FACULTY PROFILE

Dr. SANTOSH KUMAR M
Assistant Professor
Department of Studies in Biochemistry
Qualification : M. Sc. Ph. D in Biochemistry
Areas of Specialization : Biocatalysis, Biotransformation and Bioremediation
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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	**Ph.D**	Biochemistry	Gulbarga University	2013
2	**PG**	Biochemistry	Gulbarga University	2006
3	**UG**	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

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 Member at Davangere University from 2019
3.	Working as NAAC Assistant co-ordinator for Department of studies in Biochemistry
4.	Co-ordinator 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.	Two Student Project 42rd Series of Student Project Programme.	KSCST Govt. of Karnataka.	13,500/-	2018-19:	Completed
3.	One Student Project 43rd Series of Student Project Programme	KSCST Govt. of Karnataka.	6,500/-	2019-20	Completed

Research Publications:

a) International Journals

1.	**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.
2.	**Utilization of aliphatic nitrile by *Paracoccus* sp. SKG isolated from chemical waste samples. Santoshkumar M**, Veeranagouda Y, Kyoung L, Karegoudar T B. International Biodeterioration and Biodegradation (2011) 65: 153–159.
3.	**Genome of a novel isolate of *Paracoccus denitrificans* capable of degrading *N*,*N*-dimethylformamide.** Dayananda S, Karegoudar T B, **Santoshkumar M**, Narender K, Ramani B, Suma A, Niyaz A. Journal of Bacteriology (2011) 193: 5598–5599. ISSN: 0021-9193.
4.	**Purification and characterization of amidase from *Paracoccus sp*. SKG: Utilization of amidase-inhibited whole cells for bioconversion of acrylonitrile to acrylamide.**

	Santoshkumar M, Mukram Ismailsaba, Anand S. Nayaka, Suresh B. Mashetty Karegoudar T B. Biocatalysis and Agricultural Biotechnology (2017) 10:256–263.
5.	**Biosorption of acid violet dye from aqueous solutions using native biomass of a new isolate of *Penicillium* sp.** Anjaneya O, **Santoshkumar M**, Anand S N, Karegodar T B. International Biodeterioration and Biodegradation (2009**)** 63: 782–787.
6.	**Decolorization of sulfonated azo dye Metanil Yellow by newly isolated bacterial strains: *Bacillus* sp. strain AK1 and *Lysinibacillus* sp. strain AK2.** Anjaneyaa O, Yogesh S, **Santoshkumar M**, Karegoudar T B. Journal of Hazardous Materials (2011) 190: 351–358.
7.	**A catabolic pathway for the degradation of chrysene by *Pseudoxanthomonas* sp. PNK-04.** Anand S N, Sanjeevkumar S, **Santoshkumar M**, Anjaneya O, Karegoudar T B. FEMS Microbiology Letters (2011) 320: 128–134.
8.	**Generation of continuous packed bed reactor with PVA–alginate blend immobilized *Ochrobactrum* sp. DGVK1 cells for effective removal of *N,N*-dimethylformamide from industrial effluents.** Sanjeevkumar S, **Santoshkumar M**, Dayananda S, Karegoudar T B. Journal of Hazardous Materials (2011**)** 200: 58–63. IF-6.434.
9.	***Paracoccus denitrificans* SD1 mediated augmentation with indigenous mixed cultures for enhanced removal of N, N-dimethylformamide from industrial effluents.** Sanjeevkumar S, Anand SN, **Santoshkumar M**, Siddavattam Dayananda, Karegoudar TB. Biochemical Engineering Journal (2013) 79:1-6.
10.	**Indole-3-Acetic Acid Biosynthesis in *Fusarium delphinoides* Strain GPK, a Causal Agent of Wilt in Chickpea.** Kulkarni B, Sanjeevkumar S, Kirankumar B, **Santoshkumar M**, Karegoudar TB. Applied biochemistry and biotechnology (2013) 169:1-14.
11.	**Binding affinity of amlodipine, atorvastatin and telmisartan drugs to purified bacterial melanin pigment: a kinetic study.** Sajjan S S, **Santoshkumar M**, Sanjeevkumar S, Karegoudar TB. Journal of Pharmaceutical Investigation (2013) 43:267–278.
12.	**The response of *Paracoccus* sp. SKG to acetonitrile-induced oxidative stress**. Kirankumar B, Guruprasad B K, **Santoshkumar M**, Anand S N, Karegoudar T B. Extremophiles (2013) 17(6):1037-44.
13.	**Biotransformation of aromatic and heterocyclic amides by amidase of whole cells of *Rhodococcus* sp. MTB5: Biocatalytic characterization and substrate specificity.** Mukram I, Monisha T R,, Pooja V R, **Santoshkumar M**,, Anand S Nayak, Karegoudar T B. Biocatalysis and Biotransformation (2017) 35-1: 74-85.
b) National Journals	
1.	
2.	
c) International Conference	
1.	Degradation of acetonitrile by *Paracoccus sp*. SKG isolated from chemical waste samples. **Santoshkumar M**., Karegouda T B. Society of Biological Chemists (India) 77th annual meeting, December-2008.
2.	Utilization of nitriles by *Paracoccus* sp. SKG isolated from chemical waste samples. **Santoshkumar M**., Anand S Nayak., Karegoudar TB. International Symposium on

	Environmental Pollution Ecology and Human Health. July-2009.
d) National Conference	
1.	Degradation of dimethylformamide by *Paracoccus sp*. SKG from the chemical wastes. **Santoshkumar M**., Ananeya O., Anand S Nayak., Karegoudar TB. 2nd National Conference on Biotechnology for Industrial and Rural Development-2008.
2.	Presented poster in "Emerging trends and Challenges in life Sciences" 26th and 27th April 2019. Organized by Department of Biochemistry Davangere University, Davangere Karnataka.
Book Published / Book Chapters Published:	

Research Guidance Details (MPhil/PhD):

Sl.No	Name of the Scholar	University	Registration month & Year	Research Area
1.	Gowthami A	Davangere University	January 2019	Microbial Degradation and Biotransformation

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 Ist 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 14th & 15th February 2019 at KLE.
5. As Organizing Convenor for National Seminar on "Emerging Trends and Challenges in Life Sciences" on 26th and 27th April 2019.
6. Co-organizers for National Webinar Series on "Immunity and infection: Biochemical approaches for therapies" From 15th June 2020 to 21st June 2020.

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 26th & 27th April 2019 at Davangere University Davangere.
Training Programme :
1.

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		
Gender	Male	
Date of Birth	09.07.1983	
Contact details	**Address for Communication**	**Permanent address**
	Dr. Santosh Kumar M **Assistant Professor** **Department of Biochemistry** **Davangere University,** **Shivagangothri, Tholahunase** **Davangere- 577007**	**Dr. Santosh Kumar M** **S/o Thimma Reddy Gowd M** **# 163, Bannihatti (V) Nagalapur (P)** **Sandur (T) Bellary (D)** **Karnataka- 583123**
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