, Center for Development of Advanced	15-17th February 2012

		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	15-17th 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 Aβ 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

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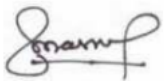
11.	**PARTICIPATION IN KNOWLEDGE EVENTS**	:	10
12.	**WEBINARS ATTENDED**	:	12
13.	**INVITED LECTURES/KEYNOTE ADDRESSES/SESSION CHAIRS**	:	03

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

DECLERATION:

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



Place: Sangli (Dr. Maruti Jayram Dhanavade)