


<b>Faculty Name</b>	<b>Dr. S. Kiran</b>	
<b>Designation</b>	<b>Professor &amp; Head</b>	
<b>Educational Qualifications</b>	Ph. D (Plant Biotechnology)	
<b>Experience in Years</b>	25	
<b>Area of Interest</b>	Plant Biotechnology Microbial & Environmental Biotechnology	
<b>Email Id</b>	kiransvasist@gmail.com hod-bt@dayanandasagar.edu coe-dsce@dayanandasagar.edu	

### International/National Journal Publications:

1. S. A. Tidke, D. Ramakrishna, **S. Kiran**, G. Kosturkova, G.A. Ravishankar. "Analysis of Genetic Diversity of 12 Genotypes of *Glycine max* by Using RAPD Marker. Int J. Curr. Microbiol. App. Sci, volume 6. pp-656-663. July 2017
2. S. A. Tidke, Rakeshkumar KL, D. Ramakrishna, **S. Kiran**, G. Kosturkova, G.A. Ravishankar. "Current Understanding of Endophytes: Their Relevance, Importance, and Industrial Potentials". Journal of Biotechnology and Biochemistry, volume 3. pp-43-59 June 2017
3. S. Skariyachan, A. S. Setlur, S.Y. Naik, A. A. Naik, M. Usharani, **K. S. Vasist**. "Enhanced biodegradation of low and high density polyethylene by novel bacterial consortia formulated from plastic contaminated cow dung under thermophilic conditions" Environ Sci Pollut Res Int. vol. 24, pp. 8443–8457, February 2017.
4. S. Skariyachan, V. Manjunatha, S. Sultana, C. Jois, V. Bai, **K. S. Vasist**. "Novel bacterial consortia isolated from plastic garbage processing areas demonstrated enhanced degradation for low-density polyethylene". Environ Sci Pollut Res Int. vol. 23, pp. 18307-18319. September 2016.
5. D. Ramakrishna, S.A. Tidke, S. K. George, **S. Kiran S**, G.A. Ravishankar. "Salacia sp.: a source of herbal drug for several human diseases and disorders". International Journal of Current Pharmaceutical Review and Research; vol. 7, pp. 129-140. March 2016.
6. J. Preetham, **S. Kiran**, S. R. Sharath, P.S. Sujana Ganapathy, S.S. Murthy."Bridelia scandens: Review on traditional uses and pharmacological aspects" International Journal of Research in Engineering and Technology, Vol.5, pp.27-30. September 2016.
7. S. Skariyachan, A. B. Mahajanakatti, N. J. Grandhi, A. Prasanna, B. Sen, N. Sharma, **K.S. Vasist**, R. Narayanappa. "Environmental monitoring of bacterial contamination and antibiotic resistance patterns of the fecal coliforms isolated from Cauvery River, a major drinking water source in Karnataka, India" Environ Monit Assess. vol. 187, pp. 279. May 2015. doi: 10.1007/s10661-015-4488-4
8. S. Skariyachan, A. Pachiappan, J. Joy, R. Bhaduri, I. Aier, **K.S. Vasist**. "Investigating the therapeutic potential of herbal leads against drug resistant *Listeria monocytogenes* by computational virtual screening and *in-vitro* assays" J Biomol Struct Dyn. vol. 33, pp. 2682-2694. 2015.
9. S. A. Tidke, D. Ramakrishna, **S. Kiran**, G. Kosturkova, G.A. Ravishankar. "Nutraceutical Potential of Soybean: Review" Asian Journal of Clinical Nutrition, vol.7, pp. 22-32, 2015.

- 10 D. Ramakrishna., A. T. Shanhanck., S. K. Shinamol George, S. Kiran, G. A. Ravishankar, “*Salacia sps* – A potent source of herbal drug of antidiabetic and antiobesity ailments : a detailed treatise. International Journal of Pharmacognosy and Phytochemical Research vol. 7, pp. 374-382. 2015;
- 11 J. Preetham, **S. Kiran**, R. Sharath, S. Sundari, S. Ganapathy, .S. Murthy. “Pharmacognostic and Preliminary Phytochemical Studies in *Gnetum Ula* BRONGN” International Research Journal of Pharmacy, vol. 6, pp. 377 – 381. 2015.
- 12 S. Skariyachan, M. Megha, M. N. Kini, M.K. Mukund, A. Rizvi, K. **Vasist**. “Selection and screening of microbial consortia for efficient and ecofriendly degradation of plastic garbage collected from urban and rural areas of Bangalore, India” Environ Monit Assess. vol. 187, pp. 4174. January 2014.
- 13 S. A. Tidke, **S. Kiran**, S. N. Harke. “Analysis of Genetic Diveristy in 20 Cotton Germplasm Lines using Random Amplified Polymorphic DNA Marker” Asian Journal of Plant Sciences, vol. 13 , pp. 184-189.2014.
- 14 J. Preetham, R. Sharath, K.P. Prasanna, P. S. Sujana Ganapathy, **S. Kiran**. “Evaluation of *in-vitro* antioxidant activity of piperlongumine isolated from piper *Longum linn*. Research Journal of Pharmaceutical, Biological and Chemical Sciences. vol. 5, pp. 174-179. 2014.
- 15 S. Skariyachan, P. Lokesh, R. Rao, A.U. Kumar, **K. Vasist**, R. Narayanappa. “A pilot study on water pollution and characterization of multidrug resistant superbugs from Byramangala tank, Ramanagara district, Karnataka, India” Environ Monit Assess. vol. 185, pp. 5483-5495. July 2013.
- 16 P. Lokesh, **S. Kirans**. Studies on epidemiological aspects of air pollutants on Human Health. In proceedings of the conference on Urban Air pollution: Forecasting, Monitoring and Implementation organized by Institute of Engineers (India), Karnataka State Centre, Bangalore, jointly organized by Karnataka Environment Research Foundation and Karnataka State pollution Control Board, February 8 -9, 2010, pp 34-40.
- 17 **S. Kiran**. “Somaclonal variation in ginger – A new report under *in vitro*” J. Cytol. Genet. vol. 4 pp. 75-78, 2003.
- 18 **S. Kiran**. “A Protocol to reduce the cost of nutrient media for large scale multiplication of ginger” J. Curr. Sci. vol. 3, pp. 177-180, 2003.
- 19 **S. Kiran**. “Cytological instability in cultivar ‘Gangasetty’ of *Codiaeum variegatum* “Blume” J. Curr. Sci. vol. 3(1), 2004.

### **Publications in Seminars, Conferences and Symposium:**

1. Pharmacognostic and Preliminary Phytochemical Studies of *Gnetum ula*. Brongn National Symposium on Microbe and Human Welfare. Jointly organized by Postgraduate Department of Biotechnology, JSS and Association of Microbiologists of India (Mysore Chapter), 23-24 March 2015.
2. Prioritizing the Bio degradation Potential of Novel Microbial Consortia Isolated from the Plastic Polluted Environments in Urban and Rural areas of Bangalore, Karnataka, National Symposium on Microbe and Human Welfare. Jointly organized by Postgraduate Department of Biotechnology, JSS and Association of Microbiologists of India (Mysore Chapter), 23-24 March 2015.

3. Exploring the biodegradation potential of microbial consortia screened from the plastic contaminated soil samples in Urban and Rural areas of Bangalore, Karnataka. UGC sponsored National conference on enzyme research in agriculture, food and Industrial Biotechnology (NCERAFIB-2015). Jointly organized by Karnataka Science and Technology Academy, Department of Science and technology, Govt. of Karnataka and Department of Chemistry & Biochemistry, Maharani's Science College for women, Bangalore, 12-13 March 2015.
4. Exploring the inhibitory potential of herbal ligands towards the drug resistant gene products of MDR isolates from Cauvery River, Karnataka, India. Metabolomics-2015. Organised by Department of Biochemistry, Indian Institute of Science, Bangalore, 12-13 January 2015.
5. Selection and screening of novel herbal inhibitors against multidrug resistant *Listeria monocytogenes* by structure based virtual screening and *in vitro* assay. 55<sup>th</sup> Annual conference of Association of Microbiologists of India, National conference on empowering mankind with microbial technologies (AMI-EMMT-2014). Organized by Tamil Nadu Agricultural University, Coimbatore India, 12-12 November 2014.
6. Selection and screening of microbial consortia for efficient and eco-friendly degradation of plastic wastes in Urban and Rural areas of Bangalore, Karnataka State Council for Science and Technology-37<sup>th</sup> Annual meeting and 37<sup>th</sup> series of Student Projects Programme - Seminar and Exhibition: 2013 - 2014, 28-29 July 2014, B.V. Bhoomaraddi College of Engineering and Technology, Hubli.
7. Prevalence of multidrug resistant bacteria in River Cauvery and computational virtual screening for natural inhibitors against MDR genes. 54<sup>th</sup> Annual conference of Association of Microbiologists of India (AMI-2013). Platinum Jubilee Celebrations for Association of Microbiologists of India (AMI) & International Symposium on 'Frontier discoveries and innovations in Microbiology and its interdisciplinary relevance' (FDMIR-2013), November 17-20, 2013, Maharshi Dayanand University Rohtak, Haryana, INDIA.
8. Selection of potential inhibitors against multidrug resistant pathogens by structure based virtual screening, 38<sup>th</sup> Annual conference of environmental mutagen society of India (EMSI), National conference on current perspectives on environmental mutagenesis and human health. Radiation Biology & Health Sciences Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 26-30 January 2013
9. Structure based rational design of novel herbal inhibitors towards multidrug resistant pathogenic bacteria present in River Cauvery, Biotech for a better tomorrow". 13<sup>th</sup> Bangalore India Bio: International conference cum trade show: Organized by Vision Group on Biotechnology, Govt of Karnataka, February 4-6, 2013.
10. Cauvery River has become cesspool of multidrug resistant Pathogenic Coli forms: A major health concern in Karnataka State. Biotech for a better tomorrow". 13<sup>th</sup> Bangalore India Bio: International conference cum Trade show: Organized By Vision Group on Biotechnology, Govt of Karnataka, February 4-6, 2013.
11. A study on the prevalence of multidrug resistant pathogens in River Cauvery: a major health concern in Karnataka, South India. 53<sup>rd</sup> Annual conference of Association of Microbiologists of India (AMI), International conference on "Microbial world: Recent innovations and future trends" November 22-25, 2012, KIIT University, Bhubaneswar, Odisha, India.
12. Computer aided virtual screening and *in vitro* evaluation of herbal therapeutics against Streptococcal infections, UGC and DBT sponsored National conference on "computational biology, pharmaceutical & life sciences, Maharani Lakshmi Ammanni College for Women, Bangalore, 23 – 24 November.

13. Structure based virtual screening of natural therapeutics against Streptococci mediated outbreaks and inhibition of their virulence potential. 5<sup>th</sup> Annual KSTA Conference-2012, State level conference on “Science and technology for societal transformation” Jointly organized by Karnataka Science and Technology Academy and Dayananda Sagar Institutions, 19-20 December 2012.
14. Evaluation of Antioxidant activity of methanolic root extract and piperlongumine isolated compound from root of Piper longum Linn. National Conference on recent Advances in Health, Agriculture and Environmental Biotechnology 11<sup>th</sup> – 13<sup>th</sup> April 2012.
15. Prudent elucidation of physiochemical and bacterial characteristics of Byramangala tank, Ramanagara district. “Aarohan 2011”- State level symposium and inter-collegiate Biotechnology fest. Organized by Department of Biotechnology, New Horizon College of Engineering, Bangalore. October 31, 2011.
16. Physiochemical and bacteriological characterization of Byramangala tank, Ramanagara district, Karnataka, India. Under the track water resources (SDEWES11-0645). Sponsored by UNESCO, 6<sup>th</sup> DUBROVNIK Conference on Sustainable Development of Energy Water and Environment System, Dubrovnik, Croatia. 25 – 29 September, 2011.
17. Microbial characterization of *Clostridium perfringens* from cooked meat-poultry samples and *in silico* simulations of delta enterotoxin, Bangalore India Bio-2011, An international symposium. Organized by Vision group on Biotechnology, Department of IT & BT, Govt. of Karnataka, 04-06 May, 2011
18. Microbial characterization of *Clostridium perfringens* from cooked meat-poultry samples and *in silico* simulations of Delta enterotoxin ,16<sup>th</sup> National Conference on aerobiology & National Symposium on Applications of Biotechnology in Environment Management & Medicine,. Bapuji Institute of Engineering & Technology, Davanagere. 19- 21 November 2010.
19. Micropropagation of *Dendrocalamus brandisii* using nodal segments. In: International Conference on Convergence of Science and Engineering in Education and Research - A Global Perspective in the New Millenium, April 21-23 2010, Bangalore.
20. Somaclonal Variation in *Zingiber officinale*: Screening for tolerance to *Pythium aphanidermatum*, in 27<sup>th</sup> International Botanical Congress, 2006, Vienna, Austria.
21. *In vitro* Morphogenetic Studies in Vanilla (*Vanilla planifolia* Andrews) -in 5<sup>th</sup> International Food Convention, IFCON 2003 organized by CFTRI, Mysore.
22. Isolation of Somaclones in *Zingiber officinale* Rosc.- organized by Department of Applied Genetics, Bangalore University, Bangalore, 2000.
23. Induction of Somatic embryogenesis in *Zingiber officinale* Rosc.- organized by Department of Botany, Jai Narayan Vyas University, Jodhpur 1999.
24. Methods for reducing the cost of micropropagation of Ginger- in National Symposium on Commercial aspects of Plant Tissue Culture, Molecular biology and Medicinal Plant Biotechnology organized by Jamia Hamdard, Hamdard University, New Delhi 1998.
25. *In vitro* mutation studies in Ginger- organized by Department of Botany, Karnatak University, Dharwad 1998.
26. Micropropagation of Ginger through tissue culture technology- in National Conference on Frontiers in Biotechnology organized by Department of Biotechnology, Baba Saheb Ambedkar University, Aurangabad 1998.
27. Clonal propagation of Ginger- in National Symposium on Horticultural Biotechnology organized by Indian Institute of Horticultural Research, Bangalore 1997.