

Faculty Profile - VTU FACULTY ID: 4GMBT0012018

Dr. Gurumurthy D.M.

Assistant Professor,
Department of Biotechnology,
GM Institute of Technology, Davangere



Vision

“To emphasize knowledge, technologies and ethics for fine tuning myself to achieve ambitions”

Research interest

Extremophiles, exobiology, Bioelectrochemistry, Extracellular electron transport, Fuel cells and Remediation

Educational Qualifications

1	Ph.D. in Biochemistry
2	MBA in International Business
3	M.Sc. in Biochemistry
4	B.Sc. in Biochemistry, Microbiology and Botany

Professional Details

Total experience: 5.4 years (Teaching: 09 moths)

Assistant Professor , GMIT, Davangere	8 Months
Postdoctoral fellow , Institute of Urban Environment (IUE), Chinese Academy of Sciences (CAS), Xiamen, Fujian, China	3 years
Lecturer , Department of Chemistry, Sarvodaya Girls P.U. College, Shivamoga, Karnataka, India	8 months
Postdoctoral Visiting Fellow , Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research (TIFR), Mumbai, India	1 year

Academic / Research Publications		
1	<i>Geobacillus</i> sp. Iso 5, a novel amylase producing thermophile from Konkan region thermal springs in southern India, <i>Journal of Earth Science</i> . 2010. 21 (1): 318-322. ISSN: 1674-487X , IF: 1.5	International
2	Antimicrobial proprieties of different plant latex on human pathogens. <i>International Journal of Pharmacy and Pharmaceutical Science</i> . 2011. 3(4): 70-72; ISSN: 0975-1491	International
3	Identification and Characterization of a novel Halophilic <i>Bacillus cereus</i> MS6 bacteria: A source for extracellular α - amylase. <i>Advance Environmental Biology</i> . 2011. 5(5): 992-999. ISSN: 19981066	International
4	Purification and characterization of industrially viable hyperthermostable α -amylase from thermoalklophilic <i>Geobacillus</i> sp. Iso5 isolated from geothermal spring. <i>Journal of Pure and Applied Microbiology</i> . 2012. 6 (4): 1759-1773; ISSN: 0973-7510 IF: 0.4	International
5	Thermostable lipase from <i>Geobacillus</i> sp. Iso5: Bioseparation, characterization and native structural studies. <i>Journal of Basic Microbiology</i> . 2013. 54 (5): 386-396. ISSN 1521-4028. IF 1.5	International
6	CeO ₂ nanorods with high energy surfaces as electrocatalytic supports for methanol electrooxidation. <i>Electrochimica Acta</i> . 2015. 182: 1078-1084. ISSN: 0013-4686. IF: 4.8.	International
7	Improvement of settleability and dewaterability of sludge by newly prepared alkaline ferrate solution. <i>Chemical Engineering Journal</i> . 2015. 287:11-18. ISSN: 0013-4686. IF: 6.2	International
8	Enhanced bioleaching efficiency of metals from E-wastes driven by biochar, <i>Journal of Hazardous Materials</i> .2016. 320:393-400. ISSN: 0304-3894. IF: 6.1	International
9	Biodegradation of 3-Chlorobenzoate and 3-Hydroxybenzoate by Polyurethane from Immobilized Cells of <i>Bacillus</i> sp. OS13. <i>Journal of Environmental Chemical engineering</i> . 2016. 4(2): 1423-1431. ISSN: 2213-3437. IF: 1.3	International
10	Effective methods for extracting extracellular polymeric substances from <i>Shewanella oneidensis</i> MR-1. <i>Water science and technology</i> .2016. 74(12): 2987-2996. ISSN: 0273-1223. IF: 1.2.	International
11	Implication of polyphenol oxidase (PPO) immobilized in various matrices for the determination of <i>p</i> -cresol degradation. <i>3Biotech</i> . 2016. 6(2), 229. ISSN: 2190-5738. IF: 1.4.	International
12	Progress on air-diffusion cathode single-chamber microbial fuel cells. <i>Journal of Power Source</i> . 2016. 356: 245-255. ISSN: 0378-7753. IF: 6.4	International
13	Aerobic degradation of fenvalerate by a gram-positive bacterium, <i>Bacillus flexus</i> strain XJU-4. <i>3Biotech</i> . 2017. 7:320. ISSN: 2190-5738. IF: 1.4	International
14	A concise review on microbial electrochemistry in radionuclides remediation. <i>Journal of Radioanalytical and Nuclear Chemistry</i> . 2017. 314 (3): 1477-1485. ISSN: 0236-5731. IF: 1.3	International
15	Anoxic degradation of triclosan and removal of its antimicrobial effects in microbial fuel cells. <i>Journal of Hazardous Materials</i> .2018. 344: 669-678 ISSN: 0304-3894. IF: 6.1	International
16	Redox-active humics support interspecies syntrophy and shift microbial community. <i>Sci. China. Technol. Sci</i> . 2019. (Accepted). doi: 10.1007/s11431-018-9360-5. IF: 2.0	International

Books/chapter

1	Resource Recovery based on Extracellular Electron transfer. <i>In</i> Environmental Materials and Waste: Resource Recovery and Pollution Prevention. Elsevier Inc, Philadelphia PA, USA. 2017. ISBN: 978-0-12-803837-6	International
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Awards / Achievements

1	NSF Distinguished Young Scholar, 2015 (FPFA)
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Workshops / Seminars / Conference attended

1	National workshop on “Usage of Instruments for Nanotechnology Application” organized by Dept. of Nanoscience and Technology and Sinsil international, Bangalore on April 25, held at Kuvempu University, December 2009 at Kuvempu University, JnanaSahyadri, Shankaraghatta.
2	National seminar on “ Present Scenario Of Microbial Life” organized by Department of P.G studies and Research in Microbiology during 28 th to 29 th March 2011 at Kuvempu University, JnanaSahyadri, Shankaraghatta
3	DBT sponsored national seminar on “Challenges in Malaria and Other Infectious Disease Research” Organized by Department P.G Studies and Research in Biochemistry during 3 rd and 4 th May 2011 at Kuvempu University, JnanaSahyadri, Shankaraghatta
4	National Seminar on “Innovations And Applications In Engineering And Applied Sciences” Organized by Faculty of Engineering and technology during 9 th and 10 th November 2011 at Gurukul Kangri University, Haridwar, Uttarakhand, India
5	National seminar on “ Role of microbes: Past, Present and Future” organized by Department of P.G studies and Research in Microbiology during 28 th to 29 th March 2012 at Kuvempu University, JnanaSahyadri, Shankaraghatta.
6	Two days national seminar on “Chemistry-Our life our future (NSOCF-2012)” organized by Department of P.G studies and Research in Chemistry during 25 th to 26 th April 2012 at Kuvempu University, JnanaSahyadri, Shankaraghatta

Personal Details

Gender	Male
Date of Birth	15- 03-1985
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