

## Teacher's Profile

**Sanjay P. Govindwar**  
M. Sc. Ph.D.  
Biochemistry

**Professor & Head**  
Department of Biochemistry  
**Course Coordinator**  
M. Sc. Environmental Biotechnology  
Shivaji University,  
Kolhapur – 416 004  
MS, India



### 1. Personal Details

**Name** : Prof. Sanjay P. Govindwar  
**Date of Birth** : May 25, 1956  
**Sex** : Male  
**Marital Status** : Married  
**Languages known** : Marathi, Hindi and English  
**Postal Address** : 750, Savali, Gulmohar Colony, Dadu Chougule Nagar,  
Ujalaiwadi, Kolhapur-416004  
**Email:** : [spgovindwar@rediffmail.com](mailto:spgovindwar@rediffmail.com), [spg\\_biochem@unishivaji.ac.in](mailto:spg_biochem@unishivaji.ac.in)  
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### 2. Educational Qualification

Certificate Degree	Subjects	Name of Institution	Year	Class
B. Sc.	Chemistry (Spl.), Botany and Physics	Dr. Babasaheb Ambedkar Marathwada Aurangabad	1977	1 <sup>st</sup>
M. Sc.	Biochemistry	Dr. Babasaheb Ambedkar Marathwada Aurangabad	1979	1 <sup>st</sup>
Ph. D.	Biochemistry	Dr. Babasaheb Ambedkar Marathwada Aurangabad	1982	1 <sup>st</sup>

### Title of Ph. D. Thesis

Environmental Toxicants and Drug Metabolism

### 3. Scholarships and Achievements

- Award "Aadarsh Rajya Shikshak Puraskar-2012-13" (10-9-2013)
- Award "Best Teacher-2012", Shivaji University, Kolhapur (18-11-2012)
- Fellow of Biotechnology Research Society of India, FBRS (2009)
- Fellow of Maharashtra Academy of Sciences, FMASc (2009) (BLF 879)
- Fellow of International Society of Biotechnology, FISBT (2008)

- vi. University Scholar, Department of Biochemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, INDIA (1978-1979).
- vii. Stood First at M. Sc. (Biochemistry exam.), Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, INDIA.

### **Membership of Scientific Organization:**

- i. Life Member:
  - Maharashtra Academy of Sciences (2009)
  - Biotechnology Research Society India (2006) (LM 205)
  - International Society of Biotechnology (2008)
- ii. Editor in Chief: American Journal of Bioengineering and Biotechnology (Columbia International Press)(2012-2014)
- iii. Member of the Editorial Board:
  - Research Journal of Biotechnology (2008)
  - Journal of Microbial World (2006-2008)
  - Journal of Shivaji University (Science and Technology) (2009)
  - Journal of Krishna Institute of Medical Sciences (JKIMSU) (2012)
  - The Scientific World Journal (2013)
- iv. President, Council of Microbiologist Society, Karad, India (2006-2008).
- v. Member of the Governing body "Biotechnology Research Society", India (2011-2013)
- vi. IBSC member, Nimbkar Seeds Pvt. Ltd., Phaltan (2012-2014)
- vii. Member of Animal Ethics Committee, Shivaji University, Kolhapur
- viii. Council Member, Maharashtra Academy of Sciences, Pune
- ix. Joint Secretary, Maharashtra Academy of Sciences, Kolhapur Chapter (2012)

### **Presently working on following positions:**

- 1. Coordinator, Department of Microbiology (2005-2007)
- 2. Coordinator, University Industry Interaction Cell (2004-2007)
- 3. Course Coordinator, M. Sc. Course in Environmental Biotechnology (2005- to date)
- 4. Programme Coordinator, DST- FIST, Department of Biochemistry (2005-2010)
- 5. Principal Coordinator, SAP-DRS1, Department of Biochemistry (2009-2014)
- 6. Chairman, BOS Biochemistry (2004-2007)
  - BOS Biotechnology (Science) (2002-2007)
  - Member: BOS Agrochemistry and Pest Management (2002-2007)
  - BOS Biotechnology (Engineering) (2002-2007)
  - BOS Biochemistry (2007-2009)
- 7. Member of BOS at Other University
  - Dr. BAM University, Aurangabad. (Biochemistry)
  - SRTM University, Nanded (Biotechnology/ Biochemistry (2012-2014)
  - University of Pune, Pune (Biochemistry) (2006-2008)
  - Solapur University, Solapur (Biotechnology) (sub-committee, BOS)
  - SG Amravati University, Amravati (Biochemistry) (Sub-committee, BOS)
  - D.Y. Patil University, Kolhapur (Pharmaceutical Medicine and Technology)
  - Goa University, Goa (Biochemistry) (2014-2016)
- 8. R R Committee: Biochemistry, Microbiology.
  - Biochemistry (Dr. BAM Univ., Aurangabad)
  - Biochemistry & Microbiology (SG Amravati Univ., Amravati)

9. President, Microbiological Society, Karad, India. (2007-2008)
10. Member, Purchase Committee, SUK (2007- 2011)
11. Member, Technical Committee, SUK (2005- to date)

#### 4. Research Area of Interests

1. Microbial Biotransformation
2. Phytoremediation

#### 5. Teaching Experience: 34 years

DURATION	INSTITUTION	DESIGNATION
1984-1989	Department of Chemistry, Shivaji University, Kolhapur	Assistant Professor
1989- 1998	Department of Biochemistry, Shivaji University, Kolhapur	Assistant Professor (Sr.)
1998- 2005	Department of Biochemistry, Shivaji University, Kolhapur	Associate Professor
2005- todate	Department of Biochemistry, Shivaji University, Kolhapur	Professor

DURATION	INSTITUTION	DESIGNATION / FELLOWSHIP	RESEARCH AREA
June 1, 2013- August 31, 2013	Gyeongsang National University, Jinju, South Korea	Brain Pool Visiting Professor	Screening of novel cellulases for consolidated bioprocessing
Oct. 3, 2011- Oct. 10, 2011	Konkuk University, Seoul, South Korea	Visiting Professor	--
Oct. 2002- July. 2003	National Taiwan, University, Taipei, Taiwan	Post Doctoral	Cloning and expression of the cellulase gene from <i>Streptomyces thermonitrificans</i> NTU 88 in <i>E. coli</i> TOP 10 cells.
June 1990- Oct. 1990	University of South Florida, USA.	Research Associate	Purification and characterization of glutathione s-

			transferase from human placenta and fetal liver and its role in xenobiotic metabolism.
Nov. 1988- May 1990	Tuskegee University, AL USA.	Research Associate	Comparative toxicity and metabolism of xenobiotics in mammalian and non-mammalian species.
Jan. 1984- Sept. 1984	Hindustan Antibiotics	Research Associate	Enzyme engineering.
April 1983- Jan. 1984	Marathwada University	Research Associate (ICMR)	Role of caffeine in chemical carcinogenesis.

## 6. Degree Awarded Ph. D. Students

### M. Phil [1]

Sr.No	Name of fellow and Research Topic	Degree	Current Position
1	Ms. Deokule Sunita B. Immobilization of microbial cells for the activity of industrial important enzymes.	M. Phil. 1991	-----

### Ph. D (Awarded) [27]

Sr.No	Name of fellow and Research Topic	Degree	Current Position
1	Mr. Kodam Kisan M. Action of sulfamethazine on cytochrome P450 and cytochrome P450 mediated reactions.	Ph. D 1997	Professor, SP Pune University, Pune
2	Mr. Adav Sunil S. Alterations in microsomal mixed function oxidase enzymes due to sodium sulfadimethylpyrimidine.	Ph. D 1998	Associate Professor, Shivaji University, Kolhapur
3	Ms. Salokhe Minal D. Studies on microbial cytochrome P450.	Ph. D 1999	-----

4	Ms. Bhosale Sanjyot K. Studies on microbial biotransformation enzymes.	Ph. D 2004	SAS Programmer (ETL), Peak Health Solutions Georgia, Atlanta, USA
5	Mr. Saratale Ganesh D. Study of cytochrome P450 mediated reactions in microbes.	Ph. D 2005	Research Associate, South Korea
6	Mr. Patil Rajaram P. Studies in exploration of allelopathic effect and pesticidal potential of a weed plant <i>Ageratum conyzoides</i> Linn.	Ph. D 2006	-----
7	Mr. Kalme Satish D. Role of microbes in biotransformation of chemicals	Ph. D 2006	Scientist, Achira laboratory, Bangalore, India
8	Mr. Parshetti Ganesh K. Study on microbial degradation of dyes	Ph. D 2007	Research Associate, Singapore National University, Singapore
9	Mrs. Dandge Padma B. Role of sulfa drugs in the alteration of mixed function oxidase system.	Ph. D 2007	Assistant Professor, Shivaji University, Kolhapur
10	Mrs. Mane Ujwala V. Studies on actinomycetes in Krishna river water from Satara district.	Ph. D 2007	Assistant Professor, YC Science College, Satara
11	Ms. Gomare Sushama S. Eco-friendly biotransformation of the textile dyes by <i>Brevibacillus laterosporus</i> MTCC 2298	Ph. D 2008	-----
12	Mr. Ghodake Gajanan S Biotransformation enzymes as biocatalyst for dye degradation.	Ph. D 2008	Research Professor, Bongbuk University, jung-gu, Seoul, South Korea
13	Ms. Jadhav Sheetal U Development of a consortium for	Ph. D 2008	Technology Scientist, Center for Cellular and

	degradation of recalcitrant chemical compounds.		Molecular platforms, Bangalore, India
14	Mr. Dawkar Vishal V Degradation of dyes with microorganism-studies with bacterial enzymes	Ph. D 2009	Research Associate, National Chemical Laboratory, Pune
15	Mr. Jadhav Umesh U Enzymes: A pollution control tool for textile dyes	Ph. D 2009	Research Associate, Taiwan
16	Mrs. Patil Jyotsna A. Biochemical studies on health hazards of pesticides in grape garden workers.	Ph. D 2009	Associate Professor, Krishna Medical College, Karad
17	Mr. Telke Amar A Microbes and its enzymes as bioremediation tool for degradation of bisphenol A and textile dyes	Ph. D 2010	Research Associate, France
18	Mrs. Saratale Rijuta G Development of efficient microbial consortium for biodegradation of azo dyes (Scarlet RR and Green HE 4BD)	Ph. D 2010	Research Associate, South Korea
19	Mr. Tamboli Dhawal P. Degradation of textile dyes using polyhydroxyalkanoates producing microorganisms.	Ph. D 2010	-----
20	Ms. Kagalkar Anuradha N. Phytoremediation: A novel approach for degradation of textile dyes.	Ph. D 2011	Scientist, General Mills, Mumbai
21	Ms. Jadhav Mital U Isolation, characterization and applications of biosurfactants from <i>Pseudomonas desmolyticum</i> NCIM2112, <i>Bacillus cereus</i> strain MUJ	Ph. D 2011	-----

and *Enterobacter* sp. MS16.

22	Mr. Waghmode Tatoba R. Potential of <i>Galactomyces geotrichum</i> MTCC 1360 and involvement of its oxidoreductive enzymes in the textile dyes degradation	Ph. D 2012	Research Associate, South Korea
23	Mr. Kurade Mayur B. Consortial ( <i>Brevibacillus laterosporus</i> MTCC 2298 and <i>Galactomyces geotrichum</i> MTCC 1360) degradation of textile industry effluent using cells and immobilized enzymes in a bioreactor	Ph. D 2012	-----
24	Mr. Kabra Akhil N. Evaluation of <i>Glandularia pulchella</i> (Sweet) Tronc. (Moss Verbena). for the degradation of the mixture of dyes and textile effluent, and its application for the phytoremediation.	Ph. D 2013	Research Professor, Konkuk University, South Korea
25	Mr. Khandare Rahul V. Plant and microbial synergism for the degradation of textile dyes and effluent, and its application in the wetland development	Ph. D 2013	Assistant Professor, NMU, Jalgaon
26	Ms. Joshi Swati M. Molecular analysis of bacterial community from textile dye wastewater disposal site and use of consortia and engineered microorganism for the degradation of dye mixtures.	Ph. D 2013	-----
27	Mr. Kadam Avinash A. Solid state fermentation: Biotechnological tool for microbial bioremediation of dyestuff from textile effluent.	Ph. D 2014	Research Associate, South Korea

### Ph D (Working ) [8+2]

Sr.No	Name of fellow and Research Topic	Degree
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1	Mr. Patil Swapnil M. Development of heterologous expression system of tyrosinase for large-scale production.	Ph. D
2	Mrs. Bhalkar Bhumika Nilesh Enhanced production of camptothecin from <i>Nothapodytes nimmoniana</i> cells using biotransformation protocols.	Ph. D
3	Ms. Londhe Mira Amardas Isolation, purification and characterization of biosurfactants produced from <i>Chlorella</i> species and its commercial applications.	Ph. D Co-guide
4	Mr. Khot Mahesh Balwant Single cell oil of <i>Aspergillus terreus</i> IBB M1 as a potential feedstock for biodiesel.	Ph. D
5	Mr. Rane Niraj Rajendra Constructed wetland strategies for effective treatment of textile industrial wastewaters.	Ph. D
6	Ms. Kulkarni Ashwini Narayan Removal of fluorides- A biological approach.	Ph. D
7	Mr. Waghmare Pankaj Kumar Use of lignocellulosic enzymes for biofuel production by utilizing lignocellulosic waste.	Ph. D
8	Ms. Godase Vijaya Prakash Structural and functional studies on an enzyme of $\alpha/\beta$ -hydrolase fold superfamily from a tropical marine isolate <i>Yarrowia lipolytica</i> NCIM 3589.	Ph. D Co-guide
9	Mr. Kshirsagar Siddheshwar D Cellulolytic enzymes production using agricultural waste by <i>Nocardiosis</i> sp. KNU and its application for bio-ethanol production	Ph. D
10	Ms Bedekar Priyanka Ashok Remediation of textile dyes waste using microbial	Ph. D

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bioreactors.

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### POSTDOCTORAL FELLOWS [1]

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Sr.No	Name of fellow and Research Topic	Degree	
1	Dr. Lade Harshad Somnath UGC's Dr. D.S. Kothari Postdoctoral Fellowship Textile dyestuff and wastewater degradation using consortium of <i>Pseudomonas</i> sp. SUK1 bacterium and <i>Aspergillus ochraceus</i> NCIM-1146 fungi.	June 19,2010 May 30, 2013	Research Associate South Korea

#### 7. Field of Expertise

Prof. S.P. Govindwar (FISBT, FMASc, FBRs) has done internationally acclaimed research in the area of bioremediation using microbes, fungi, plants & topping first in scopus (decolorization). Work on phytoremediation (lab scale phytoreactors) is well suited for developing a wetland-phytoreactor technology for an efficient bioremediation of textile industry effluent and of textile dye contaminated sites. He is also working on DNA barcoding and bioprospecting of medicinal plants from Western Ghats.

#### 8. Reviewer of International Journals

1. Bioresource Technology
2. Indian Journal of Pharmacology
3. Dyes and Pigments
4. Process Biochemistry
5. Journal of Hazardous Materials
6. Chemosphere
7. Applied Microbiology and Biotechnology
8. Journal of Chinese Institute of Chemical Engineers
9. Applied Biochemistry and Biotechnology
10. Environmental Science and Technology
11. Science of the Total Environment
12. Indian Journal of Biotechnology
13. International Journal of Integrative Biology
14. Journal of Chemical Technology and Biotechnology
15. Int. J. of Environment and Waste Management
16. Journal of Applied Microbiology
17. Biodegradation
18. Journal of Molecular Catalysis B. Enzymatic

## 9. Funded Projects

Title of Project/Scheme	Funding agency	Funds received (lakhs)	Date of start	Date of end	Worked as Chief Investigator/ Co-investigator
1. Induction of specific form of cytochrome P450 by methylxanthines and its role in chemical carcinogenesis.	CSIR, New Delhi	2.49861	July 1993	June 1996	Chief Investigator
2. Effect of sodium sulfadimethylpyrimidine on hepatic microsomal drug metabolising system and hepatotoxicity in chickens.	UGC, New Delhi	2.27583	Oct. 1993	Sept. 1997	Chief Investigator
3. Study on feed aflatoxins levels and metabolism in chickens.	ICAR, New Delhi	1.66225	May 1994	April 1997	Chief Investigator
4. Decolorization of textile dyes using <i>Aspergillus ochraceus</i> .	UGC, New Delhi	7.926	April 2007	March 2010	Chief Investigator
5. Biodegradation of textile dyes (Golden yellow HE2R & Navy Blue 3G using <i>Brevibacillus laterosporus</i> ).	DST, New Delhi	19.64933	August 2007	July 2010	Chief Investigator (Co-Investigator: P.M. Gurao)
6. "Biodegradation of textile dyes (Scarlet RR, Rubine GFL, Brown 3REL, Methyl Red, Brilliant Blue, Golden Yellow HER and Remazol Red) using <i>Galactomyces geotrichum</i> MTCC 1360	DBT, New Delhi	51.66	Sept. 2008	August 2011	Chief Investigator (Co-Investigator: J.P. Jadhav)

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	and consortia with <i>Brevibacillus laterosporus</i>					
7.	One time grant to intensify research in his area.	UGC, New Delhi	7.00	April 2010	March 2011	Chief Investigator
8.	Cellulolytic enzymes production by isolated <i>Nocardiosis</i> sp. and its application in lignocellulose saccharification for biohydrogen production.	UGC, New Delhi	11.048	April 2012		Co-Investigator  (Chief Investigator: G.D. Saratale)
9.	Studies on microbial decolorization and degradation of toxic dyes from textile effluent.	UGC, New Delhi	12.60	April 2012		Co-Investigator  (Chief Investigator: R.G. Saratale)
10.	Construction of wetland-a phytoremediation treatment process for the degradation of dyes from textile industrial effluent.	DBT, New Delhi	29.756	May 2014		Chief Investigator  (Co-Investigator: J.P. Jadhav)

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**Infrastructure Projects of the Departments:**

<b>Title of Project/Scheme</b>	<b>Funding agency</b>	<b>Funds received (lakhs)</b>	<b>Date of start</b>	<b>Date of end</b>	<b>Coordinator</b>
1. DST-FIST	DST, New Delhi	32.00	2005	2010	Coordinator
2. DBT M. Sc in Environmental Biotechnology	DBT, New Delhi	37.39 21.78 19.69 18.49	2006 2007 2008 2009		Course Coordinator

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		20.71	2010		
		23.97	2011		
		21.02	2012		
		17.40	2013		
3. UGC- SAP-DRS-Phase-I	UGC, New Delhi	32.00 + 2 PF	2009	2014	Coordinator
4. DBT-Shivaji University, Kolhapur- Interdisciplinary Programme on Life Science for Advanced Research and Education.	DBT, New Delhi	58.18	2012	2017	Co-Principle Investigator
5. SAIF at Shivaji University, Kolhapur	DST, New Delhi	560.00	2014		Coordinator
6. UGC- SAP-DRS-Phase-II	UGC, New Delhi	125.00 + 2 PF	2014	2019	Coordinator

## 10. Conferences, Workshops and Seminars Attended and Organized (104)

1. Bedekar, P.A., G.D. Saratale, **S.P. Govindwar** and Sartale, R.G. (2013) Oxidative stress and toxicity studies during decolorization and degradation of C.I. Ramazol Orange by isolated *lysini bacillus* sp. RGS. International Conference on Advances in Biotechnology and Bioinformatics, Organised by D. Y. Patil university, Pune and The Biotech Research Society, India, November, 25-27.
2. Rane, N.R. Watharkar, A.D. Patil, S.M., **S.P. Govindwar** and Khandare R.V. (2013) Green remediation of textile dye containing wastewater by *Ipomoea hederifolia* nin. International Conference on Advances in Biotechnology and Bioinformatics, Organised by D. Y. Patil university, Pune and The Biotech Research Society, India, November, 25-27.
3. Waghmare, P.R. Kshirsagar, S.D. Saratale, G.D. and **Govindwar, S.P.** (2013). Biological pretreatment for delignification of agricultural wastes by using *Phenerochate cryso sporium* NCIM 1106. International conference on advances in Biotechnology and Bioinformatics, Organised by D. Y. Patil university, Pune and The Biotech Research Society, India, November, 25-27.
4. Kshirsagar, S.D. Saratale, R.G. Waghmare, P.R. **Govindwar, S.P.** and Saratale, G.D. (2013) Utilization of water hyacinth biomass for cellulolytic enzyme production by

- Nocardioopsis* sp. And its applications in lignocelluloses saccharification for bioethanol production. International conference on advances in biotechnology and bioinformatics, Organised by D. Y. Patil university, Pune and The Biotech Research society, India, November, 25-27.
5. Kore, M.V. Jadhav, J.P. **Govindwar, S.P.** and Saratale, G.D. Production of cellulolytic enzymes under solid state fermentation by using agricultural wastes- A possible approach. International conference on advances in biotechnology and bioinformatics, Organised by D. Y. Patil university, Pune and The Biotech Research society, India, November, 25-27.
  6. Kadam, A.A., Kulkarni, A.N., Kurade, M.B., Lade, H.S. and **Govindwar, S.P.** (2013) Role of plant growth promoting bacteria in bioremediation of sugarcane bagasse adsorbed dye Rubin GFL under solid state fermentation: An ecofriendly approach. International Conference on Solid Waste 2013, Innovation in Technology and Management, organized by Hong Kong Baptist University and Sino-Forest Applied Research Centre for Pearl River Delta Environment at Hong Kong during May 5-9, 2013.
  7. Kadam, A.A., Lade, H.S., Patil, S.M., Kulkarni, A.N. and **Govindwar, S.P.** (2012) Low cost pretreatments of sugarcane bagasse for enhancement of textile dyes adsorption and subsequent biodegradation of adsorbed dyes under solid state fermentation. International Conference on Industrial Biotechnology (ICIB-2012) organized by Department of Biotechnology, Punjabi University, Patiala and The Biotech Research Society, India. November 21-23, 2012.
  8. Kshirsagar, S.D., Saratale, R.G., Waghmare, P.R., **Govindwar, S.P.** and Saratale, G.D. (2012) Cellulolytic enzymes production using agricultural waste by *Nocardioopsis* sp. KNU and its application for bio-ethanol production, A National Conference on Emerging Technologies for Sustainable Developments (NCET-2012) December 27 –28, 2012, Organised by Department of Technology, Shivaji University, Kolhapur, India.
  9. Saratale, R.G., Bedekar, P.A., Saratale, G.D., Chang, J.S., **Govindwar, S.P.** (2012) Decolorization and degradation of Reactive azo dye by fixed-bed bioreactor using immobilized cells of *Proteus vulgaris*. A National Conference on Emerging Technologies for Sustainable Developments (NCET-2012) December 27 – 28, 2012 Organized by Department of Technology, Shivaji University, Kolhapur, India.
  10. Waghmare, P.R., Saratale, R.G., **Govindwar, S.P.** and Saratale, G.D. (2012) Isolation of efficient cellulolytic bacteria and cellulolytic enzymes production using agricultural waste biomass for bioenergy production. International Conference on Industrial Biotechnology (ICIB – 2012) organized by Department of Biotechnology, Punjabi University, Patiala and The Biotech Research Society, India. November 21-23, 2012.
  11. Khandare, R.V., Rane, N.R., Joshi, S.M. and **Govindwar, S.P.** (2012) Development of a low cost phyto-tunnel system and its application for the treatment of a real textile effluent and a simulated mixture of dyes. International Conference on Industrial Biotechnology (ICIB –2012) organized by Department of Biotechnology, Punjabi University, Patiala and The Biotech Research Society, India. November 21-23, 2012.
  12. Kshirsagar, S.D., Saratale, R.G., Waghmare, P.R., **Govindwar, S. P.** and Saratale, G.D. (2012) Cellulase production using biomass feed stock and its application in lignocellulose saccharification for bio-ethanol production. International conference on “microbial world: recent innovations and future trends” organized by KIIT University, Bhubaneswar, Odisha and Association of Microbiologists of India (AMI). November 22-25, 2012.

13. Saratale, G.D., Saratale, R.G., Kshirsagar, S.D., Waghmare, P.R. and **Govindwar, S.P.** (2012) Cellulolytic enzymes production using agricultural waste as the substrate by *Phanerochaete chrysosporium* MTCC-787 under solid-state fermentation. International conference on “microbial world: recent innovations and future trends” organized by KIIT University, Bhubaneswar, Odisha and Association of Microbiologists of India (AMI). November 22-25, 2012.
14. Saratale, R.G., Saratale, G.D. and **Govindwar, S. P.** (2012) Decolorization and degradation of toxic sulfonated azo dyes and textile effluent by isolated *Lysinibacillus fusiformis* strain IGI. International conference on “microbial world: recent innovations and future trends” organized by KIIT University, Bhubaneswar, Odisha and Association of Microbiologists of India (AMI). November 22-25, 2012.
15. Waghmare, P.R., Saratale, R.G., **Govindwar, S.P.**, and Saratale, G.D. (2012) Isolation of efficient cellulolytic bacteria and cellulolytic enzymes production using agricultural waste biomass for bioenergy production. International conference on ‘Advances in Biological Sciences (ICABS) Organized by Department of Biotechnology and Microbiology and Inter University Center for Biosciences, Kannur University, Kerala (15-17 March 2012)
16. Kshirsagar, S.D., Jadhav, S.L., Waghmare, P.R., Saratale, R.G., **Govindwar, S.P.** and Saratale, G.D. (2012) Cellulase production using biomass feed stock and its application in lignocellulose saccharification for bio-ethanol production. 1<sup>st</sup> International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM-MDF-2012) organized by Department of Physics, Shivaji University, Kolhapur, India (January 17-19, 2012)
17. Saratale, G.D., Sampange, V.T., Saratale, R.G., and **Govindwar, S.P.** (2012) Agricultural waste as the substrate for cellulase and hemicellulase production by *Phanerochaete chrysosporium* MTCC-787 under solid-state fermentation. Second National Conference on Biotechnology, Bioinformatics and Bioengineering 24-25 February, 2012 Organized by Society for Applied Biotechnology, Kolhapur
18. Saratale, R.J., Saratale, G.D., Chang, J.S. and **Govindwar, S.P.** (2011) Fixed-bed decolorization of Reactive Blue 172 by *Proteus vulgaris* NCIM-2027 immobilised on *Luffa* cylindrical sponge. International conference on New Horizons in Biotechnology and 8<sup>th</sup> Annual Convention of The Biotech Research Society, India, November 21-24, 2011.
19. Waghmode, T.R., Khurade, M.B., Lade, H.S. and **Govindwar, S.P.** (2011) Effect of temperature on oxidoreductive enzyme induction during decolorization of Rubin GFL by microbial consortium GG-BL in sequential aerobic/microaerophilic process. International conference on New Horizons in Biotechnology and 8<sup>th</sup> Annual Convention of The Biotech Research Society, India November 21-24, 2011.
20. Khandare, R.V., Kabra, A.N., Kadam, A.A. and **Govindwar, S.P.** (2011) Plant and bacterial synergism for enhanced degradation of a sulphonated diazo reactive dye Direct Red 5B by *Protulaca grandiflora* Hook. And *Pseudomonas putida* strain Pgh. International conference on New Horizons in Biotechnology and 8<sup>th</sup> Annual Convention of The Biotech Research Society, India November 21-24, 2011.
21. Khurade, M.B., Waghmode, T.R., Jadhav, M.U., Patil, S.M. and **Govindwar, S.P.** (2011) Monitoring of rapid biodegradation of synthetic effluent by bacterial/yeast consortium BL-GG using HPTLC. International conference on New Horizons in Biotechnology and 8<sup>th</sup> Annual Convention of The Biotech Research Society, India

November 21-24, 2011.

22. Saratale, G.D., Saratale, R.G., Oh, S.E., and **Govindwar, S.P.** (2011) Production and characterization of multiple cellulolytic enzymes by isolated *Streptomyces* sp. MDS. International conference on New Horizons in Biotechnology and 8<sup>th</sup> Annual Convention of The Biotech Research Society, India November 21-24, 2011.
23. Tamboli, D.P., Kalme, S.D., Ghodake, G.S., Lee, Dae Sung and **Govindwar, S.P.** (2011) *In vitro* synthesis of polyhydroxyalkanoates using textile dye induced PHA synthase from *Sphingobacterium* sp. ATM. International conference on Water Reuse and Desalination (ICWRD 2011). Centre for Blue Gold Cluster, Kyungpook National University, Daegu, Korea. April 2011.
24. Waghmode, T.R., Kurade, M.B. and **Govindwar, S.P.** (2011) A study on degradation of Remazol Red by *Galactomyces geotrichum* MTCC 1360 and effect of dye and degraded metabolites on iron uptake in *Sorghum vulgare* and *Phaseolus mungo*. UGC-SAP Sponsored National symposium on Recent Trends in Life Sciences held from March 4-5, 2011 held at Department of Biochemistry, Shivaji University, Kolhapur, Maharashtra, India.
25. Kurade, M.B., Waghmode, T.R., Patil, S.M. and **Govindwar, S.P.** (2011) Preferential biodegradation of structurally dissimilar dyes from a mixture *Brevibacillus laterosporus* MTCC 2298. UGC-SAP Sponsored National symposium on Recent Trends in Life Sciences held from March 4-5, 2011 held at Department of Biochemistry, Shivaji University, Kolhapur, Maharashtra, India.
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102. **Govindwar, S.P.**, Kachole, M.S. and Zubairy, Y.K. (1981): Drug metabolism and spectral properties of hepatic microsomes during ampicillin and CCl<sub>4</sub> treatment. Presented at 51 st Annual Meeting of Society of Biological Chemists held at Baroda, India, September 1981.
103. Halde, U.K., **Govindwar, S.P.** and Pawar, S.S. (1981): Mechanism of CS on hepatic microsomal mixed function oxidases system. *Ind. J Biochem. Biophys.* **18**, 155.
104. Kachole, M.S. and **Govindwar, S.P.** (1980): Hepatotoxicity of tannic acid. *Ind. J Biochem. Biophys.* **17**, 111.

### Invited lectures

1. Lecture: on Evaluation of microbial potential for the treatment of textile industry effluent to reuse wastewater. In National Conference on Bioremediation-Recent trends & future prospects, at Royal College of Arts, Science and Commerce, Thane, August 9, 2014.
2. Lecture: on Phytoremediation, in National Conference on-Phytochemistry: Recent Trends and Challenges held at B.N. Bandodkar College of Science, Thane-1, December 14-15, 2012.
3. Lecture: National Conference on "Bird's Eye View of Biosciences Research and Academic-2012 at Jawaharlal Nehru Engineering College, Aurangabad, February 16-18, 2012. "Phytoremediation technologies".
4. Lecture: UGC-Sponsored State Level Seminar on "Exploring Horizons in Microbial Technology" at Rajarshi Shahu Mahavidyalaya, Latur, January 21, 2012. (Chairman of

one session)

5. Lecture: Phytoremediation technologies as an advanced tool for the removal of dyes from textile effluent. International conference on New Horizons in Biotechnology and 8<sup>th</sup> Annual Convention of The Biotech Research Society, India November 21-24, 2011. (Chairman of one session)
6. Lecture: Evaluation of microbial potential for the treatment of textile industry effluent to reuse waste water International conference on Water Reuse and Desalination (ICWRD 2011). April 2011. Centre for Blue Gold Cluster, Kyungpook National University, Daegu, Korea.
7. Lecture: Microbial bioremediation. Chungnam National University, Deajeon, Republic of Korea
8. Lecture: Phytoremediation of textile dyes. Gyeongsang National University, Gyeongnam, Republic of Korea
9. Chairman International Conference on Genomic Sciences - Recent Trends (ICGS – 2010) November 12-14, 2010. School of Biological Sciences, Madurai Kamaraj University, Madurai, India.
10. Microbial biotransformation. Biochemistry Section, Session no.VIII International conference on “Emerging trends in Chemistry” ETTC 2010. 7-1-2010 Department of Chemistry, Pune University, Pune
11. Lecture: Microbial Bioremediation National Conference in Biochemistry and Biotechnology (NCBBT-2010) Shivaji College, Akola.
12. Chairman: International Conference on “Emerging Trends in Biotechnology” and 6<sup>th</sup> Annual Convention of “The Biotech Research Society, India. December 4-6, 2009. Banarus Hindu University, Varanasi, Indi.
13. Lecture: Role of Enzymes in Bioremediation Regional conference on “Microbial Technology for Sustainable Environment” March 2-3, 2009. Gujarat University, Ahmadabad.
14. Chairman: 3<sup>rd</sup> International Congress on Bioprocesses in Food Industries (ICBF) 2008 & 5<sup>th</sup> Convention of Biotech Research Society of India (BRSI). November 6-8, 2008. Osmania University, Hyderabad, India.
15. Lecture: Bioremediation: Biodegradation of textile dyes National Conference. 11-9-2008 Belgium.
16. Lecture: Environmental Biotechnology applications National Conference on Emerging Trends in Biotechnology and Biochemical Engineering, EBBE-2008 (30-31 January 2008), KIT College of Engineering, Kolhapur.
17. Lecture: Need to generate enzyme based consortia for bioremediation of textile dye effluents International Conference on New Horizons in Biotechnology (NHBT-2007) 26-29 November, 2007. National Institute for Interdisciplinary Science & Technology (NIIST) Trivandrum - 695019, India.
18. Lecture: Bioremediation National Conference on “Emerging Trends in Biotechnology for Modern Era” (29-30 September, 2007) Department of biotechnology, College of Computer Science and Information Technology, Latur.
19. Lecture: Role of Enzymes in Bioremediation National Seminar on “New Horizons in Biological Sciences” (23 September 2007) N V Patel College of Pure and Applied Sciences, V.V. Nagar and GSBM, Gandhinagar.
20. Lecture: Development of Biological techniques and applications State level Seminar on “New Horizons in Biological Sciences” (24 September 2007) N V Patel College of

Pure and Applied Sciences, V.V. Nagar and GSBM, Gandhinagar.

21. Lecture: Bioremediation National conference on “Microbial technology for sustainable agriculture” 23-24 January 2006 DBF Dayanand College of Arts and Science, Solapur.
22. Lecture: Cytochrome P450 mediated biotransformation Symposium on microbial Technology, December 21-22, 1996 Microbiologists society of Maharashtra, Karad.

## 11. Patents

1. Applicants/Inventors: S.P. Govindwar, A.A. Kadam; Coagulation of dyes from textile wastewater using novel coagulant and generated dye sludge decolorization under solid state fermentation. Application No. 372/MUM/2014; Date of filing: 03/02/2014. (docket No. 2059; CBR No. 1478)

## 12. Research Publications (Published): 164, h-index:27, Citations:2505

1. Telke, A.A., Kadam, A.A. and **Govindwar, S.P.** (2014) Bacterial Enzymes and Their Role in Decolorization of Azo Dyes, in *Microbial Degradation of Synthetic Dyes in Wastewaters* (Ed: Singh) Springer International Publishing, Switzerland, ISBN: 978-3-319-10941-1.
2. Khandare, R.V. and **Govindwar, S.P.** (2014) Microbial degradation of textile dye for Environmental safety in *Advances in Biodegradation and Bioremediation of Industrial Waste*, (Ed. Ram Chandra), Taylor & Francis Group, Boca Raton, Fl 33487, USA.
3. Rane, N.R., Chandanshive, V.V., Khandare, R.V., Gholave, A.R., Yadav, S.R. and **Govindwar, S.P.** (2014) Green remediation of textile dyes containing wastewaters by *Ipomoea hederifolia* L. *RSC Advances* **4**, 36623-36632 (**IF: 2.562**)
4. Kabra, A.N., Ji, M.K., Choi, J., Kim, J.R., **Govindwar, S.P.**, and Jeon, B.H. (2014) Toxicity of atrazine, and its bioaccumulation and biodegradation in a green microalga, *Chlamydomonas mexicana*. *Environ. Sci. Pollut. Res.* (In press) (**IF: 2.757**) **SCI**.
5. Bedekar, P.A., Saratale, R.G., Saratale, G.D. and **Govindwar, S.P.** (2014) Oxidative stress response in dye degrading bacterium *Lysinibacillus* sp. RGS exposed to Reactive Orange degradation of RO16 and evaluation of toxicity. *Environ. Sci. Pollut. Res.* DOI 10.1007/s11356-014-3041-2 (**IF: 2.757**) **SCI**.
6. Waghmare, P.R., Kadam, A.A., Saratale, G.D., and **Govindwar, S.P.** (2014) Enzymatic hydrolysis and characterization of waste lignocellulosic biomass produced after dye bioremediation under solid state fermentation. *Bioresour. Technol.* **168**, 136-141 (**IF: 5.039**) **SCI**.
7. Kulkarni, A.N., Kadam, A.A., Kachole, M.S., and **Govindwar, S.P.** (2014) Lichen *Perlecia perlatata*: A novel system for biodegradation and detoxification of dispersed dye Solvent Res. *J. Hazard. Mater.* **214**, 461-468 (**IF: 4.331**) **SCI**.
8. Ghatge, S.S., Telke, A.A., Kang, Seo-Hee, Arulalapperumal, V., Lee, Keun-Woo., **Govindwar, S.P.**, Um, Youngsoon., Oh, Doo-Byoung., Shin, Hyun-Dong., and Kim, Seon-Won (2014) Characterization of modular bifunctional processive endoglucanase Cel5 from *Hahella chejuensis* KCTC 2396. *Appl. Microbiol. Biotechnol.* **98**, 4421-4435 (**IF: 3.811**) **SCI**.
9. Londhe, M.A., Khambe, S.D., and **Govindwar S.P.** (2014) Isolation, preliminary screening and process optimization for production of surface active agent from *Chlorella pyrenoidosa* by non-disruptive method. *Int. J. Sci. Res.* **3**, 399-402
10. **Govindwar, S.P.**, Kurade, M.B., Tamboli, D.P., Kabra, A.N., Kim, P.J. and



- Waghmode, T.R. (2014) Decolorization and degradation of xenobiotic 1 azo dye Reactive Yellow 84-A and textile effluent by *Galactomyces geotrichum*. *Chemosphere* **109**, 234-238 (IF: 3.499) SCI
11. Patil, J.A, Patil, A.J., Sontakke, A.V. and **Govindwar, S.P.** (2014) Alteration of biochemical parameters after supplementation of multivitamins and minerals of sprayers on grape gardens of Western Maharashtra (India). *Al Ameen Journal of Medical Sciences* 7, 45-51
  12. Saratale, G.D., Waghmare, P.R., Kshirsagar, S.D., Saratale, R.G. and **Govindwar, S.P.** (2014) Production and characterization of cellulolytic enzymes by isolated *Klebsiella* sp. PRW-1 using agricultural waste biomass. *Emirates J Food Agri.* **26**, 44-59.
  13. Kadam, A.A., Kulkarni, A.N., Lade, H.S. and **Govindwar, S.P.** (2014) Exploiting the potential of plant growth promoting bacteria in decolorization of dye Disperse Red 73 adsorbed on milled sugarcane bagasse under solid state fermentation. *Int. Biodeter. Bioremed.* **86**, 364-381. (IF: 2.235) **SCI Expanded.**
  14. Khandare, R.V., Watharkar, A.D., Kabra, A.N., Kachole, M.S. and **Govindwar, S.P.** (2014) Development of a low cost phyto-tunnel system and its application for the treatment of dye containing wastewaters. *Biotechnol. Lett.* 36, 47-55 (IF: 1.736) **SCI.**
  15. Kurade, M.B., Waghmode, T.R., Kabra, A.N. and **Govindwar, S.P.** (2013) Degradation of a xenobiotic textile dye, Disperse Brown 118, by *Brevibacillus laterosporus*. *Biotechnol. Lett.* 35, 1593-1598 (IF: 1.736) **SCI.**
  16. Olukanni, O.D, Osuntoki, A.A., Awotula, A.O., Kalyani, D.C., Gbenle, G.O. and **Govindwar, S.P.** (2013) Decolorization of dye house effluent and biodegradation of congo red by *Bacillus thuringiensis* RUN1. *J Microbiol. Biotechnol.* **23**, 843-849 (IF: 1.32) **SCI Expanded.**
  17. Saratale, R.G., Purankar, M., Gandhi, S., Kurade, M., **Govindwar, S.P.** and Saratale, G. D. (2013) Decolorization and degradation of C.I. Remazol Red and textile effluent by isolated *Lysinbacillus fusiformis* strain RGS. *J. Biosci. Bioeng.* **115**, 658-667 (IF=1.79) **SCI.**
  18. Khandare, R.V., Kabra, A.N., Awate, A.V. and **Govindwar, S.P.** (2013) Synergistic degradation of diazo dye Direct Red 5B by *Portulaca grandiflora* and *Pseudomonas putida*. *Int. J. Environ. Sci. Technol.* **10**, 1039-1050 (IF: 1.794) **SCI.**
  19. Joshi, S.M., Inamdar, S.A., Jadhav, J.P. and **Govindwar, S.P.** (2013) Random UV mutagenesis approach for enhanced biodegradation of sulfonated azo dye, Green HE4B. *Appl. Biochem. Biotechnol.* **169**, 1467-1481 (IF: 1.687) **SCI.**
  20. Khandare, R.V., Kabra, A.N., Kadam, A.A. and **Govindwar, S.P.** (2013) Treatment of dye containing wastewaters by a developed lab scale phytoreactor and enhancement of its efficacy by bacterial augmentation. *Int. Biodeter. Biodegrad.* **78**, 89-97 (IF: 2.235) **SCI Expanded.**
  21. Kadam, A.A., Lade, H.S., Patil, S.M. and **Govindwar, S.P.** (2013) Low cost CaCl<sub>2</sub> pretreatment of sugarcane bagasse for enhancement of textile dyes adsorption and subsequent biodegradation of adsorbed dyes under solid state fermentation. *Bioresour. Technol.* **132**, 276-284 (IF: 5.039) **SCI.**
  22. Kurade, M.B., Waghmode, T.R., Tamboli, D.P. and **Govindwar, S.P.** (2013) Differential catalytic action of *Brevibacillus laterosporus* on two dissimilar azo dyes Remazol red and Rubine GFL. *J Basic Microbiol.* **53**, 136-146 (IF: 1.822) **SCI.**
  23. Kabra, A.N., Khandare, R.V. and Govindwar, S.P (2013) Development of a bioreactor

- for remediation of textile effluent and dye mixture: A plant- bacterial synergistic strategy. *Water Res.* **47**, 1035-1048 (IF: **5.323**) **SCI**.
24. Watharkar, A.D., Khandare, R.V., Kamble, A.A., Mulla, A.Y., **Govindwar, S.P.** and Jadhav, J.P. (2013) Phytoremediation potential of *Petunia grandiflora* Juss. an ornamental plant to degrade a disperse, disulfonated triphenylmethane textile dye Brilliant Blue G. *Environ. Sci. Pollut. Res.* **20**, 939–949 (IF: **2.757**) **SCI**.
  25. Kadam, A.A., Kamatkar, J.D., Khandare, R.V., Jadhav, J.P. and **Govindwar, S.P.** (2013) Solid state fermentation: Tool for bioremediation of adsorbed textile dyestuff on distillery industry waste-yeast biomass using isolated *Bacillus cereus* strain EBT1. *Environ. Sci. Pollut. Res.* **20**, 1009–1020 (IF: **2.757**) **SCI**.
  26. Joshi, S.M., Inamdar, S.A., Patil, S.M. and **Govindwar, S.P.** (2013) Molecular assessment of shift in bacterial community in response to Congo Red. *Int. Biodeter. Biodegrad.* **77**, 18-21 (IF: **2.235**) **SCI Expanded**.
  27. Paul, J., Kadam, A.A., **Govindwar, S.P.**, Kumar, P. and Varshney, L. (2013) An insight into the influence of low dose irradiation pretreatment on the microbial decoloration and degradation of Reactive Red-120 dye. *Chemosphere* **90**, 1348–1358 (IF: **3.137**) **SCI**.
  28. Waghmode, T.R., Kurade, M.B., Lade, H.S., and **Govindwar, S.P.** (2012) Decolorization and biodegradation of Rubine GFL by microbial consortium GG-BL in sequential aerobic/microaerophilic process. *Appl. Biochem. Biotechnol.* **167**, 1578-1594. (IF: **1.687**) **SCI**.
  29. Sapkal, R.T., Shinde, S.S., Mahadik, M.A., Mohite, V.S., Waghmode, T.R., **Govindwar, S.P.**, Rajpure, K.Y. and Bhosale, C.H. (2012) Photoelectrocatalytic decolorization and degradation of textile effluent using ZnO thin films. *J. Photochem. Photobiol. B: Biology* **114**, 102-107 (IF: **2.803**) **SCI**.
  30. Patil, J.A., Patil, A.J., Sontakke, A.V. and **Govindwar, S.P.** (2012) Effect of vitamin E supplementation on biochemical parameters in pesticides sprayers of grape gardens of Western Maharashtra (India). *Ind. J. Clin. Biochem.* **27**, 134-140
  31. Waghmode, T.R., Kurade, M.B., Kabra, A.N. and **Govindwar, S.P.** (2012) Biodegradation of Rubine GFL by *Galactomyces geotrichum* MTCC 1360 under microaerophilic condition and subsequent toxicological analysis by using cytotoxicity, genotoxicity and oxidative stress studies. *Microbiology* **158**, 2344-2352 (IF: **2.835**) **SCI Expanded**.
  32. Lade, H.S., Waghmode, T.R., Kadam, A.A. and **Govindwar, S.P.** (2012) Enhanced degradation of disperse azo dye Rubine GFL and textile effluent by synergism of *Aspergillus ochraceus* NCIM-1146 and *Pseudomonas sp.* SUK1. *Int. Biodeter. Biodegrad.* **72**, 94-107 (IF: **2.235**) **SCI Expanded**.
  33. Waghmode, T.R., Kurade, M.B., Kagalkar, A.N. and **Govindwar, S.P.** (2012) Differential fate of metabolism of a disperse dye by microorganisms *Galactomyces geotrichum* and *Brevibacillus laterosporus* and their consortium GG-BL. *J Environ. Sci.* **24**, 1295-1304 (IF: **1.922**) **SCI Expanded**.
  34. Khandare, R.V., Rane, N.R., Waghmode, T.R. and **Govindwar, S.P.** (2012) Bacterial assisted phytoremediation for enhanced degradation of highly sulfonated diazo reactive dye. *Environ. Sci. Pollut. Res.* **19**, 1709-1718 (IF: **2.757**) **SCI**.
  35. Parshetti, G.K., Parshetti, S., Kalyani, D.C., Doong, R. and **Govindwar, S.P.** (2012) Industrial dye decolorizing lignin peroxidase from *Kocuria rosea* MTCC 1532. *Ann Microbiol.* **62**, 217-223 (IF: **1.039**) **SCI Expanded**.

36. Sapkal, R.T., Shinde, S.S., Waghmode, T.R., **Govindwar, S.P.**, Rajpure, K.Y. Bhosale, C.H. (2012) Photo-corrosion inhibition and photoactivity enhancement with tailored zinc oxide thin films. *J. Photochem. Photobiol. B: Biology.* **110**, 15-21 (IF: **2.803**) **SCI**.
37. Telke, A.A., Kim, S.W. and **Govindwar, S.P.** (2012) Significant reduction in toxicity, BOD, and COD of textile dyes and textile industry effluent by a novel bacterium *Pseudomonas* sp. LBC1. *Folia Microbiol.* **57**, 115-122 (IF: **1.145**) **SCI Expanded**.
38. Kabra, A.N., Khandare, R.V., Waghmode, T.R. and **Govindwar, S.P.** (2012) Phytoremediation of textile effluent and mixture of structurally different dyes by *Glandularia pulchella* (Sweet) Tronc. *Chemosphere* **87**, 265-272 (IF: **3.137**) **SCI**.
39. Kurade, M.B., Waghmode, T.R., Kagalkar, A.N. and **Govindwar, S.P.** (2012) Decolorization of textile industry effluent containing disperse dye Scarlet RR by a newly developed bacterial-yeast consortium BL-GG. *Chem. Eng. J* **184**, 33-41 (IF: **4.058**) **SCI**.
40. Waghmode, T.R., Kurade, M.B., Kabra, A.N. and **Govindwar, S.P.** (2012) Degradation of Remazol Red dye by *Galactomyces geotrichum* MTCC 1360 leading to increased iron uptake in *Sorghum vulgare* and *Phaseolus mungo* from soil. *Biotechnol. Bioprocess Eng.* **17**, 117-126 (IF: **1.22**) **SCI Expanded**.
41. Kurade, M.B., Waghmode, T.R., Kabra, A.N. and **Govindwar, S.P.** (2012) Microbial detoxification of disperse dye Brown3REL: A bioremediation approach. *Trajectory* **20**, 1-14.
42. Dawkar, V.V., Jadhav, U.U., Chougale, A.D. and **Govindwar, S.P.** (2011) Lignin: Properties and Applications in Biotechnology and Bioenergy. In: Properties and Applications in Biotechnology and Bioenergy, Eds., Ryan J. Paterson, Nova Science Publishers, Inc. NY.
43. Jadhav, M., Kagalkar, A., Jadhav, S. and **Govindwar, S.** (2011) Isolation, characterization and antifungal application of biosurfactant produced by *Enterobacter* sp. MS16. *Eur. J. Lipid Sci. Technol.* **113**, 1347-1356 (IF: **2.033**) **SCI**.
44. Telke, A.A., Kagalkar, A.N., Jagtap, U.B., Desai, N.S., Bapat, V.A. and Govindwar, S.P. (2011) Biochemical characterization of laccase from hairy root culture of *Brassica juncea* L. and role of redox mediators to enhance its potential for the decolorization of textile dyes. *Planta* **234**:1137–1149 (IF: **3.376**) **SCI**.
45. Kurhe, D.N., Dagade, D.H., Jadhav, J.P., **Govindwar, S.P.** and Patil, K.J. (2011) Thermodynamic studies of amino acid denaturant interactions in aqueous solutions at 298.15K. *J. Solution Chem.* **40**, 1596-1617 (IF: **1.083**) **SCI**.
46. Phugare, S.S., Kagalkar, A.N., **Govindwar, S.P.**, and Jadhav, J.P. (2011) A study on significant microbial interaction leading to decolorization and degradation of textile dye Rubine 3GP. *J Basic Microbiol.* **51**, 499-514 (IF: **1.822**) **SCI**.
47. Ghodake, G., Jadhav, U., Tamboli, D., Kagalkar, A. and **Govindwar, S.** (2011) Decolorization of textile dyes and degradation of mono-azo dye amaranth by *Acinetobacter calcoaceticus* NCIM 2890. *Ind. J. Microbiol.* **51**, 501-508 (IF: **0.832**) **SCI Expanded**.
48. Kagalkar, A.N., Jadhav, M.U., Bapat, V.A., and **Govindwar, S.P.** (2011) Phytodegradation of the triphenylmethane dye Malachite Green mediated by cell suspension cultures of *Blumea malcolmii* Hook. *Bioresour. Technol.* **102**, 10312–10318 (IF: **5.039**) **SCI**.
49. Waghmode, T.R., Kurade, M.B. Khandare, R.V. and **Govindwar, S.P.** (2011) A sequential aerobic/microaerophilic decolorization of sulfonated mono azo dye Golden

- Yellow HER by microbial consortium GG-BL. *Int. Biodeter. Biodegrad.* **65**, 1024-1034 (IF: 2.235) **SCI Expanded.**
50. Gedia, V., Moon, Ji-Y., Lim, W.M., Lee, M.Y., Lee, S.C., Koo, B.S., **Govindwar, S.**, and Yoon, M.Y. (2011) Identification and characterization of inhibitors of *Haemophilus influenzae* acetohydroxy acid synthase. *Enzyme Microb. Technol.* **49**, 1-5 (IF: 2.966) **SCI.**
  51. Tamboli, D.P., Telke, A.A., Dawkar, V.V., Jadhav, S.B. and **Govindwar, S.P.** (2011) Purification and characterization of bacterial aryl alcohol oxidase from *Sphingobacterium* sp. ATM and its uses in textile dye decolorization. *Biotechnol. Bioprocess Eng.* **16**, 661-668 (IF: 1.22) **SCI Expanded.**
  52. Dandge, P.B and Govindwar, S.P. (2011) *In vivo* and *in vitro* effect of sulfamerazine on hepatic mixed function oxidase in rats. *Res. J Pharmacol.* **5**: 53-58.
  53. Dandge, P.B. and Govindwar, S.P. (2011) Effect of sulfamerazine on multiple forms of cytochrome P-450 in rats. *Biosci. Discovery* **2**:162-166.
  54. Saratale, R.G., Saratale, G.D., Chang, J.S. and **Govindwar, S.P.** (2011) Decolorization and degradation of Reactive azo dyes by fixed-bed bioreactors containing immobilized cells of *Proteus vulgaris* NCIM-2027. *Biotechnol. Bioprocess Eng.* **16**, 830-842 (IF: 1.22) **SCI Expanded.**
  55. Parshetti, G.K, Parshetti, S.G., Telke, A.A., Kalyani, D.C., Doong, R.A. and **Govindwar, S.P.** (2011) Biodegradation of crystal violet by *Agrobacterium radiobacter*. *J. Environ. Sci.* **23**, 1384-1393 (IF: 1.66) **SCI Expanded.**
  56. Jadhav, M., Kalme, S., Tamboli, D. and **Govindwar, S.** (2011) Rhamnolipid from *Pseudomonas desmolyticum* NCIM-2112 and its role in the degradation of Brown 3REL. *J Basic Microbiol.* **51**, 385-396 (IF: 1.822) **SCI.**
  57. Kabra, A.N., Khandare, R.V., Kurade, M.B., and **Govindwar, S.P.** (2011) Phytoremediation of a sulphonated azo dye Green HE4B by *Glandularia pulchella* (Sweet) Tronc. (Moss Verbena). *Environ. Sci. Pollut. Res.* **18**, 1360-1373. (IF: 2.757) **SCI.**
  58. Kurade, M.B., Waghmode, T.R. and **Govindwar, S.P.** (2011) Preferential biodegradation of structurally dissimilar dyes from a mixture by *Brevibacillus laterosporus*. *J. Hazard. Mater.* **192**, 1746- 1755. (IF: 3.925) **SCI.**
  59. Kabra, A.N., Khandare, R.V., Waghmode, T.R., and **Govindwar, S.P.** (2011) Differential fate of metabolism of a sulfonated azo dye Remazol Orange 3R by plants *Aster amellus* Linn., *Glandularia pulchella* (Sweet) Tronc. and their consortium. *J. Hazard. Mater.* **190**, 424-431. (IF: 3.925) **SCI.**
  60. Khandare, R.V., Kabra, A.N., Kurade, M.B. and **Govindwar, S.P.** (2011) Phytoremediation potential of *Portulaca grandiflora* Hook. (Moss-Rose) in degrading a sulfonated diazo reactive dye Navy Blue HE2R (Reactive Blue 172) *Bioresour. Technol.* **102**, 6774-6777. (IF: 5.039) **SCI.**
  61. Kadam, A.A., Telke, A.A., Jagtap, S.S. and **Govindwar, S.P.** (2011) Decolorization of adsorbed textile dyes by developed consortium of *Pseudomonas* sp. SUK1 and *Aspergillus ochraceus* NCIM-1146 under solid state fermentation. *J. Hazard. Mater.* **189**, 486-494. (IF: 3.925) **SCI.**
  62. Waghmode, T.R, Kurade, M.B., and **Govindwar, S.P.** (2011) Time dependent degradation of mixture of structurally different azo and non azo dyes by using *Galactomyces geotrichum* MTCC 1360. *Int. Biodeter. Biodegrad.* **65**, 479-486. (IF: 2.235) **SCI Expanded.**

63. Saratale, R.G., Saratale, G.D., Chang, J.S. and **Govindwar, S.P.** (2011) Fixed-bed decolorization of Reactive Blue 172 by *Proteus vulgaris* NCIM-2027 immobilized on *Luffa cylindrica* sponge. *Int. Biodeter. Biodegrad.* **65**, 494-503 (IF: **2.235**) **SCI Expanded**.
64. Jadhav, U.U., Dawkar, V.V., Jadhav, M.U., and **Govindwar, S.P.** (2011) Decolorization of textile dyes using purified banana pulp polyphenol oxidase. *Int. J. Phytoreme.* **13**, 357-372. (IF: **1.466**) **SCI Expanded**.
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