

## FACULTY PROFILE

### Dr. SANTOSH KUMAR M

Assistant Professor

Department of Biochemistry

*Qualification* : M. Sc. Ph. D in Biochemistry

*Areas of Specialization* : Biotransformation and Bioremediation

*E mail* : santoshmudde@gmail.com

[drsantoshkumarm@davangereuniversity.ac.in](mailto:drsantoshkumarm@davangereuniversity.ac.in)

*Contact Number* : 9902878287 / 8374241232



### Vision

To develop an excellent center for quality in education, research & training by promoting the principles of scientific analysis and creative thinking.

### Educational Qualifications

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	<b>Ph.D</b>	Biochemistry	Gulbarga University	2013
2	<b>M.Phil.,</b>	--		
3	<b>NET/SLET</b>	--		
4	<b>PG</b>	Biochemistry	Gulbarga University	2006
5	<b>UG</b>	Chemistry, Botany, Zoology	Gulbarga University	2004

### Professional Details (Academic/Research Experience)

Sl. No.	Designation	Institution/University	UG/PG	From	To
1	Scientist II	Aurozymes R & D Aurobindo Pharma Ltd., Hyderabad	R & D	September 2014	September 2018
2	Senior Analyst	TUV SUD, South Asia, Bangalore	R & D	March 2013	September 2014
3					
4					

Areas of Research Interest:	
1.	Biocatalysis and Biotransformation
2.	Bioremediation and Microbial Degradation
3.	Metabolic Engineering and Industrial Biotechnology.

Academic/Administrative responsibilities:	
1.	BOS Member at Davangere University from 2019
2.	BOE Chairman at
3.	Reviewer/Editor for
4.	Worked as Head of the department at
5.	Worked as NAAC Co-ordinator at
6.	Coordinator for Health Centre Davangere University, Davangere from February 2019

Research Projects:					
Sl. No.	Title of the Project	Funding Agency	Project Budget	Period	Status
1.	Microbial degradation of nitriles and application of whole cells/enzymes for bio-catalysis and biotransformation	VGST	5 Lakh	2018-2019	Under progress
2.					
3.					

Research Publications:	
<b>a) International Journals</b>	
1.	<b>A plate method for screening of bacteria capable of degrading aliphatic nitriles. Santoshkumar M, Anand S N, Anjaneya O, Karegoudar T B. Journal of Industrial Microbiology and Biotechnology (2010) 37: 111–115. IF- 2.859</b>
2.	<b>Utilization of aliphatic nitrile by <i>Paracoccus</i> sp. SKG isolated from chemical waste samples. Santoshkumar M, Veeranagouda Y, Kyoung L, Karegoudar T B. International Biodeterioration and Biodegradation (2011) 65: 153–159. IF-3.562</b>

3.	<b>Genome of a novel isolate of <i>Paracoccus denitrificans</i> capable of degrading <i>N,N</i>-dimethylformamide.</b> Dayananda S, Karegoudar T B, <b>Santoshkumar M</b> , Narender K, Ramani B, Suma A, Niyaz A. Journal of Bacteriology (2011) 193: 5598–5599. ISSN: 0021-9193. IF-3.219
4.	<b>Purification and characterization of amidase from <i>Paracoccus sp.</i> SKG: Utilization of amidase-inhibited whole cells for bioconversion of acrylonitrile to acrylamide.</b> <b>Santoshkumar M</b> , Mukram Ismailsaba, Anand S. Nayaka, Suresh B. Mashetty Karegoudar T B. Biocatalysis and Agricultural Biotechnology (2017) 10:256–263.
5.	<b>Biosorption of acid violet dye from aqueous solutions using native biomass of a new isolate of <i>Penicillium sp.</i></b> Anjaneya O, <b>Santoshkumar M</b> , Anand S N, Karegoudar T B. International Biodeterioration and Biodegradation (2009) 63: 782–787. IF-3.562
6.	<b>Decolorization of sulfonated azo dye Metanil Yellow by newly isolated bacterial strains: <i>Bacillus sp.</i> strain AK1 and <i>Lysinibacillus sp.</i> strain AK2.</b> Anjaneyaa O, Yogesh S, <b>Santoshkumar M</b> , Karegoudar T B. Journal of Hazardous Materials (2011) 190: 351–358. IF-6.434
7.	<b>A catabolic pathway for the degradation of chrysene by <i>Pseudoxanthomonas sp.</i> PNK-04.</b> Anand S N, Sanjeevkumar S, <b>Santoshkumar M</b> , Anjaneya O, Karegoudar T B. FEMS Microbiology Letters (2011) 320: 128–134. IF-1.735
8.	<b>Generation of continuous packed bed reactor with PVA–alginate blend immobilized <i>Ochrobactrum sp.</i> DGVK1 cells for effective removal of <i>N,N</i>-dimethylformamide from industrial effluents.</b> Sanjeevkumar S, <b>Santoshkumar M</b> , Dayananda S, Karegoudar T B. Journal of Hazardous Materials (2011) 200: 58–63. IF-6.434. IF-6.434.
9.	<b><i>Paracoccus denitrificans</i> SD1 mediated augmentation with indigenous mixed cultures for enhanced removal of <i>N,N</i>-dimethylformamide from industrial effluents.</b> Sanjeevkumar S, Anand SN, <b>Santoshkumar M</b> , Siddavattam Dayananda, Karegoudar TB. Biochemical Engineering Journal (2013) 79:1-6. IF-3.226.
10.	<b>Indole-3-Acetic Acid Biosynthesis in <i>Fusarium delphinoides</i> Strain GPK, a Causal Agent of Wilt in Chickpea.</b> Kulkarni B, Sanjeevkumar S, Kirankumar B, <b>Santoshkumar M</b> , Karegoudar TB. Applied biochemistry and biotechnology (2013) 169:1-14. IF-1.429
11.	<b>Binding affinity of amlodipine, atorvastatin and telmisartan drugs to purified bacterial melanin pigment: a kinetic study.</b> Sajjan S S, <b>Santoshkumar M</b> , Sanjeevkumar S, Karegoudar TB. Journal of Pharmaceutical Investigation (2013) 43:267–278.
12.	<b>The response of <i>Paracoccus sp.</i> SKG to acetonitrile-induced oxidative stress.</b> Kirankumar B, Guruprasad B K, <b>Santoshkumar M</b> , Anand S N, Karegoudar T B. Extremophiles (2013) 17(6):1037-44. IF- 2.
13.	<b>Biotransformation of aromatic and heterocyclic amides by amidase of whole cells of <i>Rhodococcus sp.</i> MTB5: Biocatalytic characterization and substrate specificity.</b> Mukram I, Monisha T R,, Pooja V R, <b>Santoshkumar M</b> ,, Anand S Nayak, Karegoudar T B. Biocatalysis and Biotransformation (2017) 35-1: 74-85. IF- 1.06.
<b>b) National Journals</b>	
1.	

2.	
3.	
<b>c) International Conference</b>	
1.	Degradation of acetonitrile by <i>Paracoccus sp.</i> SKG isolated from chemical waste samples. <b>Santoshkumar M.</b> , Karegouda T B. Society of Biological Chemists (India) 77 <sup>th</sup> annual meeting, December-2008.
2.	Utilization of nitriles by <i>Paracoccus sp.</i> SKG isolated from chemical waste samples. <b>Santoshkumar M.</b> , Anand S Nayak., Karegoudar TB. International Symposium on Environmental Pollution Ecology and Human Health. July-2009.
3.	
<b>d) National Conference</b>	
1.	Degradation of dimethylformamide by <i>Paracoccus sp.</i> SKG from the chemical wastes. <b>Santoshkumar M.</b> , Ananeya O., Anand S Nayak., Karegoudar TB. 2 <sup>nd</sup> National Conference on Biotechnology for Industrial and Rural Development-2008.
2.	
3.	
<b>Book Published / Book Chapters Published:</b>	
➤	<b>Title</b> : <b>Topic</b> : <b>Authors</b> : <b>Publisher</b> :
➤	<b>Title</b> : <b>Topic</b> : <b>Authors</b> : <b>Publisher</b> :

<b>Research Guidance Details (MPhil/PhD):</b>				
Sl.No	Name of the Scholar	University	Registration month & Year	Research Area
1.				
2.				
3.				
4.				
5.				

**Conference/ Workshops/Trainings attended/organized:**

***International/National Conferences:***

1. Attended XXXIII All India Cell Biology Conference & International Workshop on Cell Cycle Regulation held at University of Hyderabad (2009).
2. Attended I<sup>st</sup> International Conference on Recent Advances in Nanotechnology held at Gulbarga University, Gulbarga (2012).
3. Attended National Conference on Medicinal and Aromatic Plants held at Gulbarga University, Gulbarga (2007).
4. Participated Gyan Sangam 2019, a two day National Conference held on 14<sup>th</sup> & 15<sup>th</sup> February 2019 at KLE.

***Workshops/Seminars/Symposium Attended:***

1. Attended Two day Workshop on Research Methodology for Life Science Research student, (2012).
2. Attended Three day Workshop on “**Outcome Based Higher Education**” for University Teachers, (August 2019).
3. Participated UGC sponsored National Symposium on “Emerging Trends and Challenges in Life Sciences”. Held on 26<sup>th</sup> & 27<sup>th</sup> April 2019 at Davangere University Davangere.

***Training Programme :***

- 1.
- 2.
- 3.

**Achievements/Awards / Abroad visit / Professional Membership**

1.	CSIR Senior Research Fellow
2.	UGC- RFSMS Junior research Fellow Department of Biochemistry Gulbarga University, Gulbarga
3.	Junior Research fellow (Lupin industry project) Department of Biochemistry Gulbarga University, Gulbarga

4.	Dr. D S Kothari Postdoctoral Fellow (2013)
5.	Life member Society of Biological Chemists (India)

Personal Details		
<b>Gender</b>	Male	
<b>Date of Birth</b>	09.07.1983	
<b>Contact details</b>	<b>Address for Communication</b>	<b>Permanent address</b>
	<b>Dr. Santosh Kumar M Assistant Professor Department of Biochemistry Davangere University, Shivagangothri, Tholahunase Davangere- 577007</b>	<b>Dr. Santosh Kumar M S/o Thimma Reddy Gowd M # 163, Bannihatti, Nagalapur (P) Sandur (T) Bellary (D) Karnataka- 583123</b>
<b>Electronic address</b>	<b>Telephone- Mobile : 9902878287/8374241232 Home :</b>  <b>E mail</b> : <a href="mailto:santoshmudde@gmail.com">santoshmudde@gmail.com</a> <a href="mailto:drsantoshkumarm@davangereuniversity.ac.in">drsantoshkumarm@davangereuniversity.ac.in</a>	