

FACULTY PROFILE

Dr. SHARATH R

Professor

Department of Studies in Food Technology

Qualification : M.Sc. Ph.D.

Areas of Specialization : Nutraceuticals, Nano-Biotechnology.
Plant Biotechnology, Proteomics

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Vision

A leader in quality education and innovative research, aiming to produce competent, ethical, and skilled food technologists who contribute to food security, sustainability, and public health through new product development, improved processing, and robust safety practices. Their goals include fostering creativity, promoting lifelong learning, collaborating with industry, and driving impactful applied research to address societal challenges in the food sector.

Educational Qualifications

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	PhD.,	Plant Biotechnology	Kuvempu University	2009
4	PG	Biotechnology	Kuvempu University	2003
5	UG	Botany, Biochemistry Microbiology	Kuvempu University	2001

Professional Details (Academic/Research Experience)

Sl. No.	Designation	Institution/University	UG/PG	From	To
1	Professor	Davangere University	PG	21-08-2022	Till to date
2	Associate Professor	Davangere University	PG	21-08-2019	20-08-2022
3	Assistant Professor	M.S. Ramaiah Institute of Technology	UG/PG	14-08-2009	20-08-2019

Areas of Research Interest:

1.	Food processing and preservation Technology
2.	Nano-Biotechnology
3.	Proteomics
4.	Plant Biotechnology

Academic/Administrative responsibilities:

1.	Chairman, Department of studies in Food Technology, Davangere University from 21-08-23 to 21-08-2025
2.	BoE Chairman, Department of Studies in Food Technology since from December 2020 to December 2021.
3.	Treasurer for Association of Food Scientists & Technologists (India)AFST(I), Davangere University Local Chapter from January 2021 to till to date
4.	MoU committee Member at Davangere University
5.	Covid-19 Nodal Officer at Davangere University
6.	Fit India Campaign Nodal Officer at Davangere University
7.	Local Inspection Committee (LIC) member at Davangere University
8.	BoS Member at Department of Food Technology, Davangere University Since from August 2019 to till to date
9.	BoS Member at M.S. Ramaiah Institute of Technology, At Department of Biotechnology Since from 2011 – August 2019
10.	BoS Member at Kuvempu University for UG At Department of Biotechnology in 2015-17
11.	BoE Member at M.S. Ramaiah Institute of Technology, At Department of Biotechnology Since from 2011 – August 2019
12.	BoE Member at New Horizon College of Engineering, At Department of Biotechnology Since from 2018-till to date
13.	Reviewer for the Journal Egyptian Journal of Biological pest control
14.	Reviewer for the Journal of Molecular Dynamics and Simulations
15.	Reviewer for the Journal, Journal of Molecular Structure and Dynamics.
16.	Reviewer for the Journal, Journal of Clinical Science and Translational Medicine
17.	Advisory Board member for Journal, Journal of Applied Biology and Biotechnology. Since from 2014 -2019
18.	Advisory Board member for Journal, Journal of Applied Pharmaceutical Science. Since from 2014 to 2018

19.	Worked as NAAC Co-ordinator at M.S. Ramaiah Institute of Technology
20.	Worked as NBA Co-ordinator at M.S. Ramaiah Institute of Technology
21.	Coordinator for “Srigen” Society of Biotechnology- from 2009 to 2012.
22.	Member of Department of Extracurricular Activity at M.S. Ramaiah Institute of Technology
23.	Coordinator for Valuation centre at M.S. Ramaiah Institute of Technology.
24.	Coordinator for Workshop conducted in associated with MERCK Millipore on “Gene expression and protein purification” at Department of Biotechnology, M.S. Ramaiah Institute of Technology. Bengaluru.
25.	Co-Ordinator for Technical Fest 2016 conducted at Department of Biotechnology, M.S. Ramaiah Institute of Technology. Bengaluru.

Awards and Recognition

1.	Received Best Research Award For the contribution and honorable Achievement in Innovative Research Given by “Science Father” International Research Awards on new Science Inventions NESIN 2020 Award.
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Patent

1.	Name of Inventor : Dr. Nagaraju Kottam, Dr. Sampath Chinnam, Smrithi Sailaja Prasanna kumaran Nair, Dr. Ahmad Salawi, Dr. Suvardhan Kanchi, Dr. A. Mushira Banu, Dr. Muktha H, Dr. R. Sharath. Title of the invention : Novel carbon dots derived Beta vulgaris as potential anti-cancer and antioxidant agents Application No.202241030127 A Date of filing of Application :26/05/2022 Publication Date: 03/06/2022
2.	Name of Inventor : Dr. Samrat K, Dr. Chandrababha MN, Dr. Harikrishna R, , Dr. Sharath R, Dr. Harish BG Title of the invention : A Formulation of Nano-Sulfur as Potential drug for treating Human lung and epidermoid carcinoma. Application No.202241052071 A Date of filing of Application :13/09/2022 Publication Date: 16/09/2022

Research Publications:

a) International Journals

1.	Veena, R., Sharath, R.* , Ramesh, B. N., M.B. Darshan., V. Ramesh and M. Manjunatha. 2026. Enzymatic Hydrolysis of Sunflower Protein Isolate Using Alcalase: Optimization by Response Surface Methodology. Journal of Advances in Biology and Biotechnology.
2.	Veena, R., Sharath, R.* , Ramesh, B. N., Manjunatha, M and Ramesh, V. 2026. Extraction and Evaluation of Functional and Colour Properties of Protein Isolate from Sunflower Seed De-

	oiled Cake. European Journal of Nutrition & Food Safety. Volume 18, Issue 1, Page 34-47, 2026; Article no.EJNFS.150110 ISSN: 2347-5641. DOI: https://doi.org/10.9734/ejnf/2026/v18i11931
3.	C Inchara Moodbagil, P Meghana, Jain R Sandeep Kumar, N Prashanth, R Sharath , N.D. Satyanarayana, B Manjunatha, H Raja Naika, M.S. Savinaya, Riaz Mahmood, H.M. Kumaraswamy. 2026. <i>In vitro</i> hepatoprotective effects of rutin on HepG2 cells, isolated from an unexplored species: <i>Miliusa tomentosa</i> (Roxb.) J. Sinclair. Next Research. NEXRES 4(2026)101236.
4.	Pooja S. Rajaput, R. Hari Krishna, K. Pradeepa, P. Meghana, R. Sandeep Kumar Jain, N. Prashanth, B.S. Ravindranath, R. Sharath , N.D. Satyanarayan, H. Raja Naika, H.M. Kumaraswamy. 2025. Novel dual responsive embelin fabricated ZnO nanomaterials amplify DNA damage and induce apoptosis via pERK1/2/p53 pathway in pancreatic ductal adenocarcinoma. Biomaterials Advances Available online 23 August 2025, 214470
5.	Sharath Rajshekarappa , Preetham Jinadatta Sundari Ponnusamy , Kiran Sundera , Sujan Ganapathy Pasura Subbaiah , Mruthunjaya Kenganora. 2025. Ethanolic extract of stems of Gnetum ula Brongn ameliorates carbon tetrachloride induced liver toxicity in wistar rats. Journal of Applied Pharmaceutical Science Vol. 15(08), pp 199-205, August, 2025.
6.	Sandeep Kumar Jain, P. Meghana, N. Prashanth, J.U. Santhosh Kumar, N.D. Satyanarayan, R. Sharath , H. Raja Naika, H.M. Kumaraswamy. Phenolic fingerprint, proximate analysis and nutraceutical effects of Garcinia talbotii, an under-utilized functional food endemic to Western Ghats, Food Bioscience 54 (2023)102894
7.	Meghana P, Sandeep Kumar Jain R, Prashanth N, Santhosh Kumar J U, Sharath R, Satyanarayan N D, Rajesh R, Inchara Moodbagil, Kumarswamy H M. (2023) Artabotrys odoratissimus Bark Extract Restores Ethanol Induced Redox Imbalance and Toxicity in Hepatocytes and <i>In Vivo</i> Model. Applied Biochemistry and Biotechnology. 195(5):3366-3383. doi: 10.1007/s12010-022-04275.
8.	C. Inchara Moodbagil, Riaz Mahmood, H.M. Kumaraswamy, Vivek Chandramohan, Manjunath Dammali, R. Sharath, P. Meghana, R. Sandeep Kumar Jain, N. Prashanth & J.R. Samartha. (2023) Identification of potential inhibitors of ATM kinase: pharmacoinformatics and molecular dynamics simulation approach . Molecular Simulation, Published online
9.	Sophiya Pundalik., Krishna Ram Hanumappa, Aladahalli S Giresha, Deepadarshan Urs, Sharath Rajashekarappa, Narayanappa Muniyappa, Manjunatha Jamballi G, Devaraju Kuaramkote Shivanna, Rajkumar S Meti, Sathisha Anekere Dasappa Setty, Prabhakar Bettadathunga Thippegowda, Dharmappa Katteppura Krishnappa. Corosolic Acid Inhibits Secretory Phospholipase A2IIa as an Anti-Inflammatory Function and Exhibits Anti-Tumor Activity in Ehrlich Ascites Carcinoma Bearing Mice. Journal of Inflammation Research. 2022;15 6905–6921
10.	K. Samrat, M. N. Chandrababha, R. Hari Krishna, R. Sharath & Bhargavi Vadappi. Synthesis, characterisation and in vivo wound healing activity of chemogenic sulphur Nanoparticles. (2022)- Materials Technology- Online Published
11.	C. Inchara Moodbagil, Riaz Mahmood, R. Sandeep Kumar Jain, P. Meghana, N. Prashanth, H. M. Kumaraswamy, R. Sharath. 2022. Docking Based Screening of Potent Flavonoids as CHK2 Inhibitors from Genus <i>Miliusa</i> . Proceedings of National Academic Science., India, Sect. B Biol. Science- Published Online.

12.	J. Perraulta Lavanya, G. Gowthamraj, V. Hemalatha, S.O. Sadashiv, R. Sharath , Narayanasamy Sangeetha. (2022) Physicochemical, techno-functional, and structural properties of gluten-free crackers developed from sorghum (<i>Sorghum bicolor</i> (L.)) varieties. International Journal of Food Science and Technology, Issue 1: Volume 58 PP 315-322 https://doi.org/10.1111/ijfs.15768
13.	H. M. Kumaraswamy, V. Krishna, R. Sharath , N. D. Satyanarayan, P. Meghana, R. Sandeep Kumar Jain, N. Prashanth, H. Raja Naika. (2022) Potential role of embelin in the prevention of Freund's adjuvant induced inflammation and ROS. 3 Biotech (2022) 12:10. http://doi.org/10.1007/s13205-021-03071-5
14.	Samrat Krishnappa, Chandrababha M. Naganna, Hari Krishna Rajan, Sharath Rajashekarappa , and Harish Basavanthappa Gowdru. (2021) Cytotoxic and Apoptotic Effects of Chemogenic and Biogenic Nano sulfur on Human Carcinoma Cells: A Comparative Study. ACS Omega. : https://doi.org/10.1021/acsomega.1c04047
15.	S P Smrithi, Nagaraju Kottam, H Muktha, Apurva M Mahule, Keertana Chamarti, V Vismaya and R Sharath (2022). Carbon dots derived from Beta vulgaris: evaluation of its potential as antioxidant and anticancer agent. Nanotechnology 33 (2022) 045403 (12pp). https://doi.org/10.1088/1361-6528/ac30f1
16.	Samrat, K; Hari Krishna, Rajan; Chandrababha, M N ; Sharath, R ; Harish, B.G.; Preetham. 2021. Biogenic synthesis of Nano-sulphur using Punica granatum fruits peel extract with enhanced antimicrobial activities for accelerating wound healing. Nano Future-Accepted
17.	Gangadharappa Bhavya, Dammalli Manjunath and Rajashekarappa Sharath. 2020 β -Lactams and β -Lactamase Inhibitors: Unlocking their potential to address drug resistance. Research Journal of Biotechnology, Vol. 16 (8): 151:158.
18.	J. Preetham, S. Kiran, R. Sharath, P. Sivakami Sundari, PS Sujana Ganapathy, Kumaraswamy H M. 2021. Development of pharmacognostic parameters for the leaf of <i>Bridelia scandens</i> (Roxb.) Willd. The Journal of Phytopharmacology, 2021;10(4).
19.	H. Muktha, R. Sharath , Nagaraju Kottam, H.M. Kumaraswamy, S. Srinath. 2021. Carbon dots- A study of its cytotoxic activity against HepG2 and MCF-7 cell lines. Materials Today Proceedings. Article in Press- https://doi.org/10.1016/j.matpr.2021.04.515
20.	Bhavya Somalapura Gangadharappa, Sharath Rajashekarappa , Gajanan Sathe. 2020. Proteomic analysis of <i>Serratia marcescens</i> (ATCC13880). The PRIDE database and The ProteomeXchange consortium in 2020. PMID: 32363156 PMCID: PMC7186543. https://www.ebi.ac.uk/pride/archive/projects/PXD011776 . Project PXD011776
21.	H. Muktha, R. Sharath , Nagaraju Kottam, S. P. Smrithi, K. Samrat & P. Ankitha. 2020. Green Synthesis of Carbon Dots and Evaluation of Its Pharmacological Activities. BioNanoScience. Published online. DOI 10.1007/s12668-020-00741-1
22.	Samrat, K; Sharath, R ; Chandrababha, M N ; Hari Krishna, Rajan; Preetham R; Harish, B G. 2020. Comparative Study of Cytotoxic Activity of Nano Silver Against A549 and L929 Cell Lines. Asian Journal of Chemistry; Vol. 32, No. 2 (2020), 374-380. https://doi.org/10.14233/ajchem.2020.22429
23.	Bhavya Somalapura Gangadharappa, Sharath Rajashekarappa , Gajanan Sathe. 2020. Proteomic profiling of <i>Serratia marcescens</i> by High-Resolution Mass Spectroscopy. Bioimpacts. 2020;9(6): 281-286. doi: 10.34172/bi.2020.15
24.	Samrat, K; Sharath, R ; Chandrababha, M N ; Hari Krishna, Rajan; L Shastri, Sudesh; Harish, B G. 2019. Investigation of chemogenic and biogenic derived nano ZnO activity on excision wound in rat model: a comparative study. Materials Research Express-

	https://doi.org/10.1088/2053-1591/ab55f5
25.	Bhavya Somalapura Gangadharappa, Sharath Rajashekarappa , Prasanna D. Revanasiddappa, Vivek Chandramohan, Meenakshisundaram Balasubramaniam & Teja Priya Vardhineni. 2019. Structural insights of metallo-beta-lactamase revealed an effective way of inhibition of enzyme by natural inhibitors. Journal of Biomolecular Structure and Dynamics. Published online. https://doi.org/10.1080/07391102.2019.1667265
26.	Preetham Jinadatta, Sharath Rajshekarappa , Kiran Sundera Raja Rao, Sujana Ganapathy Pasura Subbaiah.S, Sudesh Shastri. 2019. <i>In silico</i> , <i>In vitro</i> : Antioxidant and Anti-hepatotoxicity of Gnetol from <i>Gnetum ula</i> . Brongn. Bioimpacts, 9(4): 239-249. http://doi:10.15171/bi.2019.29
27.	H. Muktha, R. Sharath , Nagaraju Kottam, S. Srinath and Y Randhir. 2019. Evaluation of antibacterial and <i>In Vivo</i> Wound healing activity of carbon dot nanoparticles. Nano Scale Reports, 11-23. DOI: 10.26524/nr1932.
28.	Bincy Rose Vergis, Nagaraju Kottam, Samrat Krishnappa, Sharath Rajashekarappa , Hari Krishna Rajan, Bhanghi Mutt Nagabhushana and Muktha Harsha. 2019. Evaluation of Antimicrobial Activity and Cytotoxic Effect on MCF-7 Cell Line of Combustion Derived CuFe ₂ O ₄ Nanomaterial Using Aloe-Vera Extract. Current Nanomaterials (3), 153-159. DOI: 10.2174/2405461503666181116121843
29.	Jinadatta Preetham, Sundera Raja Rao Kiran, Rajshekarappa Sharath , Pasura Subbaiah Sujana Ganapathy (2018). Biochemical and antioxidant influences of <i>Bridelia scandens</i> (Roxb.) Willd. on carbon tetrachloride - challenged rats. Australian Journal of Pharmaceutical Biology. Volume 1; Issue 1; 7:14
30.	Bincy Rose Vergis, · R. Hari Krishna, Nagaraju Kottam, B. M. Nagabhushana, R. Sharath · B. Darukaprasad (2018). Removal of malachite green from aqueous solution by magnetic CuFe ₂ O ₄ nano-adsorbent synthesized by one pot solution combustion method Journal of Nanostructure in Chemistry. 8:1–12.
31.	Preetham Jinadatta, Kiran Sundera Raja Rao, Sharath Rajshekarappa , Sujana Ganapathy Pasura Subbaiah, Mruthunjaya Kenganora. 2017. <i>In vitro</i> Antioxidant and Hepatoprotective Activity of <i>Bridelia scandens</i> (Roxb.)Willd. <i>Pharmacognosy Journal</i> ,2017,9,6s,s117-s121.
32.	Bhavya Somalapura Gangadharappa, Manjunath Dammalli, Sharath Rajashekarappa , Krishna Murthy Thirupathihalli Pandurangappa and Gowrishankar Bychapur Siddaiah. 2017. Reverse Micelles As A Bioseparation Tool For Enzymes. Journal of Proteins and Proteomics. 8(2), 2017, pp. 105-120
33.	Preetham. J, Kiran. S, Sharath.R , Sujana Ganapathy P.S., Sushma S.Murthy. 2016. <i>Bridelia scandens</i> : review on traditional uses and Pharmacological aspects. International Journal of Research in Engineering and Technology. Vol(5). Special Issue(17): 27-30. eISSN: 2319-1163,
34.	Samrat, Nikhil N S , S Karthick Raja Namasivamyamb, Sharath R , Chandraprabha M N , Harish B G, Muktha H, Rakesh G Kashyap. (2016) Evaluation of improved antifungal activity of fluconazole – silver nanoconjugate against pathogenic fungi. Materials Today Proceedings (3):1958-1967(Elsevier). ISSN:2214-7853.
35.	Sushma S.Murthy, Sharath R , Sujana Ganapathy P.S , Sivakamisundari P., Preetham J. (2015). Pharmacognostic and Phytochemical Evaluation of <i>Curcuma angustifolia</i> roxb. (Rhizome) Indigenous Ethno-Medicinal Plant Used by Tribal Soliga Community of Biligirirangana Hills. International Journal of Pharmacognosy and Phytochemical Research; 7(4); 820-824. ISSN: 0975-4873

36.	Aishwarya K.S, Sneha.S, Sharath.R , Vasundhara.M. (2015). Screening of Cytotoxic and In vitro Antioxidant Activity of Vernonia amygdalina and Coumarin. International Journal of Applied Research and Studies. Volume IV, Issue 7: 1-11. ISSN: 2278-9480
37.	Sneha.S, Sharath.R , Aishwarya K.S, Samrat K, Vasundhara.M, Radhika.B, Tara B.S. (2015). Screening of the Anti-oxidant, Antibacterial and Cytotoxic activities of the Methanolic extracts of Elaeocarpus ganitrus and Elaeocarpus serratus. International Research Journal of Innovative Engineering Volume1, Issue 7, 1-11.
38.	Preetham, J., Kiran, S., Sharath, R. , Sivakami Sundari., Sujan Ganapathy, PS., Sushma S Murthy. (2015). Pharmacognostic and preliminary phytochemical studies of Gnetum ula Brongn. International Research Journal of Pharmacy. 6(6), 377-381. ISSN: 2230-8407
39.	Preetham J., Sharath R. , Prasanna K.P., Sujan Ganapathy P.S. and Kiran S. (2014). Evaluation of <i>In vitro</i> Antioxidant activity of Piperlongumine isolated from <i>Piper longum</i> Linn. Research Journal of Pharmaceutical, Biological and Chemical Sciences. Vol 5(6) 174-179.
40.	Sharath, R. , Harish, B.G., Channarayappa., Samrat., Preetham, J., Muktha., Sushma, S, Murthy (2014). Evaluation of Antioxidant activity of Coumarin isolated from Eupatorium trplinerve. Research and Reviews: A Journal of Pharmacognosy. Vol(1), 1: 18-22.
41.	Khadeer B. M. Ahamed., Harish Basavanthappa Gowdru., Sharath Rajashekarappa. , Kumar Swamy H. Malleshappa and Venkatarangaiah Krishna. (2013). “Molecular docking of Glycogen Synthase Kinase3- β inhibitor oleanolic acid and its wound healing activity in rats”. Medicinal chemistry research 22:156-164. ISSN: 1054-2523
42.	Harish BG, Sharath Rajashekarappa , Venkatarangaiah Krishna, Channarayappa C, Manjunatha Hanumanthappa. Molecular docking and Evaluation of wound healing activity of stigmastatone isolated from bark of Celastrus paniculatus Willd. Journal of Biochemical Technology. 3(5):S 134-137. ISSN: 0974-2328
43.	Jeevalakshmi V., Sharath, R. , Chandrabrabha, M.N., Neelafur, E., Abhishiktha Hazra., Malyashree Patra (2012) Synthesis, Characterization and evaluation of antimicrobial activity of Zinc oxide nanoparticles. Journal of Biochemical Technology. 3(5):S151-154. ISSN: 0974-2328
44.	Harish B. Gowdru, Sharath Rajashekarappa , Kumaraswamy H. Malleshappa, Katenahalli R. Maruthi, Venkatarangaiah Krishna (2012) In Vitro Regeneration of Inflorescence and Callus Enhancement of Celastrus paniculatus Willd. Medicinal and Aromatic Plant Science and Biotechnology- Volume 1, Issue 1, 12-17.
45.	Sharath R , Harish, B.G., V. Krishna, B.N. Sathyanarayana, Harish, B. Gowdru, , H.M. Kumara Swamy. (2010) Wound healing and protease inhibition activity of Bacoside-A, isolated from Bacopa monnieri Wettst. – Phytotherapy research- 24: 1217-1222. ISSN: 1099-1573
46.	R. Sharath , V. Krishna, B.N. Sathyanarayana, B.N. Maruthi Prasad and B.G. Harish. 2007. High frequency Regeneration through Somatic Embryogenesis in Bacopa monnieri (L.) Wettst, an Important Medicinal Plant.- Medicinal and Aromatic Plant Science and Biotechnology, 1(1) : 138-141.
47.	Sharath Rajashekharappa , V. Krishna, B.N. Sathyanarayana, Harish, B. Gowdar. 2008. Antibacterial activity of Bacoside-A an active constituent of Bacopa monnieri (L.) Wettst.- Pharmacologyonline (2) 517-528. ISSN: 1827-8620.
48.	B. G. Harish, V. Krishna, R. Sharath , H. M. Kumara Swamy, H. Raja Naika, K. M. Mahadevan 2007. Antibacterial Activity of Celaphanin, a Sesquiterpene Isolated from Leaves of Celastrus paniculatus Willd.- International Journal of Biomedical and Pharmaceutical Sciences, 1(1) : 39-42

49.	B.G. Harish., V. Krishna., H.S. Santhosh Kumar, B.M. Khdeer Ahamed, R. Sharath , H.M Kumaraswamy (2008). “Wound healing activity and docking of GSK3- β with lupeol isolated from <i>Celastrus paniculatus</i> Willd.” <i>Phytomedicine</i> 15;763–767. ISSN: 0944-7113
50.	B.N. Maruthi Prasad, B.N. Sathyanarayana, Jaime A. Taxeira DA Silva, R. Sharath and Gowda Balakrishna. 2007. Studies on regeneration in <i>Chlorophytum borivillianum</i> , through somatic embryogenesis – <i>Medicinal and Aromatic Plant Science and Biotechnology</i> , 1(1) : 128-132 ISSN: 1752-3389
51.	B. N Maruthi Prasad, B. N Sathyanarayana, Gowda Balakrishna, R Sharath 2007. In Vitro Regeneration of Drug-Yielding Tuber Crop <i>Chlorophytum borivillianum</i> <i>Medicinal and Aromatic Plant Science and Biotechnology- Global Science Books</i> , 1(1) : 124-127. ISSN: 1752-3389
52.	B.M. Khadeer Ahamed, V. Krishna, B.G. Harish, H. Raja Naika, H.M. Kumaraswamy, Sharath Rajasekharappa , J. D. Chethan, K.M. Mahadevan. 2007. Isolation of bactericidal constituents from the stem bark extracts of <i>Grewia tiliaefolia</i> Vahl - <i>Research Journal of medicinal plants</i> . – 72-82 ISSN: 2151-7924

b) National Journals

1.	Hegede, V., Kag, B., Sathyanarayana, B. and Sharath, R (2012). Rapid in vitro multiplication and shoot regeneration from nodal explants of Rose. <i>Journal of cell and Tissue research</i> . 11(3) 2961-2965
2.	Bharat Kag, Vinay Hegde, B.N.Sathyanarayana, R. Sharath , Shivapriya Manchali (2012) Direct Regeneration from Leaf Explants of <i>Petunia</i> , <i>Petunia Hybrida</i> . <i>Journal of Agriculture Science and Technology</i> , Volume 1, Issue 1, April 2012, Pages 12-17. ISSN: 1680-7073
3.	B. N Maruthi Prasad, C. Ravindran, R Sharath . 2009. Rapid multiplication of plants through Micropropagation and Somatic Embryogenesis. <i>Plant Horticulture Technique- Vol.9 No.2</i> .

c) International Conference

1.	R Tilak, R Sharath* , H M Kumaraswamy. Antioxidant-Linked Pharmacological Potential of a Traditionally Used Asian Wild Fruit: A Bioactive Metabolite Assessment of <i>Flacourtia montana</i> . The Second Vietnam International Symposium on Medicinal Plants and Natural Products (MPNP2026), Vietnam (26 March, 2026 to 28 March, 2026). International Centre for Interdisciplinary Science and Education, 07 Science Avenue, Vietnam Quy Nhon (Vietnam).
2.	Sharath R, Harish B G, Chandrababha M N, Samrat K, Vikram Vajantri, Anvesh Anand1, Sandesh K S. Comparative Study on Cytotoxic and bactericidal effect of Nanoscale Zero Valent Iron Synthesized through Chemical and Biological Methods. Fourth International Conference on Nonmedicine and Tissue Engineering (ICNT2016)” held during 12-14 August 2016. Jointly organized by International and inter University Centre for Nan science and Nanotechnology (IIUCNN) Wuhan University, Nicholas Copernicus University held at Mahatma Gandhi University, Kottayam Kerala.
3.	Sharath R, Harish B G, Chandrababha M N, Samrat K, Vikram Vajantri, Anvesh Anand1, Sandesh K S. Comparative Study on Cytotoxic and bactericidal effect of Nanoscale Zero Valent Iron Synthesized through Chemical and Biological Methods. Fourth International Conference on Nonmedicine and Tissue Engineering (ICNT2016)” held during 12-14 August 2016. Jointly organized by International and inter University Centre for Nan science and

	Nanotechnology (IIUCNN) Wuhan University, Nicholas Copernicus University held at Mahatma Gandhi University, Kottayam Kerala.
4.	Sharath,R, Bincy Rose Vergis, Samrat K, Muktha Nagaraju Kottam. Synthesis, characterization of nano copper ferrite and evaluation of its antimicrobial activity against different clinical isolates. Second international conference on Nanostructure materials and nanocomposites ICNM 2014” held during 19-21st December 2014 organized by International and inter University Centre for Nan science and Nanotechnology (IIUCNN) Mahatma Gandhi University, Kottayam Kerala.
5.	Muktha. H , Sharath, R., Nagaraju Kottam., Samrat.K Spinel ferrites-A future boon to Nanotechnology based therapies. Second international conference on Nanostructure materials and nanocomposites ICNM 2014” held during 19-21st December 2014 organized by International and inter University Centre for Nan science and Nanotechnology (IIUCNN) Mahatma Gandhi University, Kottayam Kerala.
6.	R. Sharath, V. Krishna, B. N. Sathyanarayana, B. G. Harish, H. M. Kumara Swamy Antibacterial activity of methanol extract of <i>Bacopa monnieri</i> (L.) Wetttest- an Important Medicinal Plant- Indo-Australian conference on Human Variation and Pharmacogenomics. Held on 17th to 19th March 2007 in MAHE, Manipal
7.	Al- Thobani MA, Sharath R. Sajad M Zargar and Sathyanarayana BN have been awarded the 3rd prize for the Postal Presentation entitled “Molecular analysis for determining diversity in tannin content among QAT (<i>Catha edulis</i>) grown in Yemen.” International conference on Biotechnology Approaches for Alleviating Malnutrition and Human Health. Held on 9-11th January 2006.

d) National Conference

1.	Sharath R, Harish B G, Samrat K, Chandrababha M N, Rakesh G Kashyap, Green synthesis of Copper Nanoparticles using <i>Calendula officinalis</i> L. and its efficacy on Breast Cancer Cell Lines (MCF – 7). National Seminar On : Frontiers Research on Diversity and Taxonomy of Medicinal Plants” organized by the Biological Science Departments, Kuvempu University, Shankaraghatta on 4th and 5th November 2016.
2.	Preetham J, Kiran.S, Sharath.R, Sujana Ganapathy P.S Mruntanjaya K , Sushma S.murthy, Carbon Tetrachloride induced Hepatoprotective Activity of Stem of <i>Gnetum ula</i> Brongn. National Seminar On : Frontiers Research on Diversity and Taxonomy of Medicinal Plants” organized by the Biological Science Departments, Kuvempu University, Shankaraghatta on 4th and 5th November 2016.
3.	Sharath, R., Channarayappa, Harish, B.G., Amruta P.J, Chandrika.V, Jeeva Lakshmi.V, Pratima Bhat, Parvati Chandran. Evaluation of antimicrobial and anti-cancerous activities from crude extract of <i>Chlorophytum borivilianum</i> A National conference on “National conference on biotechnology and society.” held on 19th -20th April 2012 at PG Department of Biotechnology and Bioinformatics, Kuvempu University.
4.	Sharath, R., Chandrababha, M.N., JeevaLakshmi, V. Abhishikta Hazra, Neelafur, E., Malyashree Patra. “Synthesis, Characterization and Evaluation of Antimicrobial activity of Zinc Oxide nanoparticle” A National conference on “Recent advances in Health, Agriculture

	and Environmental biotechnology” held on 11th -13th April 2012 at Department of Biotechnology M.S. Ramaiah institute of Technology, Bangalore.
5.	Sharath, R., Chandrababha, M.N., JeevaLakshmi, V. Abhishikta Hazra, Neelafur, E., Malyashree Patra. “Synthesis, Characterization and Evaluation of Antimicrobial activity of Zinc Oxide nanoparticle” A National conference on “Recent advances in Health, Agriculture and Environmental biotechnology” held on 11th -13th April 2012 at Department of Biotechnology M.S. Ramaiah institute of Technology, Bangalore.
6.	Sharath, R., Rashmi S. N., Sharmila V., Surekha R, Tejaswini R. “ In vitro regeneration and evaluation of antimicrobial activity of different extracts of Eupatorium triplinerve.- A National conference on “Bioactive compounds and Therapeutics” held on 27th -28th February 2012 at PG Department of Life sciences, The Oxford College of Science Bangalore.
7.	R. Sharath, V. Krishna, B. N. Sathyanarayana Wound healing activity of methanol extract of Bacopa monnieri (L.) wettest- an Important Medicinal Plant – National Conference on Chemistry and Biological Science. Held on 23rd to 24th March 2007 at Department of Chemistry, Kuvempu University.
8.	Sharath, V. Krishna, B.N. Sathyanarayana, B.N. Maruthi Prasad and B.G. Harish “Regeneration of Plantlets through Somatic Embryogenesis from leaf explants of Bacopa monnieri (L.) Wetttest.- National conference on emerging trends and future challenges in biotechnology held on 22-23 September 2006 in PES Institute of technology.
9.	Attended National conference on “Dissecting the complexities of plant biotechnology in the Post-genomic Era ” held on 21 st September 2011, at the Department of Biotechnology and Centre for Bioinformatics, Tumkur University, Tumkur.
Refresher Course/Workshop Organized/Attended	
1.	Participated and completed successfully AICTE Training and Learning (ATAL) academy online FDP on “Nutraceuticals: Basics and Beyond” from 12/07/2021 to 16/07/2021 Organized by Bannari Amman Institute of Technology.
2.	Participated and completed successfully AICTE Training and Learning (ATAL) academy online FDP on “Genome Engineering and Technology” from 28/09/2020 to 02/10/2020 Organized by University BDT Engineering college.
3.	Attended in the National Webinar on Diet and Nutrition for life style disease management during Covid-19 pandemic from 25/08/2020 to 27/08/2020 organized by bakery training unit, Directorate of Extension, University of Agricultural Sciences, Hebbal, Bangalore-560024.
4.	Attended in the “National level Five Days online Training in Biological Sciences” conducted by Sree Narayana College, Nattika, Thrissur, Kerala from 03/08/2020 to 07/08/2020.
5.	Attended 4 week Webinar Induction/Orientation Programme for “Faculty in University/Colleges/Institutes of Higher Education” from 4 th June to 1 st July 2020 organized by Teaching Learning Center Ramanujan College, University of Delhi, Sponsored by Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.

6.	Participated in 20 days internship programme in 1st virtual summer school on “ Nanoscience and Nanomaterials” organized by National Center for Nanoscience and Nanotechnology, University of Madras from 10/07/202 to 30/07/2020.
7.	Attended 55 th online Short term course on “E-content Development”, during 11/06/2020 to 17/06/20 organized by UGC- Human Resource Development Center, Gujarat University , Ahmedabad.
8.	Attended FDP Webinar Series on “ Effective Usage of Educational Technology in Teaching-Learning Process as a Part of NBA Accrediation”. Organized by the Department of Computer Science Engineering, Electronics and Communication Engineering and Medical Electronics Engineering in Association with IQAC-MSRIT under Margdharshan Scheme Sponsored by AICTE from 22 nd June to 26 th June 2020
9.	Attended National Webinar Series (NWS) 2020 on “Immunity and infection: Biochemical Approaches to Therapies” Conducted by in association with Department of Biochemistry and Society of Biological Chemists (India), Davanagere Baranch, Davangere University from 15 th to 21 st June 2020.
10.	Attended Faculty Development Program organized by Davangere University, Shivagangotri, Davanagere from 6 th January to 13 th January 2020.
11.	Participated in the Science Academies “ Refresher course on Bio-prospection of Bioresoures: Land to Lab Approach” from 4th to 18th January 2018 at PG and Research, Department of Botany, St. Joseph`s College (Autonomous), Tiruchirapalli, Tamilnadu Sponsored by Indian Academy of Sciences, Bangalore, Indian National Science Academy. New Delhi, National Academy of Sciences, India, Allahabad
12.	Attended Five days FDP on “Technical Workshop on Applications of Biotechnology I Natural Products Development” under TEQIP-II during 28 th June to 2 nd July 2016 organized at Department of Chemistry , MSRIT, Bangalore.
13.	Attended Five days FDP on “Computational Tools for OMICS data Analysis” under TEQIP-II during 11 th to 15 th July 2016 Jointly organized at Department of Biotechnology and Department of Computer Applications , MSRIT, Bangalore.
14.	Attended one week summer school on “Non-Destructive testing and its Applications: Perspective of imaging” under TEQIP-II during 11 th to 16 th July 2016 organized at MSRIT, Bangalore.
15.	Attended One day seminar on “The Craft of Writing Research Grant Proposal” under TEQIP-II on 20 th May 2016 organized at Department of Biotechnology, MSRIT, Bangalore.
16.	Attended FDP on “Recent Advances in Materials design and Characterization (RAMDC-2016)” under TEQIP-II during 11 th and 13 th January 2016organized at Department of Chemistry , MSRIT, Bangalore.
17.	Attended Five days FDP on “Recent advances in Nano and Bio-inorganic Materials (RANBM-2015)” under TEQIP-II during 16 th – 18 th July 2015 organized by the Department of Chemistry, at MSRIT Bangalore.

18.	Attended three days FDP on “Applied Catalysis and reaction engineering” under TEQIP-II during 13 th – 17 th July 2015 organized by the Department of Chemical engineering, at MSRIT Bangalore.
19.	Organized 5 day FDP on “Current advances in Bio-analytical Techniques” under TEQIP-II held during 25 – 29 th May 2015 organized at MSRIT Bangalore.
20.	Attended Faculty Development Program (FDP) on “Design and Optimization of Experiments”, held from 4 th to 7 th of August 2014, organized by Department of Chemical Engineering, MS Ramaiah Institute of Technology, Bangalore.
21.	Attended workshop on “X-ray Crystallography”, held from 1st to 2nd of July 2014, organized by Department of Physics and Department of Chemistry, MS Ramaiah Institute of Technology, Bangalore.
22.	Attended workshop on Faculty development program on “Recent Advances in Catalysis & Engineering” under TEQIP-II 27th to 31st Jan 2014 MSRIT.
23.	Attended Five Days Workshop on “Computer Forensics” held on 5th to 10th August 2013, at the M.S. Ramaiah Institute of technology, organized by the Department of Computer Science Engineering, Under TEQIP-II.
24.	Attended Five Days Workshop (FDP Programme) on “Biostatistics-Hands on with SPSS and R tool” held on 8 th to 10 th July 2013, at the BMS College of Engineering, by the Department of Medical Electronics Under TEQIP Programme.
25.	Attended Five Days Workshop (FDP Programme) on “Curriculum Development Using Outcome based Education in Engineering” held on 24 th to 28 th June 2013, at the M.S. Ramaiah Institute of technology, organized by the Department of Civil Engineering, Under TEQIP-II.
26.	Attended National conference on “Frontiers and challenges in Biological and Organometallic Compounds ” held on 20 th -21 st June 2013, at at the M.S. Ramaiah Institute of technology
27.	Attended VTU-VGST Sponsored Three days Faculty Developmental Programme on “Re-Engineering of Environmental Impact Assessment Process (REIAP), Held Bapuji Institute of engineering and Technology, Davanagere at 5-7 th March 2011.
28.	Attended Lecturer Workshop on “Genetic Transformation and Transgenic Plants: Concepts, Applications and concerns” held during 7 th – 9 th September 2010, at the School of Bio Sciences and Technology, VIT University, Vellore-632014.
29.	Work shop on Biotechnology practical organized by Dept. of Biotechnology, Kuvempu University, Shankaraghatta-577451, Shimoga in associated with Bangalore Genei Company from Bangalore.

Book Published / Book Chapters Published:

H Muktha, **R Sharath**, KJ Chandini, N Anuradha, Harshitha Raj. 2026. Carbon dots in drug delivery. Book chapter: Inorganic Biomaterials for Drug Delivery. Woodhead Publishing. PP: 55-69.

H. Muktha., **R. Sharath.**, K.J. Chandini and Anuradha N. Gangapur. 2025. Carbon dots in Biosensors., Chapter 13, Page No: 279-292. Published in Materials and Components of Biosensors in Health care Edited by Md Saquib Hasnain, Amit Kumar Naik and Tejraj M Aminbhavi. Academic Press Elsevier publisher.

Samrat K., **Sharath R.***, Chandrababha M. N., Hari Krishna R. and Kumaraswamy H. M. Role of Green Nanocomposites in Smart/Active Food Packaging. PP: 59-77. Book Editor(s):Annu, Tanima Bhattacharya, Shakeel Ahmed, **Nanotechnology in Intelligent Food Packaging**. Online ISBN: 9781119819011 Print ISBN: 9781119818953 DOI:10.1002/9781119819011.

Sharath R., Harish B. G , Chandrababha M. N. , Samrat K., Nagaraju Kottam, Hari Krishna R. and Rakesh G. Kashyap. Comparative Study on Cytotoxic and Bactericidal Effect of Nanoscale Zero Valent Iron Synthesized through Chemical and Biological Methods. Recent Trends in Nanomedicine and Tissue Engineering. Editors: Jince Thomas, Sabu Thomas, Jiya Jose, Nandakumar Kalarikka., River Publishers, PP: 197-217.

Sharath R., Nagaraju Kottam, Muktha H., Samrat K., Chandrababha M. N. Harikrishna R., and Bincy Rose Vergis 2016. Spinel Ferrites-A Future Boon to Nanotechnology Based Therapies. Nanomaterials Physical, Chemical, and Biological Applications (Book Chapter). Editors: Nandakumar Kalarikkal, Sabu Thomas, Obey Koshy. Apple Academy press. Hard ISBN: 9781771884617 E-Book ISBN: 9781771884624. PP: 217-316.

Invited Talks

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| 1 | Invited Talk on “Strategies to ensure students support and progression” Conference Quality Measures to be adopted by Higher Education Institutions. Organized by Garden city University on 12th March 2021, Garden city University, Bangalore |
| 2 | Invited talk on “Food waste and sustainability”, in One Day National Webinar on “ Environmental Awareness and Sustainability ” Organized by Department of Studies and Research in Environmental Science, University College of Science, Tumkur University, Tumkur on 5 th June, 2020. |
| 3 | Invited talk on “Nanomaterials for wound healing and infection control” at Faculty Development Programme on Recent Trends in Biological and Environmental Sciences (RTBES-2020) organized by Jointly associated with the Department of Chemistry and Department of Physics during 13 th to 18 th January, 2020. Talk Delivered on 14-01-2020 (Tuesday) from 2 – 4.30 PM |

Review the Journals

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| 1 | Reviewed the research paper “An Updated Overview On Yellow Bells (Tecoma Stans): An Important Medicinal Shrub.” of Research Journal name “Journal of Applied Biology & Biotechnology” on June 29, 2020 |
| 2 | Reviewed the research paper “In vitro conservation, Phytochemical analysis and Antimicrobial effect of leaf and leaf derived callus extract of Medicinally important Cleome felina L.” of Research Journal name “Journal of Applied Biology & Biotechnology” on April 24, 2020 |
| 3 | Reviewed the manuscript, entitled "In silico based unraveling of New Delhi Metallo-β-Lactamase (NDM-1) inhibitors from natural compounds: A molecular docking and molecular dynamics simulation study" for Journal of Biomolecular Structure & Dynamics. |
| 4 | Reviewed the manuscript, entitled "Design of Dipicolinic Acid Derivatives as New Delhi Metallo-βlactamase-1 inhibitors using 3D quantitative structure-activity relationship (QSAR)" for Journal of Biomolecular Structure & Dynamics. |

Research Guidance Details (MPhil/PhD):						
Sl.No	Name of the Scholar	University	Guide/C o-guide	Registration month & Year	Research Area	Status
1.	Venkatesh R	Davangere University	Guide	2025-2026	Food Technology	Ongoing
2.	Kavana GH	Davangere University	Guide	2025-2026	Food Technology	Ongoing
3.	Amit Kumar MP	Davangere University	Guide	2025-2026	Food Technology	Ongoing
4.	Neelavathi	Davangere University	Guide	2025-2026	Food Technology	Ongoing
5.	Tilak R	Davangere University	Guide	2023-24	Food Technology	Ongoing
6.	Veena R	Davangere University	Guide	2021-22	Food Technology	Final synopsis submitted
7.	Bhavya SG	Visvesvaraya Technological University	Guide	2015	Proteomics	Completed
8.	Muktha H	Visvesvaraya Technological University	Guide	2013	Nano-biotechnology	Completed
9.	Samrat K	Visvesvaraya Technological University	Co-Guide	2013	Nano-biotechnology	Completed
10.	Preetham J	Visvesvaraya Technological University	Co-guide	2012	Plant Biotechnology	Completed

Achievements/Awards / Abroad visit / Professional Membership	
1.	Life time member of Royal Society of Biology
2.	Life Member of Microbiologist Society, India
3.	Active member of IAENG (International Association of Engineers)
4.	Life time member of Materials Research Society of India
5.	Life time member of Society of Biological Chemists (India)
6.	Active Member of UNICEF

Personal Details		
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	Dr. Sharath, R #5293/143, Shri Banashankari Nilaya, 5 th B Main Road, Near Swami Vivekananda School Ground, Banashankari Layout, Davanagere-577005	Dr. Sharath, R #5293/143, Shri Banashankari Nilaya, 5 th B Main Road, Near Swami Vivekananda School Ground, Banashankari Layout, Davanagere-577005
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