

Dr. ST Girisha *M.Sc., Ph.D., FISBT*

Professor

Department of Microbiology and Biotechnology

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Area of research:

⇒ **Gene expression studies**

Diacyl glycerol transferase (DGAT) gene with Tuf gene as a reference for comparison of gene expression. The amplicon size of Tuf genes was 220bp and DGAT gene was 157 bp. cyclic threshold (Ct) value of Tuf gene to be 26.2242 and for DGAT gene to be 17.9228. The difference in Ct value was found to be 8.3014 which accounted for a 16-fold difference between the two genes indicating that DGAT is 16 folds over-expressed compared to Tuf gene

Professional summary:

⇒ Doctoral of Philosophy in Botany

⇒ Fifteen-year Research experience in Molecular Genetics, Bioenergy & Cancer biology

⇒ Twenty-five-year teaching experience

Teaching experience:

1. Served as Lecturer in Department of Botany and Microbiology, Manasagangotri, University of Mysore, Mysore (1993 – 1994). 1 year
2. Served as Lecturer in Yuvaraja's college, University of Mysore, Mysore (2004 – 2007). 3 years
3. Serving as Associate professor in Department of Microbiology and Biotechnology, Jnana Bharathi campus, Bangalore University, Bangalore (2007 – till date)

Subjects teaching:

Molecular Genetics, Immunology

Honors, Awards and Medals:

1. **FISBT** Award by International Society of Biotechnology - 2007

2. **Mahanshree Rathna Award** by Academy of common wealth education and humanities studies (ACWEHS) - 2008
3. Appreciation and places it on record the contribution made for the growth and development of science in general and societal application in particular by Bangalore University on **Science Day** - 2011
4. **Seva Sikshakaru** award by World Academy of Science, Humanities Education and Literature in connection with **Prof G. Venkatasubaiah 101th birth anniversary** -2013

Academic training completed:

- Successful completion of Orientation programme, from 01.02.2010 to 28.02.2010 from UGC academic staff college, Manasa Gongothri, Mysore University, Mysore, with A – Grade
- Successful completion of Refresher course, from 23.02.2012 to 14.03.2012 from UGC academic staff college, Bangalore University, Bangalore, with A – Grade
- Successful completion of Refresher course, from 02.12.2014 to 22.12.2014 from UGC academic staff college, Manasa Gongothri, Mysore University, Mysore, with A – Grade

Workshops:

1. Two-day orientation course on the use of SPSS statistical software, Department of statistics, Bangalore University, Bangalore, Sep – 2007 (State – Attended)
2. Work shop on access to e-resources for teaching and research, Bangalore University and INFLIBNET, Apr-2008 (State - Attended)
3. Work shop on NAAC Re accreditation – A New Methodology, Visveswarapura college of science, Bangalore, July -2009 (State - Attended)
4. Work shop on RAPD by PCR Methods - Dept of Biotechnology, Visveswarapura college of science, Bangalore, August – 2009 (State - Attended)
5. Workshop on Review of B, Sc degree semester syllabus in Biotechnology- Dept of Studies and Research in Biotechnology Bangalore University and Visveswarapura college of science, Bangalore, October – 2009 (National – Attended)
6. Springer summit on materials and protocols, Bangalore, Jun – 2013 (National – Attended)
7. DST and ICFRI one week training programme on climate change and carbon mitigation, Deharadun, Oct – 2013 (National – Attended)
8. Two-day lecture Work shop on Insight from evolutionary biology, Dept of life science MES college in association with IAS, INSA and NAS, Bangalore, Feb – 2014 (State - Attended)

9. DST sponsored Mass spectrometry for proteomics workshop, held at advanced instrumentation research facility, JNU, New Delhi, August-2014 (National - Attended)
10. GIS, GPS & Remote Sensing Training, Department of Geography & Geoinformatics and Bangalore University under the sponsorship of National Natural Remote Sensing (NNRMS) of Department of Space, Government of India (06-02-2017 to 26-02-2017)
11. National training on application and trouble shooting of scientific equipment IOE, UPE and CPEPA, Mysore University (1 to 8th Dec 2017)
12. Karnataka state council for science and technology – orientation programme on biofuels, March – 2018
13. State level workshop on intellectual property rights in research and business Feb -2018
14. Orientation programme on E database and techniques for faculty and student of Bangalore University, June -2018

Resource person:

1. Bangalore University, DST Inspire internship science camp – Jan 2012, Nov 2013
2. Coaching for CSIR NET Examination in life sciences conducted in Bangalore University - 2012
3. Karnataka State women's University, Bijapur – Nov 2013, Jan 2014
4. Kannada Vishwavidyanilaya, Hampi – Resource person for refresher course - February 2015
5. BNM Institute of Technology - April 2016
6. Karnataka renewable energy development Ltd. Feb -2018

Membership of professional bodies:

1. Society of Biological Chemist, India (SBC) - Life member, 2007
2. Fellow of International Society of Biotechnology (FISBT) - Fellow member, 2007
3. The Indian Science Congress Association (ISCA) - Life member, 2007
4. Association of Microbiologists of India (AMI) – Life member, 2014
5. Microbiologists Society, India (MSI) – Life member, 2020

Peer reviewer for:

1. Journal of Plant Interactions
2. Natural Product Research
3. African Journal of Biotechnology
4. Biotechnology Reports

Academic / Teaching & responsibilities:

1. Question paper setter, Karnataka Public Service Commission (KPSC), Govt. of Karnataka, 2015
2. Served as Deputy Custodian - M. Sc Microbiology exams, Bangalore University – 2009
3. Served as Chief Squad – MA, MSc, M Com, LLM, Edn, MFA, MIB, Integrated courses PG Exams Bangalore University - Jan/ Feb 2011-12
4. Served as Deputy Custodian – PG I and III Sem Science subjects of JB campus, Bangalore University - June/July 2017
5. Served as Deputy Custodian – PG II and IV Sem Science subjects of JB campus, Bangalore University - June/July 2017.
6. BOE Member in Bangalore and other Karnataka Universities
7. Question paper setter, Practical examiner and Paper evaluator in Bangalore and other Karnataka Universities
8. BOE Chairman PG I and III Sem Microbiology and Biotechnology, Bangalore city University, 2019
9. BOE Chairman PG I and III Sem Microbiology and Biotechnology, Bangalore North University, 2019
10. BOE Chairman PG II and IV Sem Microbiology and Biotechnology, Bangalore North University, 2020
11. Served as Chief Squad – MBA PG Exams Bangalore University – Oct / Nov 2020
12. BOE Chairman PG I and III Sem Biotechnology, Bangalore University, 2022
13. BOE Member PG I and II Sem Microbiology, Kuempu University, Shivamogga, 2022
14. BOE Member PG I and II Sem Biotechnology, Kuempu University, Shivamogga, 2022
15. BOE Member PG I and II Sem Biotechnology, Karnataka State Women’s University, Vijayapura, 2022
16. BOE Chairman PG I and II Sem Microbiology, Ranichannamma University, Belagavi, 2023
17. BOE Chairman PG I and II Sem Microbiology and Biotechnology, Bangalore city University, Bangalore, 2022
18. Member faculty of science, Bangalore University, Bangalore, 2022
19. Governing council member, Bangalore University, Bangalore, 2022
20. Chief custodian, All PG exams, Bangalore University, Bangalore, 2023

Involvement with formulation of academic programmes:

1. Syllabus committee member in PG Microbiology and Biotechnology, Bangalore City University, 2019
2. Syllabus committee member in PG Microbiology and Biotechnology, Bangalore University, 2021

Administrative Experience / Posts & Responsibilities held:

1. Served as Chief Warden (PG-5) - JB Campus, Bangalore University - 2011
2. Served as Deputy Coordinator of UGC refresher course in life science – UGC academic staff college, Bangalore University – 2015
3. Serving as Chief Warden (PG-3) - JB Campus, Bangalore University - September 2016 till date
4. Served as Member in food committee - Yuvajanothsava - 32nd South Zone Inter University Youth Festival, Bangalore University - 16 to 20th December, 2016
5. Served as Member in food committee – Ambedkar Jayanthi, Bangalore University - October, 2019
6. Serving as coordinator, Bangalore University biopark -2020 till date

Techniques Known:

Lipidomics and Genomics

Research projects:

1. Biodiesel production from some microorganisms – UGC-MRP -2009
2. Molecular Diagnosis and Ecofriendly Management of root-rot diseases of *Coleus forskholii*– A multi medicinal herb (Bangalore University) -2011
3. Bioethanol production from finger millet husk-KSCST-2018
4. A Novel approach in exploitation of waste Alginate Generated in Plant Tissue Culture Laboratory towards production of Bio-ethanol" No. KSTePS/VGST-RGSF/2018-19/GRD No.793/315 Date: 17.07.2019 (Co PI)
5. Establishment of wild edible fruits garden in Bangalore University Biopark (Bangalore University) - 2022

Ph.D. Guidance:

1. Mr. Ravikumar – A Study on Biodiesel Production from oleaginous Fungi (**Awarded**)
2. Miss. Sarvamangala - Biobenefication of minerals by *Bacillus subtilis* - a Biotechnological approach (**Awarded**)

3. Mr. Sumanth – Isolation and Characterization of a Bioactive Compound from Medicinal Plants showing Anticancer Properties (**Awarded**)
4. Miss. Mrunalini – Evaluation of oleaginous Microorganisms for alternate fuel production (**Awarded**)
5. Miss. Anushree - Studies on of Nitrated DNA in Stress Induced PC 12 Neuronal Cells (**Awarded**)
6. Mr. V Girisha – Isolation and molecular characterization of yeast strains from waste fruits for biofuel production (**Awarded, 2020**)
7. Mr. Manjunatha S – Evaluation of microalgae for lipid accumulation and biodiesel production (**Awarded, 2021**)
8. Mr. Sunil K R - Bioethanol production from aquatic plant by using *Saccharomyces cerivecae* (**Awarded, 2021**)
9. Samyami DP – Bioethanol production from lingo cellosic biomass
10. Dilip Kumar – Co delivery of si RNA encapsulated by lipid nanoparticles for silencing the targeted gene in MiaPaca cell line
11. Shruthi HM - Microbial synthesis of silver nano particles and its biological activities

PUBLICATIONS:

Papers published in refereed National Journals:

1. **Girisha ST**, M Muniyamma and S Umesha (2004) Anatomical Changes in Fodder Grass due to Domestic Sewage Water Irrigation. Indian J. Environ. Prot. 24(10): 727 – 730 (ISSN: 0253-7141, First Author)
2. **Girisha ST** and S Umesha (2005) Mineral Nutrient Content Variation in Fodder Grass Due to Use of Urban Sewage Water. Eco. Env and Cons. 11 (3-4): 479 – 482 (ISSN: 0971-765X, First Author)
3. **Girisha ST** and S Umesha (2005) Phyllosphere Studies in Sewage Water Irrigated Fodder Grass *B. mutica*. Indian J. Environ and Ecoplan. 10(3): 625 – 630 (ISSN: 0972-215, First Author)
4. **Girisha ST** and NS Raju (2005) Variation in the Morphological Characters of *Brachiaria mutica* due to Urban Sewage Water Irrigation. Indian J. Environ and Ecoplan. 10(2): 435 – 439 (ISSN: 0972-1215, First Author)
5. **Girisha ST**, M Muniyamma and S Umesha (2006) Effect of Sewage Water on Soil Chemical Composition. J. Ecotoxicol. Environ. Monit. 16(3): 279 – 284 (ISSN: 0971-9065, First Author)
6. **Girisha ST**, M Muniyamma and S Umesha (2006) Heavy Metal Impact on *Brachiaria mutica* A Fodder Grass during Sewage Water Irrigation. J. Ind Poll Cont. 21(2): 285 – 290 (ISSN: 0970-2083, First Author)

7. **Girisha ST**, NS Raju and GV Venkataramana (2006) Impact of Municipal Sewage Water on Yield Parameters of Different Varieties of Groundnut (*Arachis hypogaea*. L) Nature Environ and Poll Tech. 5(4): 627 – 629 (ISSN: 0971-4871, First Author, **IF- 0.3**)
8. **Girisha ST**, M Muniyamma and S Umesha (2007) Impact of Sewage Water on the Protein, Carbohydrate and Amino acid contents of the Fodder Grass *Brachiaria mutica*. J. Ecobiol. 21(3):241 – 246 (ISSN: 0970-9037, First Author)
9. **Girisha ST** and NS Raju (2008) Effect of Sewage Water on Seed Germination and Vigour index of Different Varieties of Groundnut (*Arachis hypogaea*. L) J. Environ. Biol. 29(6): 937-939 (ISSN: 0254-8704, First Author, **IF-1.0**)
10. Niranjan MH, MS Sudarshana and **ST Girisha** (2010) Hepatoprotective activity of *Nymphoides cristatum* on carbon tetrachloride induced acute hepatic damage in albino rats. J. Pharmacy research. 3(4): 697-699 (ISSN: 2321- 4988, Corresponding Author, **IF- 2.507**).
11. Ravikumar K, Dakshayini J, V Girish and **ST Girisha** (2013) Effect of cultural conditions for the production of microbial oils from *Mortierella* sp, J Biofuel. 4 (2): 68-78 (ISSN: 0976-3015, Corresponding Author)
12. **Sirangala T Girisha**, Krishnappa Ravikumar, Venkatachalapathy Girish and Bangalore R Mrunalini (2014) Growing of *Chlorella*, *Scenedesmus* and *Botryococcus* in Sewage water for Biodiesel production, Archives of Applied Science Research Journal 6 (1): 131-138 (ISSN: 0975-508X, First Author)
13. Sumantha Malur Gopalakrishna, **Girisha Sirangala Thimappa**, Ramesh Puttalingaiah Thylur, Yogisha Shivanna and Anand Sreenivasan (2014) In vitro anticancer activity of *Solanum indicum*, *Rhus succedanea*, *Rheum emodi* and *Gardenia gummifera* in Cancer Cells. Research and reviews: journal of pharmacy and pharmaceutical sciences. 3(4): 22-30 (ISSN: 2320-1215, corresponding author. **IF-1.11**)
14. Sarvamangala H. and **ST Girisha** (2015) Bioremediation of acid mine drainage- A proteomic and genomic approach. Journal of Environmental Research and Development.8 (3A):1-10. (ISSN 0973-6921, corresponding author. **IF-4.301**)
15. **Sirangala Thimappa Girisha** (2016) Sewage water induced mitotic abnormalities in *Brachiaria mutica* a fodder grass. Vijnana bharathi. 1(2) 50-54. (ISSN: 0971-6882, First Author)
16. Ravi kumar K, B.R. Mrunalini and **ST Girisha** (2016) Evaluation of entophytic fungal Spp. for biodiesel production. Vijnanabharathi - A frontier journal in science. 1(1) 49-57. (ISSN: 0971-6882, corresponding author)

17. Siddaramaiah Manjunatha Sunnaghatta and **Girisha Shirangala Thimappa** (2017) Production and Characterisation of Biodiesel from Non-edible Oils. Journal of Biofuel. 8(2) 109 - 117 (ISSN: 0976-3015 corresponding author)
18. Varun H.R, Samyami D.P and Girisha S.T. (2022) “De novo Transcriptome, Annotation, and Identification of genes involved in *Xanthium strumarium*” Applied biological research (ISSN: 0972-0979 corresponding author).

Papers published in refereed International Journals:

1. Vinay B. Raghavendra, S Lokesh, **ST Girisha**, M Govindappa and HS Prakash (2006) Antifungal Activity of Aqueous Extract of Safed Musli against Seed Mycoflora of Some Crop Species. American Eurasian J. Agric and Environ. Sci, 1(2): 86 – 90 (ISSN: 1818-6769, 3rd Author, **IF- 0.3**)
2. Venkataramana GV, PN Sandhya Rani, NS Raju, **ST Girisha** and Vinay B. Raghavendra (2007) Physico-Chemical Characteristics and Impact of Aquatic Pollutants on the Vital Organs of a Freshwater Fish *Glossogobius giuris*. Research J. Environ Toxicol, 1(1): 1 – 15 (ISSN: 1819-3420, 4th Author, **IF- 0.4**)
3. Raju NS, GV Venkataramana, **ST Girisha**, Vinay B. Raghavendra and P Shivashankar (2007) Isolation and Evaluation of Indigenous Soil Fungi for Decolourization of Textile Dyes. J. Applied Sciences, 7(2): 298-301 (ISSN: 2165-3917, 3rd Author, **IF- 0.35**)
4. Vinay B. Raghavendra, N Sunayana, M Govindappa, AJ Mahadesh Prasad, **ST Girisha** and S Lokesh (2007) First report of fusarium oxysporum causing Fusarium wilt on Tuja orientalis in India. Australasian Plant Disease Notes, 2: 87-88 (ISSN: 1833-928X, 5th Author, **IF-1.0. Springer**)
5. Niranjana MH, MS Sudarshana, Dharmendra and **ST Girisha** (2008) Rescue of in vitro shoot tip necrosis in Lagerstromia indica L. International J. plant sciences, 3(2): 622-623 (ISSN: 1058-5893, Corresponding Author, **IF- 1.53**)
6. Niranjana MH, MS Sudarshana and **ST Girisha** (2008) Direct Somatic embryogenesis and Plant regeneration from leaf explants of Nymphoides cristatum: A medicinally important plant. Global. J. biotech and biochem, 3(2): 79- 82 (ISSN: 2078-466X, Corresponding Author, **IF- 0.67**)
7. Sudarshana S, MH Niranjana and **ST Girisha** (2008) In vitro flowering, Somatic embryogenesis and regeneration in Boerhaavia diffusa Linn. – A medicinal plant. Global. J. biotech and biochem, 3(2): 83-86 (ISSN: 2078-466X, Corresponding Author, **IF- 0.67**)
8. Umesha S, P Hariprasad, SA Deepak, **ST Girisha** and P Syltie (2009) Vitazyme treatment improves seed quality parameters of Paddy, tomato and cotton, Asian j. Microbial. Biotech. Env. Sc, 11(1): 223-230 (ISSN: 0972-3005, 4th Author, **IF-2.6**)

9. **Girisha ST**, MH Niranjana, Vinay B. Raghavendra and NS Raju (2009) Biochemical and Minerals studies of K-134 Variety Groundnut (*Arachis hypogaea*. L) Grown in Municipal Water. *Inter. J. App Environ. Scien*, 4(1): 1-8 (ISSN 0973-6077, First Author, **IF- 0.8**)
10. **Girisha ST** and Vinay B. Raghavendra (2009) Accumulation of heavy metals in leafy vegetables grown in urban areas by using sewage water and its effect. *Archives of Phytopathology and Plant Protection*, 42 (10): 956 – 959 (ISSN 0323-5408, First Author, **Taylor and Francis**)
11. Niranjana MH, MS Sudarshana and **ST Girisha** (2010) In vitro multiple shoot induction from excised shoot tip and nodal segment explants of – *lagerstroemia indica* (L) – a medicinal cum ornamental shrub. *J Bio Med. Sci and Res*, 2(3): 212 – 217 (ISSN 0975-542X, Corresponding Author)
12. Chathuri P. Mudalige, NS Jyothi, Uma. G. Chikabire and **ST Girisha** (2011) Bio control of root-rot disease of *Coleus forskohlii* and *Coleus amboinicus* by using plant extracts as antifungal agents. *Archives of Phytopathology and plant protection*, 44 (9): 888-893 (ISSN 0323-5408, Corresponding Author, **Taylor and Francis**)
13. Chathuri Mudalige, **ST Girisha**, VB Raghavendra, MH Niranjana, K Ravikumar and MG Sumantha (2011) Molecular characterization of *Macrophomina phaseolina*, the Incitant of *Coleus forskohlii* revealed by RAPD markers. *Inter J Life Scie*, 5(1):44-50 (ISSN 2091-0525, Corresponding Author)
14. Ravikumar K, J Dakshayini and **ST Girisha** (2012) Biodiesel Production from Oleaginous Fungi. *Inter J Life Scie*, 6(1)-43-49 (ISSN 2091-0525, Corresponding Author)
15. Sarvamangala H, KA Natarajan and **ST Girisha** (2012) Microbially induced Pyrite removal from Galena Using *Bacillus subtilis*. *Inter J miner process*, 120:15- 21 (ISSN 0301-7516, Corresponding Author, **IF- 3.54**)
16. Sarvamangala H, KA Natarajan and **ST Girisha** (2012) Microbially induced biobenefication of hematite. XXVI international mineral processing congress (IMPC), 24- 28 September, New Delhi, paper number-104 (**Conference Proceedings**)
17. **Sirangala Thimappa Girisha**, Krishnappa Ravikumar, Bangalore Radhakrishna Mrunalini and Venkatachalapathy Girish (2013) Lipid Extraction for Biodiesel Production from Dairy Waste Water Sludge, *International J Advances in Science and Technology*, 7(6): 127- 133 (ISSN 2229 – 5216, First Author)
18. Ravikumar K, Dakshayini J, Girish V, Girisha ST (2013) Effect of Culture Conditions on the Production of Microbial Oils from *Mortierella* sp. *Journal of Biofuels*, 4 (2), 68-78
19. **Sirangala Thimappa Girisha**, Krishnappa Ravikumar, Bangalore Radhakrishna Mrunalini and Venkatachalapathy Girish (2014) Comparative study of extraction methods and properties of non edible oils for biodiesel production, *Asian J Plant Sci and Res*, 4(1):28-35 (ISSN: 2249-7412 First Author)

20. **Sirangala Thimappa Girisha**, Krishnappa Ravikumar, Mrunalini and Venkatachalapathy Girish (2014) Lipid extraction for biodiesel production from municipal sewage water sludge, *European J Expt Biol*, 4(1):242-249 (ISSN: 2248 –9215 First Author)
21. Venkatachalapathy Girish, Krishnappa Ravi Kumar and **Sirangala Thimmappa Girisha** (2014) Estimation of sugar and bio ethanol from different decaying fruits extract, *Advances in Applied Science Research*, 5(1):106-110 (ISSN: 0976-8610, Corresponding Author)
22. Dakshayini Jayaramareddy, Ravikumar Krishnappa and **Girisha Sirangala Thimmappa** (2014) Microalgae cultivation in different pH, Temperature and Media for lipid production, *Inter J Life Scie*, 8(2):13- 17 (ISSN 2091-0525, Corresponding Author)
23. Sarvamangala H and **ST Girisha** (2014) Separation of Pyrite from Oxide Gangue Minerals using *Bacillus subtilism*, *International J Advances in Science and Technology*, 8(1): 46-56 (ISSN 2229 – 5216, Corresponding Author)
24. P Shruthi, T Rajeshwari, BR Mrunalini, V Girish and **ST Girisha** (2014) Evaluation of Oleaginous Bacteria for Potential Biofuel, *Int. J. Curr.Microbiol. App.Sci*,3(9):47-57 (ISSN: 2319-7706 Corresponding Author)
25. **Sirangala T Girisha** (2014) Lead Bioremediation with respect to Mining and Industrial effluents, *International Research Journal of Environmental Sciences*, 3(10):14-19 (ISSN: 2319-7706 Single Author)
26. **Sirangala Thimappa Girisha** (2014) Utilization of Exo polymers secreted by *Bacillus licheniformis* for the remediation of Lead, *International Research Journal of Biological Sciences*, 4 (1): 1-5 (ISSN: 2278 - 3202 Single Author)
27. Sumantha Malur Gopalakrishna, **Girisha Sirangala Thimappa**, Ramesh Puttalingaiah Thylur, Yogisha Shivanna and Anand Sreenivasan (2014) A Novel Poly Herbal Formulation Induces Apoptotic Cell Death in Prostate and Colorectal Carcinoma Cells. *International Journal of Scientific Research and Reviews*, 3(4): 58 - 74 (ISSN: 2279 – 0543 Corresponding Author, **IF- 1.33**)
28. Ravi kumar K, Mrunalini B R and **Girisha ST** (2015) Strain improvement of an endophytic fungal spp. for biodiesel production, *Research in Biotechnology*, 6(4): 01-18 (ISSN: 2229-791X - Corresponding Author)
29. Kodichetty Ramaiah Sunil, Merin John, Venkatachalapathi Girish and **Sirangala Thimappa Girisha** (2015) A comparative study of bioethanol production from aquatic weeds, *Int J Appl Sci Biotechnol*, 3(3): 446-451 (ISSN: 2091 – 2609 Corresponding Author, **IF- 1. 42**)

30. Anushree, Gopi A, **Girisha ST** and Devaraju KS (2016) Comparative study of UV- Vis spectra and restriction digestion gel patterns of DNA and nitrated DNA, European Journal of Biotechnology and Bioscience, 4(1): 63-69 (ISSN: 2321-9122 Co Guide, **IF- RJIF 5. 44**)
31. Ravikumar K, Mrunalini BR and **Girisha ST** (2016) Growth parameter studies in an oleaginous fungal spp. for biodiesel production, international journal of biological research, 4(7):139-149 (ISSN: 2307-9029 Corresponding Author)
32. Mrunalini BR and **Girisha ST** (2016) Characterization of β glucosidase from wood rotting fungi to facilitate efficient plant biomass biodegradation for biofuel production. International Journal of Advanced Research, 4(7): 881-890 (ISSN – 2320 - 5407 Corresponding Author)
33. Vinay B. Raghavendra, N. Sunayana, M. Uzma and **ST Girish**(2016) Anti-diabetic properties of Kalanchoe pinnata (lam.) Pers. In Alloxan induced diabetic mice. Asian Journal of Research in Biological and Pharmaceutical Sciences, 4(4): 143 – 151 (ISSN: 2349 – 4492 Fourth Author)
34. Sarvamangala H, Vinay B. Raghavendra and **ST Girisha** (2017) Biobenefication of Oxide Minerals from Bacillus subtilis Using FTIR and MALDI-TOF Techniques, Journal of Environmental Protection, 8, 194-205 (ISSN: 2152-2219 Corresponding author, IF- 1. 02)
35. BR Mrunalini and **ST Girisha** (2017) Molecular Phylogenetic Analysis of Soil bacteria, Research Journal of Chemistry and Environment, 21(4), 35- 41 (ISSN: 0972-0626 Corresponding author)
36. BR Mrunalini and **ST Girisha** (2017) Screening and Characterization of Lipid inclusions in Bacteria by Fluorescence Microscopy and Mass Spectrometry as a Source for Biofuel Production, Indian Journal of Science and Technology, 10(21), 1-7 (ISSN : 0974-6846 Corresponding author)
37. Anushree, Aravinda P, **Girisha ST**, Devaraju KS (2017) Parkinson gene expression study by QPCR in nitrosative stress induced pc12 cell lines International Journal of Pharma and Biosciences, 8(4), 49 - 56 (ISSN 0975 -6299 Second author)
38. **Sriragala Thimappa Girisha**, Manjunatha Sunnaghatta Siddaramaiah and Sunil Kodishetty Ramaiah (2017) Efficacy of Cellulose Degrading Microbes in Bio-ethanol Production from Estuarine Algae – *Ulva lactuca* J. Algal Biomass Utln. 8(4): 110-117 (ISSN: 2229 – 6905 First author)
39. **Shringala Thimappa Girisha** (2018) Meiotic abnormalities in Brachiaria mutica (forssk.) Stapf, Life sciences, international research journal 5(2): 76-81 (ISSN: 2347-8691 Single author)
40. **Sirangala Thimappa Girisha** (2019) Anti proliferative effect of *Rhus succedanea*, *Rheum emodi* and *Gardenia gummifera* in prostate pc-3 cells, International journal of pharmacy and biological sciences, 9 (1): 705-710 (ISSN: 2230-7605 Single author)

41. **Girisha, ST** and Manjunatha SS (2019) Production and characterization of biodiesel from saturated and unsaturated oils using acid, base and enzyme catalyst, International Journal of Scientific Research and Reviews, 8(1):2655-2671 (ISSN: 2279-0543 Corresponding author)
42. **Shringala Thimappa Girisha** (2019) Green conversion of waste fruit rinds in to bioethanol, Journal of Advanced Scientific Research, 10(2):23 -29 (ISSN: 0976-9595 Single author)
43. Sunnaghatta Siddaramaiah Manjunatha and **Shirangala Thimappa Girisha** (2019) Isolation and screening of *Chlorella sorokiniana* for wastewater treatment and biodiesel production. International Journal of Scientific Research in Biological Sciences, 6 (2): 59-67 (ISSN: 2347-7520 Corresponding author)
44. Venkatachalapathy Girish and **Thimappa Girisha Shiringala** (2019) Waste to Energy: Pineapple- A potential sustainable feedstock for bioethanol production, Journal of Biofuels, 10(1): 25- 34 (ISSN: 0976-3015 **Removed form UGC**)
45. KR Sunil, K N Lokesh and **ST Girisha** (2019) Optimization of cellulase production by *Bacillus cereus* through Response Surface Methodology and its application in saccharification of biomass, Indian Journal of Environmental Protection,39(12), 1091 -1099 (ISSN: 0253 – 7141 Corresponding author)
46. Sarwamangala H, Vinay Ragavendra B and **Girisha ST** (2020) Biobenefication of sulphide minerals from *Bacillus subtilis* using XRD, EDAX and FTIR techniques, Research Journal of Chemistry and Environment 24(1) 86- 92 (ISSN: 0972-0626 Corresponding author)
47. Nataraj K, **Girisha S.T** and Vinay B. Raghavendra (2020) Miracle plant *Eryngium foetidum* Linn- A review on Ethnobotanical, Phytochemical composition and Pharmacology, International Journal of Advanced science and technology, 29 (02) 1099-1115 (**ELSEVIER**)
48. Manjunatha S.S and **Girisha S.T** (2020) Enumeration and Evaluation of Freshwater Microalgae for Biomass and Lipid Production, Indian Journal of Natural Sciences,10 (59), 18629 - 641 (ISSN: 0976 – 0997 corresponding author)
49. Sunil Kodishetty Ramaiah, **Girisha Shringala Thimappa**, Lokesh Kyathasandra Nataraj and Proteek Dasgupta (2020) Optimization of oxalic acid pre-treatment and enzymatic saccharification in *Typha latifolia* for production of reducing sugar. Journal of Genetic Engineering and Biotechnology, 18:28, 1-9 **Springer**
50. G. Anushree, P. Aravind, D. Vinod, N. Hemalatha, **S. T. Girisha** & K. S. Devaraju (2020) Peroxynitrite-induced conformational changes in DNA that lead to cell death: UV, CD spectral, molecular dynamics simulation and FACS analysis. Nucleosides, Nucleotides & Nucleic Acids, <https://doi.org/10.1080/15257770.2020.1809673> (**Taylor and Francis**)

51. Manjunatha SS, **Girisha ST** (2020) Characterization of microalgal biomass through fourier transforms infrared (FT-IR) spectroscopy, International Journal of Botany Studies 6 (1) 57-60 ISSN: 2455-541X

52. **Shringala Thimappa Girisha** (2021) Karyotypic studies in *Brachiaria mutica* *Forssk. (stapf)* "International Journal of Botany Studies, 6 (6) 1217-1219 ISSN: 2455-541X

53. Sunil Kodishetty Ramaiah, **Sirangala Thimmappa Girisha** and Thiyagarajan Sivaprakasam (2020) Alcohol Dehydrogenase 1 Gene Expression Study in *Saccharomyces cerevisiae* for Bioethanol Production, Indian Journal of Natural Sciences, 10 (59), ISSN: 0976 – 0997

Review article:

1. Sarvamangala H, KA Natarajan and **ST Girisha** (2012) Biobeneficiation of iron ores. International j of mining engineering and mineral processing 1(2):21-30 (ISSN 2166- 997X, Corresponding Author)

2. M. Uzma, Vinay B. Raghavendra and **ST Girisha** (2018) Biogenesis of gold nanoparticles, role of fungal endophytes and evaluation of anticancer activity. European Journal of Biomedical and Pharmaceutical Sciences, 5(5): 319-329 (ISSN - 2349 – 887, Corresponding Author)

Book chapters:

1. Concepts of Tropical Agriculture, Edited by Arvind Kumar: Variation in the morphological characters of *Brachiaria mutica* due to urban sewage water irrigations: **Girisha ST** and S Umesha

2. Green technologies for sustainable agriculture, edited by Arvind Kumar and Pushpalata Dubey: Phyllosphere studies in sewage water irrigated fodder grass *Brachiaria mutica*: **Girisha ST** and S Umesha

3. Clean energy technologies: Biodiesel production from oleaginous microorganisms, **ST Girisha**. Dept. of Environmental science, Bangalore university

4. **Science and technology for management of emerging environmental issues:** Production of bioethanol from agriculture waste by using cellulose degrading bacteria. **Sriragala Thimappa Girisha**, Sunil Kodishetty Ramaiah and Manjunatha Sunnaghatta Siddaramaiah (2017) 275- 280.

List of articles in popular magazines of news paper:

1. Umesha S, P Hariprasad, SA Deepak, **ST Girisha** and Paul Syltie (2007) Vitazyme treatment improves seed quality parameters of cotton, rice and tomato. Asian J. Micro. Biotech and Env. Sci. 19-40
2. **Girisha ST** (2005) Thambaku Balege Crate Balake (in Kannada), Kannada Prabha. Oct. 10, 2005

Conferences/Seminars (participated/presented)

National:

1. VII All India Conference on cytology and genetics and symposium on molecular biology and biotechnology, Gulbarga University, Gulbarga, Oct – 1998 (**National - Participated**)
2. 30th Annual conference of association of clinical biochemists of India. Best Paper award, Bangalore university, Jan- 2004 (**National - Presented a paper**)
3. National seminar on emerging trends in applied botany, seed science and technology, Dept. of Applied Botany and Biotechnology, Mysore University, Mysore, Nov- 2004 (**National - Participated**)
4. National seminar on environmental challenges and management, Dept of Envi Sci, Bharatiyar University, Coimbatore, Mar -2007 (**National - Presented a paper**)
5. A regional seminar on Intellectual property and innovation management in knowledge era, Dept of biotechnology, S.J.C. Engineering College, Mysore, Mar – 2007 (**State - Participated**)
6. National symposium on innovations in Biotechnology: Entrepreneurial opportunities and IPR, Department of Biotechnology, Bangalore University and Sir MVIT, Bangalore, Oct - 2007 (**National – Participated**)
7. National seminar on molecular plant pathology and Biotechnology for sustainable crop production, Department of Applied Botany and Biotechnology, Mysore University, Mysore, Nov-2007 (**National - Presented a paper**)
8. National conference on medicinal and aromatic plants: Department of PG studies and research in Botany, Gulbarga University, Gulbarga, Dec-2007(**National - Presented a paper**)
9. National symposium on role of life science in climate change and global warming, Dept of Biotechnology, Visveswarapura college of science, Bangalore, Feb -2009 (**National - Presented a paper**)
10. National conference on current trends in environmental sciences and sustainable development, DOS in Environmental Sciences, University of Mysore, Feb -2009 (**National – Participated**)
11. Indian science congress association, Kerala University, Kerala, Jan -2010 (**National – Participated**)

12. One day seminar on 6th pay commission and choice-based credit system, UGC academic staff college, Manasagangothri, Mysore University, Mysore, Feb -2010 (**State - Participated**)
13. XXXI Annual conference of institute of Indian geographers, post graduate Department of geography, JB campus, Bangalore university, Bangalore, Feb – 2010 (**National - Presented a paper**)
14. Conservation and sustainable development of ecosystems in Western Ghats, National Seminar, Kuvempu University, Mar - 2010 (**National - Presented a paper**)
15. Microbial energy: One day symposium, Department of Microbiology, University of Mysore, Mysore, Oct -2010 (**National – Participated**)
16. One day national seminar on law on disaster management in India: Issues and perspectives by Bangalore University, Jan -2011 (**National – Participated**)
17. Two-day national seminar on present scenario of microbial life – Organized by Department of Microbiology, Kuvempu university, Shankaraghatta, March -2011 (**National – Participated**)
18. Seminar and work shop on alternatives to use of animals in life science education - Visveswarapura college of science, KR Road, Bangalore, April -2011 (**National - Presented a paper**)
19. Conference on recent trends in genomics and proteomics- Indian academy and Bangalore University, May -2011 (**National – Participated**)
20. National conference on frontiers in bio science - Dept of Biosciences, CMR Institute of Management Studies, Bangalore, Feb- 2012 (**National – Participated**)
21. Two-day national seminar on role of microbes: past, present and future – organized by Department of PG studies and research in Microbiology, Kuvempu university, Shankaraghatta, March -2012 (**National – Participated**)
22. One day national workshop on intellectual property rights, University law college and Karnataka state council for science and technology, Bangalore University, Bangalore, Apr -2012 (**National – Participated**)
23. Two-day national seminar on the role of police in protection of human rights in India: issues and perspectives, University law college and bureau of police research and development, Bangalore University, Bangalore, Sep-2012(**National – Participated**)
24. Molecular diagnosis – Techniques and application – Acharya Bangalore B –school, Sep – 2012 (**State – Participated**)
25. Indian academy of neuroscience: 30th annual conference, Amritsar, Punjab, Oct -2012 (**National – Participated**)
26. National conference on emerging trends in ayurveda and herbal drug technology- DBT and NRHM, Teresian College, Mysore, Nov-2012 (**National - Presented a paper**)

27. Karnataka science and technology academy: 5th annual conference, Dayanand Sagar Institute, Bangalore, Dec - 2012 (**National – Participated**)
28. Karnataka state biofuel board and VTU Belgaum, Research opportunities in biofuel, Feb -2013 (**State – Participated**)
29. National conference on biomedical spheres of life and life science, Dept of Biosciences, CMR Institute of Management Studies, Bangalore, March – 2013 (**National – Participated**)
30. National seminar on advanced molecular techniques in Biosciences, PES Institutes, Bangalore, June -2013 (**National – Participated**)
31. National seminar titled world heritage status to Western Ghats, MES College Bangalore, Sep - 2013 (**National – Participated**)
32. UGC sponsored National conference on Recent trends in chemical biology: An overview, Teresian College and KSOU, Mysore, Oct -2013 (**National - Presented a paper**)
33. Science Academies Lecture Workshop on Enkindle intelligentsia, CMR Institute of management studies, Jan – 2014 (**National – Participated**)
34. Two-day national conference on Waste management towards sustainable developments in Indian context, MLA College for Women, Bangalore, Jan – 2014 (**National – Participated**)
35. DST sponsored 2nd national conference on emerging trends and new challenges in Biotechnology- A multidisciplinary approach – MGR college, Hosur, TN, Feb -2014 (**National - Presented a paper**)
36. World environment day and parisara mela- theme clean energy technologies, Dept of Environment Science, BUB and BBMP – June - 2014 (**State - Participated**)
37. National conference on empowering mankind with microbial technologies (AMI), Tamil Nadu agricultural university, Coimbatore, Nov - 2014 (**National - Presented a paper**)
38. Symposium on Health life style and human welfare organized by UGC and Department of Zoology, Bangalore University, Nov -2014 (**National - Participated**)
39. 83rd Annual meeting of Society of Biological Chemist (India), Bhubaneswar, Odisha, Dec - 2015 (**National - Participated**)
40. 7th Karnataka science and Technology academy National Conference, Oxford college of science, Feb - 2015 (**National - Presented a paper**)
41. National conference on secondary metabolites of endophytic fungi/ medicinal plants and their anticancer properties, Bangalore University, March-2015 (**National - Participated**)
42. Bangalore University golden jubilee lecture series – Biology in the genomics era, April - 2015 (**State - Participated**)

43. National conference on recent trends in novel carbon materials, Field Marshal KM Cariappa College, Madikeri, Mangalore University, Sep -2015 (**Oral presentation - II prize**)
44. National conference on new approaches and concepts in Microbial Biotechnology, Maharani's Science college, Bangalore, Sep -2015 (**Oral presentation - II prize and Session the Chairman**)
45. Dept of Environment Science BUB – Word environment day and parisara mela, June -2016 (**State - Participated**)
46. National seminar on Research made easy: Tips, tools and technologies, Bangalore university library, Jan - 2017 (**National - Participated**)
47. Three-day national seminar on entrepreneurial opportunities in biotechnology Sir MVIT, Bangalore, March - 2017 (**National - Presented a paper**)
48. National conference on Bioscience, Dept of Botany, Kuvempu University, March 2017 (**National - Presented a paper**)
49. National workshop on molecular biology, Dept of Botany, Bangalore University, April 2017(**National - Presented a paper**)
50. National symposium on trends in Microbiology, Department of studies in Microbiology, University of Mysore, May - 2017(**National - Presented a paper**)
51. National Conference on Biodiversity and Bio-prospecting for Sustainable Development, IOE, University of Mysore, Feb – 2018 (**National - Participated**)
52. Karnataka renewable energy development Ltd, Mysore, Feb – 2018 (**National – Participated as Judge**)
53. National conference on current microbial challenges in the environment, Kuvempu University, March – 2018 (**National - Presented a paper**)
54. National conference on emerging trend in production of biofuel and impact on global economy, Christ University, Bangalore, July -2018 (**National – Key note speaker**)
55. National Conference on Phytochemicals & Microbial Bioactive Compounds - Role in Agriculture & Human welfare, 3rd & 4th October 2019, Organized by Department of Microbiology & Biotechnology, Bangalore University, Bengaluru-560056

International:

1. International conference on water and health – JSS research foundation, SJ College of engineering, Mysore, Jan - 2005 (**International -Presented a paper**)
2. International conference on Biotechnology - Vellor institute of Technology, Feb-2008 (**International -Presented a paper**)

3. Society of biological chemists, 77th annual meeting – Chennai, Dec -2008 (**International -Presented a paper**)
4. 1st international society Biotechnology conference (ISBT) - Gangtok, Dec -2008 (**International - Presented a paper**)
5. 3rd international conference on medicinal plants and herbal products – University of Colombo, Sri Lanka, Dec -2011(**International -Presented a paper**)
6. 1st international conference on urban issues and challenges, Union of geographic information technologists and UGC-SAP-DRS-I - Bangalore University, Mar- 2013 (**International -Participated**)
7. International conference on Nanobio, Biomimetic material and its applications - Hindusthan Educational Institutions, Department of Biosciences, Coimbatore, TN, Feb – 2014 (**International - Presented a paper**)
8. International conference on CSOACMPANPR - Uka Tarsadia University at Bardoli, Surath, Gujath, Sep - 2014 (**International -Presented a paper**)
9. International conference on Nanoscience, Nanotechnology and Advanced materials GITAM University, Vishakhapatnam, Dec - 2015 (**International -Presented a paper**)
10. International conference on green technologies for sustainable ecosystems (ICGTSE-16) and Trade Show - St. Joseph's College (Autonomous), Bengaluru, Feb -2016 (**International -Presented a paper**)
11. International Conference on Nano technology - VTU PG Campus, Mudena halli, Chikabalapur, April -2016 (**International -Presented a paper**)
12. International Conference on Science and Technology: Future Challenges and Solutions (STFCS - 2016), Mysore University, August - 2016 (**International -Presented a paper**)
13. Fourth international conference- Science and Scientist, Bangalore university, August - 2016 (**International -Presented a paper**)
14. One day international conference on science and technology for management of emerging environmental issues, Dept of Environmental science, Bangalore university, Jan – 2017 (**International - Presented a paper**)
15. International conference on Biotechnology and Biodiversity - Malaysia University Kota Kinabalu, September - 2017 (**International -Presented a paper**)
16. International Conference on "Advances in Disease Management for Human Welfare - Gulbarga University Kalaburagi. November 2017 (**International -Presented a paper**)
17. International conference on microbial technology for better tomorrow, DY Patil College, Puna Feb -2018 (**International -Presented a paper**)

18. International conference on nano material and their application, University of Mysore March 2018 **(International -Presented a paper)**
19. International Conference on Multidisciplinary Approach of Science: Nanotechnology - a Boon for Mankind, Garden City University, Bengaluru, September, 2018 **(International -Presented a paper)**
20. International Conference on Recent Trends in Zoology, Biodiversity, Genetics & Environmental Sciences, Dept. Zoology, Bangalore University, Bangalore, Karnataka, December, 2018 **(International -Presented a paper)**
21. International conference on Nano Engineering Science and Research Advances Department of Nanotechnology, Visvesvaraya Technological University, Center for Postgraduate Studies, Bengaluru Region, Muddenahalli, Chikkaballapur, September, 2019, **(International -Presented a paper)**
22. International Conference on Biotechnological Advances in Medicinal Plants and Natural Products and Exhibition on Natural Products and Medicinal Plants Research, organized by Department of Life Sciences, School of Sciences. Garden City University, Bangalore, September 2019 **(International -Presented a paper)**
23. 1st International Conference on Life, Chemical, and Health Sciences (ICLCHS) International Conference Organized by Department of Life Sciences Ramaiah College of Arts, Science & Commerce Karnataka Science and Technology Academy (KSTA)Department of IT, BT, and Science & Technology, Government of Karnataka, October, 2019 **(International -Presented a paper)**
24. International Conference on Materials for Environment, Sustainable Society and Global Empowerment (MESSAGE) Department of Nanotechnology, Visvesvaraya Technological University, Center for Postgraduate Studies, Bengaluru Region, Muddenahalli, Chikkaballapur, December, 2019, **(International -Presented a paper)**
25. International conference on advances in materials, ceramics & engineering sciences (AMCES-2020), Dayananda Sagar College of Engineering, Bangalore, January, 2020, **(International -Presented a paper)**
26. 3rd International Web Conference on Climate Change Impacts on Environment and Biodiversity Dept. of Environmental Science Bangalore University, Bengaluru, June, 2020 **(International -Presented a paper)**
27. Sinsil International Pvt Ltd webinar on Challenges & Advancements in the field Spectro radiometry held on July 2020, **Participated**
28. Micro biome: Listen to your gut, JSS University, July 2020, **Participated**

29. Online webinar on CE Basics: Sanger sequencing and Fragmental analysis conducted by Bharathiar University and Thermo Fisher, September 2020, **Participated**
30. International Webinar on Current perspectives in Microbiology Organized by Department of Studies in Microbiology In association with Vijnana Bhavana, University of Mysore and Association of Microbiologists of India, Mysore Chapter, November, 2020, **Participated**
31. International Conference on promoting Environmental Technologies for Waste Management and Sustainable Development. National environmental science academy (NESA), Bhubaneswar, Dec – 2021 (**International – Key note**)
32. International Conference on Sustainable Utilization of Bio resources, Dept of Botany, Tiruvananthapuram, Kerala, Jan – 2022 (**International -Presented a paper**)
33. International conference on & environment, water, agriculture, Sustainability and health (EWASH-2021): united together in the battle against pandemic, University of Delhi, Delhi, Jan – 2022 (**International -Presented a paper**)
34. AMI 62nd Annual International Conference Microbes and Society: Current trend and future prospects (MSCTFP- 2022)" held at University of Mysore, from 21st to 23rd September 2022 (**International -Presented a paper**)
35. International Conference on Recent Advancements in Chemistry, Field Marshal K.M. Cariappa College, Department of Chemistry, 23 November 2022 (**International -Presented a paper**)

Conference session Chairman:

- 1.1st International society Biotechnology conference (ISBT), Gangtok, Dec- 2008
2. National conference on emerging trends in ayurveda and herbal drug technology- DBT and NRHM, Teresian College, Mysore, Nov -2012
3. International conference on CSOACMPANPR - Uka Tarsadia University at Bardoli, Surath, Gujrath, Sep – 2014
4. National conference on current microbial challenges in the environment, Kuvempu University, March – 2018
5. National conference on emerging trend in production of biofuel and impact on global economy, Christ University, Bangalore, July -2018
6. National Conference on Phytochemicals & Microbial Bioactive Compounds - Role in Agriculture & Human welfare, 3rd & 4th October 2019, Organized by Department of Microbiology & Biotechnology, Bangalore University, Bengaluru-560056

7. AMI 62nd Annual International Conference Microbes and Society: Current trend and future prospects (MSCTFP- 2022)" held at University of Mysore, from 21st to 23rd September 2022.

Conference/ Seminar organized:

1. National Environment Awareness Campaign -Workshop in Association with Bangalore University and Karnataka Rajya Vijnana Parishat Mar-2010 (Organizing Secretary)
2. National conference on secondary metabolites of endophytic fungi/ medicinal plants and their anticancer properties, Bangalore University, March-2015 (**Organizing committee**)
3. Seminar series – Discover your career passion organized by Bangalore university and PIMS, July - 2016 (**Organizing committee**)
4. National Conference on Phytochemicals & Microbial Bioactive Compounds - Role in Agriculture & Human welfare, 3rd & 4th October 2019, Organized by Department of Microbiology & Biotechnology, Bangalore University, Bengaluru-560056
5. National Conference on current trend and future prospective in microbial biotechnology 28th & 27th April 2022, Organized by Department of Microbiology & Biotechnology, Bangalore University, Bengaluru-560056 (**Organizing Secretary**)