

Curriculum Vitae



1. Name : Dr. Shubha Gopal

2. Address for Communication : Associate Professor
Department of Studies in Microbiology
University of Mysore
Mysore-570006
India
Email: sguom@yahoo.com
Phone: 0821- 2419690(O)

3. Educational Qualifications

- M.Sc. Biotechnology, University of Mysore (1992-1994)
- Ph.D in Biosciences, Mangalore University (1996- 2000)
- Post Doctoral Research Fellow, University of Wurzburg, Germany (2002-2004)
- Visiting Scientist, University of Wurzburg, Germany, 2005 – 2012 (2 months yearly)

4. Awards

- Dr.Kalpana Chawla Young Women Scientist Award for the year 2011 from Karnataka State Council for Science & Technology, Government of Karnataka.
- Best Publication Award (ARP-Award for Research Publication) for the year 2011 from Vision Group on Science & Technology, Government of Karnataka.
- DAAD Fellowship (2002-2004)
- DBT Senior Research Fellowship (1996-2000)
- National Merit Scholarship (1992-1994)

5. Projects:

- a) University Grants Commission (UGC), Government of India, New Delhi sponsored project “Incidence of *Listeria monocytogenes* in clinical samples and their characterization using molecular methods” (2011-2014).
- b) Indo-German collaborative project (ICMR-BMBF) entitled “Thiol – mediated oxidative stress response in *Listeria monocytogenes* in particular in biofilms” (2007-2009).
- c) Department of Science and Technology, New Delhi Government of India, New Delhi (DST FAST TRACK) sponsored project entitled “The role of Glutathione and Thioredoxin metabolism in gram positive bacterium *Listeria monocytogenes* (2006-2009).

6. Publications:

1. Deepashree CL, Gopal S. Free Radical Scavenging Potential of *Canthium parviflorum* extracts. *Journal of Herbs Spices & Medicinal Plants* 2013 – Accepted for publication. DOI:10.1080/10496475.2013.792
2. Deepashree CL, J Komal Kumar, AG Deviprasad, Mahsa Zarei, Shubha Gopal. FTIR spectroscopic studies on *Cleome gynandra* – comparative analysis of functional group before and after extraction. *Romanian Journal of Biophysics* 2013 – Accepted for publication
3. Meghashri S, Gopal S. Biochemical characterization of radical scavenging polyphenols from *Nyctanthes arbortristis*. *Journal of Pharmacy & Bioallied Sciences*. 2012;4(4):341-4.
4. Meghashri S, Gopal S. Dihydroxy Flavone - Induced Cytoplasmic Membrane Damage in *Staphylococcus aureus*. *International Journal Phytomedicine*. 2012;4(2).
5. Vanishree S, Juergen K, Gopal S. *In Silico* horizontal gene transfer and functional motif in GshF protein of *Listeria monocytogenes*. *Online Journal of Bioinformatics*. 2012;13(1): 14-26.
6. Sathisha KR, Khanum SA, Chandra JNNS, Ayisha F, Balaji S, Marathe GK, et al. Synthesis and xanthine oxidase inhibitory activity of 7-methyl-2-(phenoxymethyl)-5H-[1,3,4]thiadiazolo[3,2-a]pyrimidin-5-one derivatives. *Bioorganic & Medicinal Chemistry*. 2011;19(1):211-20.
7. Zameer F, Kreft J, Gopal S. Interaction of *Listeria monocytogenes* and *Staphylococcus epidermidis* in dual species biofilms. *Journal of Food Safety*. 2010;30(4):954-68.
8. Gopal S, Berg D, Hagen N, Schriefer EM, Stoll R, Goebel W, et al. Maltose and Maltodextrin Utilization by *Listeria monocytogenes* Depend on an Inducible ABC Transporter which Is Repressed by Glucose. *PLoS One*. 2010;5(4).
9. Zameer F, Gopal S, Krohne G, Kreft J. Development of a biofilm model for *Listeria monocytogenes* EGD-e. *World Journal of Microbiology & Biotechnology*. 2010;26(6):1143-7.

10. Gopal S, Srinivas V, Zameer F, Kreft J. Prediction of Proteins Putatively Involved in the Thiol: Disulfide Redox Metabolism of a Bacterium (*Listeria*): The CXXC Motif as Query Sequence. *In Silico Biology*. 2009;9(5):407-14.
11. Zameer F, Meghashri S, Gopal S, Rao BR. Chemical and Microbial Dynamics during Composting of Herbal Pharmaceutical Industrial Waste. *E-Journal of Chemistry*. 2010;7(1):143-8.
12. Zameer F, Gopal S. Evaluation of antibiotic susceptibility in mixed culture biofilms. *International Journal of Biotechnology and Biochemistry*. 2010;6(1):93-99.
13. Zameer F, Gopal S. Transcriptome analysis of thiol disulfide redox metabolism genes in *Listeria monocytogenes* in biofilm and planktonic forms. *International Journal of Pure and Applied Sciences*. 2010;4(1):21-27.
14. Zameer F, Gopal S. Impact of Hydrogen Peroxide on Growth and Survival of *Listeria Monocytogenes* Biofilms. *E-Journal of Chemistry*. 2010;7(3):1008-12.
15. Meghashri S, Kumar HV, Gopal S. Antioxidant properties of a novel flavonoid from leaves of *Leucas aspera*. *Food Chemistry*. 2010;122(1):105-10.
16. Meghashri.S, Gopal S. Radical scavenging potential of *Terminalia arjuna* bark. *International Journal of Biotechnology and Biochemistry*. 2009;5(3):307-316.
17. Meghashri.S, Gopal S. *In vitro* antibacterial and antifungal activity of *Glycyrrhiza glabra*. *Journal of Applied Sciences Research*. 2009;5(10):1436-39.
18. Gopal S, Otta SK, Kumar S, Karunasagar I, Nishibuchi M. The occurrence of *Vibrio* species in tropical shrimp culture environments; implications for food safety. *International Journal of Food Microbiology*. 2005;102(2):151-9.
19. Gopal S, Borovok I, Ofer A, Yanku M, Cohen G, Goebel W, et al. A Multidomain Fusion Protein in *Listeria monocytogenes* Catalyzes the Two Primary Activities for Glutathione Biosynthesis. *Journal of Bacteriology*. 2005;187(11):3839-47.

7. Conference/Seminar/Symposium/Invited talks:

1. Deepashree, C.L., Shubha Gopal, "Cleome gynandra and its therapeutic potential" Poster presented at UGC sponsored National Conference on Biotechnological approaches in Medicinal and Aromatic plant Research held at Maharani's Science College for Women, Palace Road, Bangalore, 21st and 22nd March 2013.

2. Invited speaker at DBT - M.Sc., Teaching programme on Plant Biotechnology organized by Post Graduate Department of Studies and Research in Biotechnology, Jnana Ganga, Gulbarga University, Gulbarga, 25th to 27th February 2013.
3. Keynote speaker at National Science Day Celebration organized by Karnataka Science and Technology Academy, Department of Science and Technology, Government of Karnataka in association with Department of Botany, JSS College for Women, Chamarajanagar, 5th March 2013.
4. Sangeetha.M.S, Shubha Gopal, "Isolation of Listeria species from Milk samples" Poster presented at 2nd International Science Congress Association (ISC-2012) Conference at Bon Maharaj Engineering College, Vrindavan, Mathura, UP India from 8th – 9th December 2012.
5. Invited as a Judge for poster presentation in two day National Conference in "Emerging trends in Ayurveda and Herbal Drug Technology" (ETAHDT-2012) jointly organized by Department of Chemistry and Biotechnology (UG & PG) Teresian College, Mysore, Government Ayurveda Medical College, Mysore and Department of AYUSH, Government of Karnataka, Bengaluru, November 22nd and 23rd 2012.
6. Participated in UGC sponsored one day National seminar on "Intellectual Property Rights in Bioinformatics" organized by Post Graduate Department of Biotechnology, JSS College of Arts, Commerce and Science, Ooty Road, Mysore, in association with Association of Microbiologists of India (AMI) Mysore Chapter, Mysore, 8th November 2012
7. Invited speaker at One day seminar on "Biodiversity and its Conservation" organized by Department of Studies in Biotechnology, Microbiology and Biochemistry, Pooja Bhagavat Memorial Mahajana Post Graduate Centre, Mysore, 30th November 2012.
8. Vanishree, S., Shubha Gopal. 'Computational analysis of thiol derived proteins in Listeria monocytogenes EGD-e'. Best oral presentation. International Conference on Chemical, Biological and Medical Sciences. Kuala Lumpur, Malaysia. 25th & 26th August 2012.
9. Participated in 2 day workshop for Chairpersons/ Directors organized by the UGC Academic Staff College, University of Mysore, Manasagangotri, Mysore, 16th & 17th March 2012.

10. Sangeetha, M.S. and Shubha Gopal. "Occurrence of *Listeria* species in environment and food samples". Poster presented at International Conference on Advances in Biological Sciences, organized by Kannur University, Kannur, 15th - 17th March 2012.
11. Deepashree, C.L., Shubha Gopal. Antimicrobial and antioxidant activity of *Canthium parviflorum*. 16th International Convension of Society of Pharmacognosy, Rajkot, Saurashtra University, Gujarat, 9th -11th March 2012.
12. Invited speaker at National Seminar on Molecular Aspects of Microbiology (NSMM-2012) organized by Department of Microbiology, Periyar University, Salem, 7th March 2012.
13. Vineeth, R., Pradeep, H.P., and Shubha Gopal. "Incidence of multidrug resistant and biofilm forming *Staphylococcus aureus* from hospitals in Mysore". Poster presented at 2nd National Conference on Antimicrobial Resistance, Sam Higginbothom Institute of Agriculture, Technology and Science (Deemed to be University), Allahabad, 6th - 8th, February 2012. **(Best Poster Award)**
14. Invited speaker at 7th Refresher Course in Life Sciences organized by UGC-Academic Staff College, University of Mysore, Mysore, 15th December 2011.
15. Invited as a Judge for poster presentation in Fifth International Conference on Fermented Health status and Social Well being: Challenges and opportunities held at Central Food Technological Research Institute, Mysore, 15th -16th December 2011.
16. Invited speaker and Inaugural address at National Level Seminar on Recent Trends in Microbiology EUPRO'11 held at Department of Microbiology, Auxilium College, Gandhi Nagar, Vellore, 12th October 2011.
17. Invited speaker at Euro- Indian week, an International conference held at University of Wuerzburg, Germany, 1st - 8th July 2011.
18. Sumithra Devi.S., Sangeetha M.S., Shubha Gopal. "Potential Spices against Fungal Pathogens". Oral presentation at Oral Competition for Research Scholars organized by Association of Microbiologists India, Mysore Chapter at Department of Studies in Micrbiology, University of Mysore, Mysore, 23rd April 2011 .
19. Farhan Zameer, S. Meghashri, Shubha Gopal, B. Raghavendra Rao. "Chemical and Microbial dynamics during composting of Herbal pharmaceutical Industrial Waste" oral presentation at National seminar on 'Recent trends in Microbial Technology' organized

- by Department of Microbiology, Kakatiya University, Warangal, Andra Pradesh, 26th - 27th March 2011.
20. Participated in one day workshop on “Intellectual Property Rights” jointly organized by KSCST, Bangalore & Centre for Information Science & Technology (CIST), University of Mysore, Mysore held at CIST, University of Mysore, Mysore on 25th March 2011.
 21. Meghashri, S. and Shubha Gopal. “Antioxidant properties of a novel flavanoid from leaves of *Leucas aspera*”. Poster presented at International symposium on Challenges in drug discovery programme (ISCDDP – 2011) organized by Karnataka State Open University, Mysore, 16th -17th February 2011.
 22. Invited speaker at “International Mini Symposium on Infection Biology” organized by University of Wuerzburg, Germany, 4th – 16th October 2010.
 23. Ondrusch,N.,Gopal,S.,Fuss,A.,Hagen,N.,Stoll,R.,Aharonowitz,Y. and Kreft,J. Thioloomics- the thiol: disulfide redox metabolism of *Listeria monocytogenes*. XVII International Symposium on Problems of Listeriosis, Porto, Portugal, 5th - 8th May, 2010.
 24. Gopal.S, Zameer.F and Kreft.J. “Thiol Redox metabolism in *Listeria monocytogenes* – Role in biofilms” Poster presentation at 3rd Congress of European Microbiologists – FEMS 2009, Gothenburg, Sweden June 28th – July 2nd 2009.
 25. B.Gareiss., S.Gopal., P.Herrman ., S.Link and J.Kreft. “Genome- based identification and characterisation of new virulence factors of *Listeria*”. Paper presented at FEMS workshop on “Molecular Basis of Bacterial Pathogenesis” at Ein Gedi, Israel. 23rd - 27th January 2005.
 26. S.Gopal., J.Kreft., I.Borovok., A. Ofer., M. Yanku., G. Cohen., W. Goebel., and Y. Aharonowitz. In *Listeria monocytogenes*, glutathione is synthesized by a novel bifunctional enzyme and is relevant for bacterial survival. XV International Symposium on Problems of Listeriosis, Uppsala, Sweden, 12th – 15th September, 2004.
 27. Shubha,G., Otta,S.K, Karunasagar, I and Karunasagar, I. Molecular typing of vibrios associated with shrimp farms and hatcheries. Paper presented at the 41st Annual conference of Association of Microbiologists of India (AMI), 25th – 27th November 2000, Jaipur, India.
 28. Karunasagar,I., Joseph,B., Otta, S.K., Shubha,G and Karunasagar,I. Genetic Analysis of White Spot Syndrome Virus from cultured shrimps in India. International Conference

On Aquatic Animal Health For Sustainability. 22th – 26th November 1999, Cebu, Philippines.

8. Membership to Academic bodies:

- Editorial member for the Journal of Food Science and Technology
- Life member for Association of Microbiologists of India (AMI)
- Indian Virological Society
- Life member for Indian National Science Congress (ISCA)
- Indian Society for Technical Education

9. Details of guide ship:

- Recognized guide in Biochemistry, Biotechnology and Microbiology
- One Post Doctoral fellow under Dr.A.S.Kothari Fellowship (UGC) working on Antimicrobially active dendrimers for a new dimension to biofilms.
- Number of PhD candidates successfully completed: 2
- Number of PhD candidates currently working: 8