

NAME **Dr Sheetal Shirodkar**
DESIGNATION Assistant Professor II
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RESEARCH INTERESTS *(Periodontal microbiology, Anaerobic respiration, microbial physiology and Molecular microbiology.*

EDUCATIONAL QUALIFICATIONS:

Name of College / University	Degree	Year
University of Wisconsin- Milwaukee (UWM), USA	PhD	Aug 2005- May 2010
University of Mumbai, India	M.S.	July 2001- May 2003
University of Mumbai, India	B.S.	June 1997- May 2000

Title of Ph.D. thesis: Characterization of a novel sulfite reductase system and its regulation in *Shewanella oneidensis MR-1*.

EXPERIENCE (in chronological order)

Designation	Type of post held	Name of the Institute	Year (From – To) (teaching/ research)
Assistant Professor II	Teaching, Research, Administrative	Amity Institute of Biotechnology	Feb 2017-date
Assistant Professor I	Teaching, Research, Administrative	Amity Institute of Biotechnology	Feb 2011-Jan 2017
RESEARCH ASSISTANT	Research	Daad Saffarini lab, University of Wisconsin, Milwaukee, USA.	08/ 2007 - 05/2010
Teaching Assistant	Teaching	Daad Saffarini lab, University of Wisconsin, Milwaukee, USA	08 / 2005 - 07 /2007
Lecturer	Teaching	V.G.Vaze College, MumbaiUniversity	08 / 2003 -05 / 2005
No. of Ph.D. students supervised	Awarded: (no. only) Ongoing: (no. only) 3		
PUBLICATIONS (mention total no. here)	Geetika Sharma, Nancy Garg, Shamimul Hasan, Daad Saffarini, Sheetal Shirodkar* , Fumarate and nitrite reduction by <i>Prevotella nigrescens</i> and <i>Prevotella buccae</i> isolated from Chronic Periodontitis patients, <i>Microbial Pathogenesis</i> , (Accepted)		

	<p>Nancy Garg, Geetika Sharma, Daad Saffarini, Shivani Sharda, Rachana Sahney, Sheetal Shirodkar*, Role of type IV pilin biosynthesis genes in biofilm formation of <i>Aeromonas hydrophila</i>. <i>Asia Pacific Journal of Molecular Biology and Biotechnology</i>. (Accepted)</p> <p>Pragya Saxena, Hillol Chakdar, Arjun Sing, Sheetal Shirodkar, Alok K Srivastava, Microbial diversity of <i>Azadirachta indica</i> (Neem) gum: an unexplored niche. Accepted in <i>Journal of Applied Biology and Biotechnology</i>, 2023, (11)2. DOI: 10.7324/JABB.2023.110223</p> <p>Geetika Sharma, Nancy Garg, Shamimul Hasan, Sheetal Shirodkar, <i>Prevotella</i>: An insight into its characteristics and associated virulence factors, <i>Microbial Pathogenesis</i>, Volume 169, 2022, 105673, ISSN 0882-4010, https://doi.org/10.1016/j.micpath.2022.105673.</p> <p>Saxena A, Sharda S, Kumar S, Kumar B, Shirodkar S, Dahiya P, Sahney R. Synthesis of Alginate Nanogels with Polyvalent 3D Transition Metal Cations: Applications in Urease Immobilization. <i>Polymers</i>. 2022; 14(7):1277. https://doi.org/10.3390/polym14071277</p> <p>KL Brockman, S Shirodkar, TJ Croft, R Banerjee, DA Saffarini. 2020. Regulation and Maturation of the <i>Shewanella oneidensis</i> Sulfite Reductase SirA. <i>Scientific reports</i> 10 (1), 1-12.</p> <p>A Chaudhary, S. Shirodkar and A Sharma. 2017. Characterization of Nickel Tolerant Bacteria Isolated from Heavy Metal Polluted Glass Industry for its Potential Role in Bioremediation. <i>Soil and Sediment Contamination: An International Journal</i> 26 (2), 184-194</p> <p>D Saffarini, K Brockman, A Beliaev, R Bouhenni, S Shirodkar. 2015. <i>Shewanella oneidensis</i> and Extracellular Electron Transfer to Metal Oxides. <i>Bacteria Metal Interactions</i>, 21-40</p> <p>S Shirodkar. 2015. Sulfite reduction in <i>Shewanella oneidensis</i> MR-1 requires tat secretion system. <i>Indian Journal of Microbiology Research</i> 2 (1), 14-19</p> <p>Sheetal Shirodkar, Samantha Reed, Margie Romine, and Daad Saffarini. 2011. The octaheme SirA catalyzes dissimilatory sulfite reduction in <i>Shewanella oneidensis</i> MR-1. <i>Environmental Microbiology</i> Volume 13 Issue 1, Pages 108-115.</p> <p>Rachida A. Bouhenni, Gary J. Vora, Justin C. Biffinger, Sheetal Shirodkar, Ken Brockman, Ricky Ray, Peter Wu, Brandy J. Johnson, Eulandria M. Biddle, Matthew J. Marshall, Lisa A. Fitzgerald, Brenda J. Little, Jim K. Fredrickson, Alexander S. Beliaev, Bradley R. Ringeisen, Daad A. Saffarini. 2010. The Role of <i>Shewanella oneidensis</i> MR-1 Outer Surface Structures in Extracellular Electron Transfer. <i>Electroanalysis</i> Volume 22 Issue 7-8, Pages 856-864.</p>
PATENTS (total no.)	Details:

RESEARCH PROJECTS	<i>Details:</i>
Completed: 1	Title: Isolation and Functional Characterization of Anaerobic Reductase Genes from Human Periodontal Bacterial Sources. Duration: 3 years (2016-2019) Funding agency : SERB
Ongoing: 1	Title: "Validation of Gingipain proteases as a biomarker for chronic periodontitis and its fast detection by electrochemical platform, Funding agency: DBT
AWARDS & HONOURS/ DISTINCTIONS	1. Chancellors Award- University of Wisconsin- Milwaukee, USA, 2005-2010
	2. Research Assistantship in Dr. Saffarini lab- University of Wisconsin- Milwaukee, USA, 2007-2010.
	3. Graduate School Travel Award to attend the 107 th General Meeting of American Society <i>for Microbiology</i> . University of Wisconsin- Milwaukee. 2007.
	4. Dr A.R.Kulkarni scholarship, Department of Life Sciences. University of Mumbai Kalina, India. 2002.
	5. Scholarship from Department of Life Sciences for standing 2 nd highest in the MS Part I. University of Mumbai Kalina, India. 2002
MEMBERSHIP with Professional/ Academic bodies	Life Time Membership of: -Indian Science Congress association (no. L22581). -Association of Microbiologist of India (AMI/LM-462/2013)