

Curriculum Vitae



Dr. Chandrashekar S

Assistant Professor

Department of Studies in Biotechnology
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Professional Summary

Distinguished biotechnology researcher and educator with 8+ years of experience in molecular diagnostics, plant biotechnology, molecular pathology, and nanotechnology. Currently serving as Assistant Professor at Davangere University with proven expertise in research supervision, grant acquisition, and interdisciplinary collaboration. Specializing in host-pathogen interactions, cancer biology, and bioprospecting with 63+ peer-reviewed publications and 3 patents in nanotechnology-based diagnostics.

Educational Qualifications

Degree	Specialization	University	Year
Ph.D.	Biotechnology	University of Mysore	2015
M.Phil.	Biotechnology	Vinayaka Mission University	2008
M.Sc.	Biotechnology	University of Mysore	2007
B.Sc.	Biotechnology	University of Mysore	2005

Areas of Specialization

- Molecular Diagnostics of Plant and Animal Pathogens
- Plant Biotechnology and Molecular Plant Pathology
- Host-Pathogen Interactions
- Cancer Biology and Therapeutic Approaches
- Nanotechnology and Nanomaterials

Professional Experience

Position	Institution	Duration	Level
Assistant Professor	Davangere University, Department of Studies in Biotechnology	July 2019 – Till Date	Postgraduate
Assistant Professor	Yuvaraja's College, University of Mysore	October 2016 – July 2019	Undergraduate
Guest Faculty	Yuvaraja's College, University of Mysore	August 2015 – October 2016	Undergraduate
Guest Faculty	Maharani's Science College Mysore, University of Mysore	July 2015 – October 2016	Undergraduate
Lecturer	Sardavilas College, University of Mysore	February 2015 – April 2015	Undergraduate

Administrative Experience

- **Board of Studies (BOS) Member-** St. Philomena's College, Mysore (2026-29)
- **Board of Examination (BOE) -** DoS in Biotechnology, Davangere University, Davangere (2025-26)
- **Board of Studies (BOS) Member –** St. Philomena's College, Mysore (2017-18)
- **Board of Examination (BOE) Member –** Yuvaraja's College, Mysore (2016-17)
- **Board of Examination (BOE) Member –** JSS Women's College, Mysore (2016-17)
- **Board of Examination (BOE) Member –** JSS College of Arts, Science and Commerce, Mysore (2017-18)
- **Member –** Institutional Ethical Committee, Davangere University
- **Coordinator –** NPTEL SWAYAM Program, Davangere University

Research Projects

Ongoing/Completed Projects

1. Elucidation of Molecular Mechanism of Lasso Peptides

Title: Elucidation of the molecular mechanism of lasso peptides xanthomonin I-III from *Xanthomonas* species inhibiting RNA biosynthesis

- **Role:** Principal Investigator
- **Funding Agency:** UGC (University Grants Commission), Government of India, New Delhi
- **Amount Sanctioned:** ₹10,00,000 (10 Lakhs)
- **Status:** Sanctioned
- **Focus:** Molecular characterization of antimicrobial peptides and their mechanism of action

2. Bioprospecting of Medicinal Plants for Quorum Sensing Inhibition

Title: Bioprospecting of some medicinal plants for Quorum Sensing inhibition against clinically important multi-drug resistant pathogens

- **Role:** Co-Investigator
- **Funding Agency:** K-FIST L1, Government of Karnataka, Bangalore
- **Amount Sanctioned:** ₹15,00,000 (15 Lakhs)
- **Status:** Sanctioned
- **Focus:** Discovery of anti-biofilm and antimicrobial compounds from indigenous medicinal plants

Patents

Patent Title	Patent No.	Applicant	Year	Country
NMDA receptors antagonist from natural sources for Parkinson disease	202341055613	Dr. Chandrashekar S.	2023	India
An image processing device based on machine learning for plant disease identification	403229-001	Dr. Chandrashekar S.	2023	India

Fluorescent Probe and Preparation Method thereof for Detection of Cu (II) and Fe (III) Ions	202241003888	Dr. Chandrashekar S.	2022	India
Cysteine-Functionalized Gold Nanostructures as Chemical Sensor	202141036928	Dr. Chandrashekar S.	2021	India
Fluorescent Chemical Sensor and Preparation Method thereof for Detecting Cu (II) and Fe (III) Ions	202141041423	Dr. Chandrashekar S.	2021	India

Publications

- 1) Deepthi Puttegowda, Lakshmi Jayaram, Deepashree Rajshekar, Stavelin Abhinandithe K, Sowjanya Pulipati, Maciej Przybyłek, **Chandrashekar Srinivasa**, Ramith Ramu, Mudassar Shahid. Prevalence and antimicrobial resistance of Acinetobacter baumannii isolated from endotracheal aspirates in a tertiary-care intensive care unit from South IndiaFrontiers in Microbiology, Volume 17 - 2026 | <https://doi.org/10.3389/fmicb.2026.1784001>,
- 2) Sanjay S Majani, Pallavi Singh, Pallavi Kumari, Poojitha B Sridhara Setty, Chandan Shivamallu, **Chandrashekar Srinivasa**, Kasim Sakran Abass, Muzaffar Iqbal, Raghavendra G Amachawadi, Victor Stupin, Ekaterina Silina, Shiva Prasad Kollur. Cerium oxide nanoparticles prepared through Bio-combustion using Ficus carica as effective antioxidant, anticancer and dye degrading agent. Scientific Reports volume 15, Article number: 30285 (2025). <https://doi.org/10.1038/s41598-025-13914-3>.
- 3) Anisha Jain, Bhargav Shreevatsa, Saravanan Rajendrasozhan, Chandan Dharmashekar, Kuralayanapalya Puttahonnappa Suresh, Sharanagouda S Patil, Pranav Singh, Prashant Vishwanath, **Chandrashekar Srinivasa**, Shiva Prasad Kollur, Chandan Shivamallu. Progression-free survival estimation of docetaxel-based second-line treatment for advanced non-small cell lung cancer: a pooled analysis from 18 randomized control trials. Frontiers in Oncology Volume 14 - 2024 <https://doi.org/10.3389/fonc.2024.1298786>.

- 4) Prajwal Bhanu, J Lakshmi, Gagan Deep VS, **Chandrashekar Srinivasa**, Ling Shing Wong, Ramith Ramu. Draft genome sequence of *Lactocaseibacillus paracasei* isolated from fermented banana pseudostem: genomic insights into probiotic and anti-diabetic potential. Data in Brief, 2026. <https://doi.org/10.1016/j.dib.2026.112574>.
- 5) Shreevatsa, B., Nagaraj, A., Dharmashekara, C., Jain, A., Harendra, B., Siddalingegowda, S. V., Al-Mazroua, H. A., Ahmad, S. F., Prasad, S. K., **Srinivasa, C.**, Shivamallu, C., & Kollur, S. P. (2025). Exploring precision therapeutics: Computational design of antisense oligonucleotides targeting AXL gene transcripts in multiple sclerosis treatment management. *Frontiers in Chemistry*, 13, Article 1548269. <https://doi.org/10.3389/fchem.2025.1548269>
- 6) Hindu, M., Harendra, B. H., Jain, A. S., **Srinivasa, C.**, Chandrappa, K. G., Shreevatsa, B., Pradeep, S., Dharmashekara, C., Kollur, S. P., Deepak, T. S., & Shivamallu, C. (2023). Computational approach assessing the antibacterial activity of *Acorus calamus* against *Helicobacter pylori*. *Letters in Applied NanoBioScience*, 12(4), 91. <https://doi.org/10.33263/LIANBS124.091>
- 7) Mamathashree, M., Putta Kuralyanapalya, S., Honnappa, P., Indrabalan, S., Beelagi, M., Paramanandham, K., Krishnamoorthy, J., Siju, S., **Chandrashekar, S.**, Kollur, S. P., Achar, R. R., Prasad, A., Prasad, S., & Shivamallu, C. (2023). A new informatics framework for evaluating the codon usage metrics, evolutionary models and phylogeographic reconstruction of tomato yellow leaf curl virus (TYLCV) in different regions of Asian countries. *International Journal of Health and Allied Sciences*, 11. <https://doi.org/10.55691/2278-344X.1016>
- 8) Shanbhog, P., Jagadish, Jain, A., Chandrappa, K., **Chandrashekar, S.**, Prasad, A., Bhargav, K. S., Pradeep, S., Dharmashekara, C., Kollur, S. P., & Shivamallu, C. (2023). *In silico* analysis of antibacterial activity of *Eclipta alba* against *Brucella melitensis*: A bioinformatics approach. *Letters in Applied NanoBioScience*, 12, 167. <https://doi.org/10.33263/LIANBS124.167>
- 9) Reddy, P., Pradeep, S., Gopinath, S. M., Dharmashekara, C., G, D., Chakith, S. C., **Chandrashekar, S.**, Shati, A. A., Alfaifi, M. Y., Elbehairi, S. E. I., Achar, R. R.,

- Silina, E., Stupin, V., Manturova, N., Shivamallu, C., & Kollur, S. P. (2023). Cell cycle arrest and apoptotic studies of *Terminalia chebula* against MCF-7 breast cancer line: An *in vitro* and *in silico* approach. *Frontiers in Oncology*. Advance online publication. <https://doi.org/10.3389/fonc.2023.1221275>
- 10) Prakash, H. S., Kavitha, G. C., Taradale, A. A., Poornima, D., Babu, G. M., Pallavi, M., Nethravathi, A. M., **Chandrashekar, S.**, Shreevatsa, B., Ashwini, P., Kollur, S. P., & Shivamallu, C. (2023). "Management principles in agricultural activities"—A study with specific reference to paddy crop in southern part of Karnataka. *European Chemical Bulletin*, 12(S3), 5545–5558. <https://doi.org/10.31838/ecb/2023.12.S3.821>
 - 11) Shreevatsa, B., Shivalingaiah, Dharmashekara, C., Siddalingegowda, S. V., Sumanth, R. M., Jain, A. S., Harendra, B., Nagaraj, A., Thoyajaksha, Chandrashekar, S., Ashwini, P., Kollur, S. P., & Shivamallu, C. (2023). [Title not specified]. *European Chemical Bulletin*, 12(S3), 5559–5569. <https://doi.org/10.31838/ecb/2023.12.s3.621>
 - 12) **Chandrashekar, S.**, Santosh Kumar, S. R., Pradeep, S., Prasad, S. K., Veerapur, R., Ansari, M. A., Alomary, M. N., Alghamdi, S., Almeshmadi, M., Kavitha, G. C., Daphedar, A. B., Kakkalameli, S. B., Shivamallu, C., & Kollur, S. P. (2022). Eco-friendly synthesis of MnO₂ nanorods using *Gmelina arborea* fruit extract and its anticancer potency against MCF-7 breast cancer cell line. *International Journal of Nanomedicine*, 17, 901–907. <https://doi.org/10.2147/IJN.S335848>
 - 13) **Chandrashekar, S.**, Umesha, S., Pradeep, S., Ramu, R., Gopinath, S. M., Ansari, M. A., Alomary, M. N., Ali, A., Ahmad, W., Kollur, S. P., & Shivamallu, C. (2022). Salicylic acid-mediated enhancement of resistance in tomato plants against *Xanthomonas perforans*. *Saudi Journal of Biological Sciences*, 29(4), 2253–2261. <https://doi.org/10.1016/j.sjbs.2022.02.004>
 - 14) **Chandrashekar, S.**, Mellappa, G., Patil, S. M., Ramu, R., Shreevatsa, B., Dharmashekara, C., Kollur, S. P., Syed, A., & Shivamallu, C. (2022). Plants and endophytes—A partnership for the coumarin production through the microbial

systems. *Mycology*, 13(4), 243–256. <https://doi.org/10.1080/21501203.2022.2027537>

- 15) **Chandrashekar, S.**, Pradeep, S., Patil, S. M., Ramu, R., Kollur, S. P., Prasad, S. K., & Shivamallu, C. (2022). Bioprospecting of lapachol producing endophytic fungi. *International Journal of Health and Allied Sciences*, 11, 90–95. <https://doi.org/10.55691/2278-344X.1014>
- 16) Pradeep, S., Patil, S. M., Dharmashekara, C., Jain, A., Ramu, R., Shirahatti, P. S., Mandal, S. P., Reddy, P., **Chandrashekar, S.**, Patil, S. S., Ortega-Castro, J., Frau, J., Flores-Holguín, N., Shivamallu, C., Kollur, S. P., & Glossman-Mitnik, D. (2022). Molecular insights into the *in silico* discovery of corilagin from *Terminalia chebula* as a potential dual inhibitor of SARS-CoV-2 structural proteins. *Journal of Biomolecular Structure and Dynamics*. Advance online publication. <https://doi.org/10.1080/07391102.2022.2158943>
- 17) Kole, P. B., Kollur, S. P., Revanasiddappa, H. D., Shivamallu, C., Costa, R. A., Junior, E. S. A., Anselmo, L. M., da Silva, J. N., **Chandrashekar, S.**, Syed, A., & Singh, F. V. (2022). Structural, electronic, vibrational and pharmacological investigations of highly functionalized diarylmethane molecules using DFT calculations, molecular dynamics and molecular docking. *Polycyclic Aromatic Compounds*. Advance online publication. <https://doi.org/10.1080/10406638.2022.2041050>
- 18) Chaitra, N., Jain, A. S., Vaidya, G., Sahana, C., Pavithra, H. S., **Chandrashekar, S.**, Puttahonnappa, K. S., Patil, S. S., Bindya, S., Kollur, S. P., & Shivamallu, C. (2022). Progression-free survival estimation of docetaxel-based second-line treatment for advanced non-small cell lung cancer: A pooled analysis from 18 randomized control trials. *Oman Medical Journal*. <https://doi.org/10.5001/omj.2022.94>
- 19) Nagaraju, C., Vaidya, G., Jain, A. S., Puthiyidath Nair, A., Chandrappa, S., **Chandrashekar, S.**, Puttahonnappa, K. S., Patil, S. S., Shivananda, B., Kollur, S. P., & Shivamallu, C. (2022). Overall survival prediction of docetaxel-based second-line treatment for advanced non-small cell lung cancer: A systematic

- review and meta-analysis. *Oman Medical Journal*, 37(5), e419. <https://doi.org/10.5001/omj.2022.86>
- 20) Badarinath Mahajanakatti, A., Deepak, T. S., Achar, R. R., Pradeep, S., Prasad, S. K., Narayanappa, R., Bhaskar, D., Shetty, S., Melappa, G., Chandramouli, L., Mazumdar, S., Silina, E., Stupin, V., **Chandrashekar, S.**, Shivamallu, C., & Kollur, S. P. (2022). Nanoconjugate synthesis of *Elaeocarpus ganitrus* and the assessment of its antimicrobial and antiproliferative properties. *Molecules*, 27(8), 2442. <https://doi.org/10.3390/molecules27082442>
- 21) Kavitha, G. C., Poornima, D., Pallavi, M., Vyshali, V. M., Nethravathi, A. M., Shreevatsa, B., Kallimani, S., **Chandrashekar, S.**, Prasad, A., Reddy, P., Shivamallu, C., & Kollur, S. P. (2022). Phytochemical investigation and *in vitro* antioxidant potentials of *Adenocalymma alliaceum*. *NeuroQuantology*, 20(11), 7685–7695. <https://doi.org/10.14704/nq.2022.20.11.NQ66765>
- 22) Kavitha, G. C., Pallavi, M., **Chandrashekar, S.**, Dharmashekara, C., Shreevatsa, B. K., Kollur, S. P., Shivamallu, C., Patil, S., & Ashwini, P. (2022). Evaluation of antimutagenic potential of *Chrozophora rottleri* against EMS induced mutagenicity in mice. *International Journal of Pharma and Bio Sciences*, 13(1), B125–B133. <https://doi.org/10.22376/ijpbs.2022.13.1.B125-133>
- 23) Prajwal Bhanu, **Chandrashekar, S.**, Deepak, T. S., Vaidya, G., Pradeep, S., Thimmappa, D. S., Shreevatsa, B., Jain, A. S., Dharmashekara, C., Kollur, S. P., & Shivamallu, C. (2022). Identifying the lead molecule from *Carica papaya* using computer-aided drug design technique against *Streptococcus pneumoniae*. *NeuroQuantology*, 20(7), 2505–2513. <https://doi.org/10.14704/nq.2022.20.7.NQ33324>
- 24) Shivalingaiah Thoyojaksha, Sai, M. R., Pradeep, S., Dugganaboyana, K., **Srinivasa Chandrashekar**, Kollur Shiva Prasad, & Shivamallu, C. (2022). *In silico* evaluation of anti-acne property of *Syzygium aromaticum*. *International Journal of Food and Nutritional Sciences*, 4577–4589.
- 25) Dharmashekara, C., Pradeep, S., Prasad, S. K., Jain, A. S., Syed, A., Kollur, S. P., Patil, S. S., Beelagi, M. S., **Srinivasa, C.**, & Shivamallu, C. (2021). Virtual

- screening of potential phyto-candidates as therapeutic leads against SARS-CoV-2 infection. *Environmental Challenges*, 4, 100136. <https://doi.org/10.1016/j.envc.2021.100136>
- 26) Anapalli Venkataravana, P., Santosh Kumar, S. R., Kuralayanapalya Puttahonnappa, S., Patil, S. S., Indrabalan, U. B., Sridevi, R., Santhebennur Jayappa, V., Kakkalameli, S. B., & **Srinivasa, C.** (2021). Regulated emergence of the African swine fever virus: B646L (p72) gene based Bayesian coalescent analysis. *International Journal of Life Science and Pharma Research*, 11(4), L1–L8. <http://dx.doi.org/10.22376/ijpbs/lpr.2021.11.4.L1-L8>
- 27) Daphedar, A. B., Kakkalameli, S. B., Melappa, G., Taranath, T. C., **Srinivasa, C.**, Shivamallu, C., Syed, A., Marraiki, N., Elgorban, A. M., Veerapur, R., Patil, S. S., & Kollur, S. P. (2021). Genotoxic assay of silver and zinc oxide nanoparticles synthesized by leaf extract of *Garcinia livingstonei* T. Anderson: A comparative study. *Pharmacognosy Magazine*, 17(Suppl), S114–S121. https://doi.org/10.4103/pm.pm_536_20
- 28) Beelagi, M. S., Bongale, M. M., Jain, A. S., Kollur, S. P., Patil, S. S., Mellappa, G., Dharmashekara, C., Ashwini, P., Triveni, R., Shivamallu, C., & **Srinivasa, C.** (2021). Molecular docking analysis of phytocompounds from *Acacia farnesiana* with protein targets linked to bronchitis. *Bioinformation*, 17(5), 557–567. <https://doi.org/10.6026/97320630017557>
- 29) Vinay, S., Dharmashekara, C., P, S., Jain, A. S., Kollur, S. P., S, B., **Srinivasa, C.**, Patil, S. S., Prasad, A., & Shivamallu, C. (2021). *In silico* elucidation of *Abrus precatorius* phytochemical against diabetes mellitus. *Bulletin of Environment, Pharmacology and Life Sciences*, 10(4), 118–128.
- 30) Beelagi, M. S., Patil, S. S., Santhosh Kumar, S. R., Prasad, A., Suresh, K. P., Kollur, S. P., Indrabalan, U. B., Santhebennur Jayappa, V., Kakkalameli, S. B., **Srinivasa, C.**, & Shivamallu, C. (2021). Synonymous codon usage pattern among the S, M, and L segments in Crimean-Congo hemorrhagic fever causing virus. *Bioinformation*, 17(4), 479–491. <https://doi.org/10.6026/97320630017479>

- 31) Kollur Prasad, Shivamallu, C., Gopinath, S., **Srinivasa, C.**, Dharmashekara, C., Sushma, P., Jain, A., & Ashwini, P. (2021). Schiff base ligands derived from 4-chloro-6-methylpyrimidin-2-amine: Chemical synthesis, bactericidal activity and molecular docking studies against targeted microbial pathogen. *International Journal of Health & Allied Sciences*, 10(2), 157–166.
- 32) Beelagi, M. S., Indrabalan, U. B., Patil, S. S., Suresh, K. P., Kollur, S. P., Prasad, A., **Srinivasa, C.**, & Shivamallu, C. (2021). Insight of codon usage bias and evolutionary rate among the genes C, E, prM and NS5 of the Kyasanur Forest Disease virus. *International Journal of Research in Pharmaceutical Sciences*, 12(3), 1–19. <https://doi.org/10.26452/ijrps.v12i3.4811>
- 33) Santosh Kumar, S. R., **Chandrashekar, S.**, Chandan, S., Kollur Shiva Prasad, & Krishna, V. (2021). Callus induction and shoot regeneration from the immature flower bud of *Caesalpinia bonducella* and its antileptospiral potential by *in vitro* and *in silico* analysis. *Pharmacognosy Magazine*, 17(Suppl), S38–S44.
- 34) Sridhara, P. B., Dharmashekara, C., **Srinivasa, C.**, Shivamallu, C., Kollur, S. P., Gopinath, S. M., et al. (2021). Isolation, characterization, and optimization of protease-producing bacterium *Bacillus thuringiensis* from paddy field soil. *Pharmacognosy Research*, 13(2), 89–95.
- 35) Kendaganna, P. H., Shruthi, G., Karunakar, P., Patil, S., Kollur, S. P., **Srinivasa, C.**, & Shivamallu, C. (2020). *In silico* study of ceftazidime and piperacillin against penicillin-binding protein 2, beta-lactamase (OXA-1 and SHV-28) of *Klebsiella pneumoniae* U25. *International Journal of Green Pharmacy*, 14(4), 403–414. <https://www.greenpharmacy.info/index.php/ijgp/article/viewFile/2978/1144>
- 36) Malligere Ankegowda, V., Kollur, S. P., Prasad, S. K., Pradeep, S., Dharmashekara, C., Jain, A. S., Prasad, A., **Srinivasa, C.**, Sridhara Setty, P. B., Gopinath, S. M., Prasad, S. R., Bahkali, A. H., Syed, A., & Shivamallu, C. (2020). Phyto-mediated synthesis of silver nanoparticles using *Terminalia chebula* fruit extract and evaluation of its cytotoxic and antimicrobial potential. *Molecules*, 25(21), 5042. <https://doi.org/10.3390/molecules25215042>

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- 38) Beelagi, M. S., Jain, A. S., Kollur, S. P., **Chandrashekar, S.**, Prasad, S. K., Malligere Ankegowda, V., & Shivamallu, C. (2020). Coronavirus disease (COVID-19) proteins and potential drugs: What we know so far [Review article]. *International Journal of Innovative Medicine and Health Science*, 12, 15–27.
- 39) Kollur Shiva Prasad, Prasad, S. K., Ansari, M. A., Alzohairy, M. A., Alomary, M. N., AlYahya, S., **Chandrashekar, S.**, Murali, M., Malligere Ankegowda, V., & Shivamallu, C. (2020). Tumoricidal and bactericidal properties of ZnONPs synthesized using *Cassia auriculata* leaf extract. *Biomolecules*, 10(7), 982. <https://doi.org/10.3390/biom10070982>
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- 41) Prasad, A., Shruthi, G., Sushma, P., Jain, A. S., Chandan, D., Nagendra Prasad, M. N., Kollur, S. P., **Chandrashekar, S.**, & Shivamallu, C. (2020). *Helicobacter pylori* infection: A bioinformatic approach. *International Journal of Pharmaceutical Sciences and Research*, 11(11), 1000–1015. [https://doi.org/10.13040/IJPSR.0975-8232.11\(11\).1000-15](https://doi.org/10.13040/IJPSR.0975-8232.11(11).1000-15)
- 42) Vinusha, H. M., Kollur, S. P., Ramu, R., Shirahatti, P. S., Nagendra Prasad, M. N., & Begum, M. (2020). Chemical synthesis, spectral characterization and biological investigations of novel triazole-based Schiff base ligand and its transition

- complexes. *Letters in Applied NanoBioScience*, 9(3), 1372–1388. <https://doi.org/10.33263/LIANBS93.13721388>
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- 44) Vinusha, H. M., Kollur, S. P., Revanasiddappa, H. D., Ramu, R., Shirahatti, P. S., Nagendra Prasad, M. N., **Chandrashekar, S.**, & Beguma, M. (2019). Preparation, spectral characterization and biological applications of Schiff base ligand and its transition metal complexes. *Results in Chemistry*, 1, 1–8. <https://doi.org/10.1016/j.rechem.2019.100012>
- 45) **Chandrashekar, S.**, Sowmya, K. K., Chandan, S., Shiva Prasad, K., Panduranga Murthy, G., & Shivalingaiah. (2019). Partial purification and characterization of laccase from *Pleurotus ostreatus*. *International Research Journal of Commerce, Arts and Science*, 11(1).
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Book chapters

1. Shuaib Pasha, Vijay Ramesh, Siddesh V Siddalingegowda, Anisha Jain, Chandan Dharmashekar, Shiva Prasad Kollur, Chandan Shivamallu, Sathyamurthy Srinivasa, **Chandrashekar Srinivasa**, Bhargav Shreevatsa, **2025**, Genomic and Transcriptomic Analysis in Neurobiology, Publisher: Eliva Press Global Ltd. part of Eliva Press , ISBN: 978-99993-3-206-4
2. Revanth HC, Shuaib Pasha, Shamanth D Harishkumar, Sathyamurthy Srinivasa, Shiva Prasad Kollur, Chandan Shivamallu, Meghashree Gangatikara, **Chandrashekar Srinivasa**, Bhargav Shreevatsa, **2025**, Ethical Considerations and Future Directions in Neuro Bioinformatics, Publisher: Eliva Press Global Ltd. part of Eliva Press, ISBN: 978-99993-3-206-4
3. .Sushma Pradeep, Bhargav Shreevatsa, **Chandrashekar Srinivasa**, Pruthvish Reddy, Anisha S Jain, Shiva Prasad Kollur, Mahesh KP, Chandan Shivamallu, Sharanagouda S Patil, 2024, Physiological and Molecular Effect of Nanoparticles on Plants, Publisher: Iterative International Publishers, ISBN: 978-93-6252-310-5
4. Sushma Pradeep, Bhargav Shreevatsa, **Chandrashekar Srinivasa**, Pruthvish Reddy, Anisha S Jain, Shiva Prasad Kollur, Chethan I A, Sharanagouda S Patil , Mahesh KP, Chandan Shivamallu, 2024, Improvement of Plant Resistance to Pathogens by Overexpressing PR-Proteins, Publisher: Iterative International Publishers, ISBN: 978-93-6252-310-5
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- Shivamallu, Sharanagouda S Patil, 2024, Nanomedicines/ Nano Drugs for the Treatment of Bacterial Diseases, Publisher: Iterative International Publishers, ISBN: 978-93-6252-310-5
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 7. Sowmya Kumar, **Chandrashekar Srinivasa**, Poojitha B Sridhara Setty, Shashanka K Prasad, Chandan Shivamallu, Shiva Prasad Kollur, 2023, Modulation Mechanism of Cellular Gene Expression by Nanoparticles, Published by SHINEEKS Publishers, ISBN: 978-1-63278-970-9
 8. **Chandrashekar Srinivasa**, Chandan S, Shivaprasad K and Umesha S, **2020**. Biochemical and Molecular studies on *Xanthomonas axonopodispv. vesicatoria* pathogenesis in tomato. Publisher: IJMRA Publications ISBN: 978-93-87176-81-2
 9. Chandan S, **Chandrashekar Srinivasa** and Shivaprasad K, **2020**. Molecular Diagnostics and Management of *Leptospira* Species November 2020 Publisher: IJMRA Publications ISBN: 978-93-87176-82-9.
 10. Shivaprasad K, Chandan S, **Chandrashekar Srinivasa**, and Revanasiddappa H. D. **2020**. Organic Ligands and Metal Coordination Compounds in Biological Applications Publisher: IJMRA Publications ISBN: 9789387176836
 11. **Chandrashekar Srinivasa**, G. C. Kavitha, M. Pallavi, Chandan Shivamallu, P. Sushma, Shiva Prasad Kollur, Mohammed Aiyaz, Arun Kumar Shukla, M. Murali, and Mohammad Azam Ansari Role of Viruses in Nanoparticles Synthesis. Microbial Nanotechnology: Green Synthesis and Applications, Springer Nature Singapore Pte. Pages: 103-121. Ltd. 2021 https://doi.org/10.1007/978-981-16-1923-6_6.
 12. M. Murali, Banu Naziya, S. Brijesh Singh, **Srinivasa Chandrashekar**, A. C. Udayashankar, and K. N. Amruthesh. Management of Plant Fungal Disease by Microbial Nanotechnology. Microbial Nanotechnology: Green Synthesis and Applications. Pages: 287-306. https://doi.org/10.1007/978-981-16-1923-6_14. ISBN 978-981-16-1922-9.

13. Ashwini Prasad, P. Sushma, Anisha S. Jain, M. N. Nagendra Prasad, Shiva Prasad Kollur, **S. Chandrashekar**, D Chandan and Chandan Shivamallu. Current approaches for diagnosis and treatment of *Helicobacter pylori*. Editor: Alexandra Curr, *New York: Nova Science Publishers, ISBN Number: 978-1-53618-115-9 (2020). P-97-114.*
14. N.K. Hemanth Kumar, M. Murali, H.V. Girish, **S. Chandrashekar**, N. Amruthesh, M.Y. Sreenivasa, Shobha Jagannath. *Impact of climate change on biodiversity and shift in major biomes. Global Climate Change, Elsevier publishers (In press, 2021) ISBN: 9780128229286. <https://doi.org/10.1016/B978-0-12-822928-6.00007>.*
15. **Chandrashekar Srinivasa**, Chandan Shivamallu, Kollur Shiva Prasad, Santosh Kumar Shimoga, Rajanna, P. Ashwini, and Murali Mahadevamurthy. Tracing Foodborne Pathogens Using Molecular-Based Approaches. Global Food Safety, Microbial Interventions and Molecular Advancements. Apple Academic Press, Inc. (2023) ISBN: 9781774910108. Pages: 159-190.
16. Santosh Kumar, Shimoga Rajanna, Naveen Kumar, Kudure Jayanna, Manoj Manjunath Bongale and **Chandrashekar Srinivasa**. Role of Foodborne Pathogens and Microorganisms in Food Safety. Global Food Safety, Microbial Interventions and Molecular Advancements. Apple Academic Press, Inc. (2023) ISBN: 9781774910108. Pages: 57-92.
17. Shiva Prasad Kollur, Anisha S Jain, Gayatri Vaidya, Poojitha B Sridara Setty, Shivalingaiah, Ashwini Prasad, Ravindra Veerapur, Veena Malligere Ankegowda, Asad Syed, Ali. H Bhakali, **Chandrashekar Srinivasa**, Sharanagouda Patil, Chandan Shivamallu. Drug Repurposing Approach for Non-Small Cell Lung Cancer Targeting MAPK Signaling Pathway. Eliva Press, 2021. ISBN: 9781636484167.
18. **Chandrashekar Srinivasa**, Shivamallu, C., Santhosh Kumar, S.R., Sushma, P., Kollur, S.P., Patel, Seema J. Patil, S.S., Suhas, R., Egbuna, C. and Tung, B.T. Medicinal Potentials of Phytochemicals as a Source of Drugs for the Treatment of Onchocerciasis (River Blindness). In Neglected Tropical Diseases and Phytochemicals in Drug Discovery (eds C. Egbuna, M. Akram and J.C. Ifemeje).

- John Wiley & Sons, Inc. 2021. Pages:283-298. ISBN:9781119616603
<https://doi.org/10.1002/9781119617143.ch11>
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<https://doi.org/10.1002/9781119617143.ch18>
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 21. H.M. Vinusha, Shiva Prasad Kollur, P. Sushma, Anisha Jain, Shashanka K. Prasad, Chandan Shivamallu, **Chandrashekar Srinivasa**, Chukwuebuka Egbuna and Kingsley C. Patrick-Iwuanyanwu. Potential drugs in SARS-CoV-2 treatment: key features and mechanisms of actions. Coronavirus Drug Discovery, Druggable Targets and In Silico Update. Volume-3 (Eds C. Egbuna). Elsevier Inc. 2022. Pages: 56-69. ISBN: 9780323955782
 22. **Chandrashekar Srinivasa**, Chandan Shivamallu, Sharadadevi Kallimani, P. Sushma, Shiva Prasad Kollur, Prabhurajeshwar and S.M. Gopinath. Application of molecular docking and dynamic tools in SARS-CoV-2 drug design: Ligand-protein interaction studies. Coronavirus Drug Discovery, Druggable Targets and In Silico Update. Volume-3 (Eds C. Egbuna). Elsevier Inc. 2022. Pages: 248-269. ISBN: 9780323955782
 23. Santosh Kumar Shimoga Rajanna, Madhuri Adiga, G. C. Kavitha, **Chandrashekar Srinivasa**, Santosh Joshi and Vijay Avin Balaji Ragunathrao. Biotechnology in Medicine: Advances-I. Fundamentals and Advances in Medical Biotechnology. (Eds C. Mumtaz Anwar, Riyaz Ahmad Rather, Zeenat Farooq). Springer 2022. Pages: 67-92. ISBN: 9783030985530. <https://doi.org/10.1007/978-3-030-98554-7>

24. Shiva Prasad Kollur, Gayatri Vaidya, Shivalingaiah, **Chandrashekar Srinivasa**, Ravindra Veerapur, Asad Syed, Ali H. Bahkali, Chandan Shivamallu. Amino-1,10-phenanthroline derived imine ligands and their tumoricidal potential: chemical preparation, structure and biological investigations. Recent Advances in Pharmaceutical Sciences (Volume 4). Innovare Academic Sciences Pvt Ltd. 2021. ISBN: 9788192828671
25. **Chandrashekar Srinivasa**, G. C. Kavitha, M. Pallavi, Chandan Shivamallu, P. Sushma, Shiva Prasad Kollur, Mohammed Aiyaz, Arun Kumar Shukla, M. Murali, and Mohammad Azam Ansar. Role of Viruses in Nanoparticles Synthesis. Microbial Nanotechnology: Green Synthesis and Applications. (Eds M. A. Ansari, Suriya Rehman). Springer 2021. Pages: 103-120. ISBN: 9789811619229
26. M. Murali, Banu Naziya, S. Brijesh Singh, **Srinivasa Chandrashekar**, A. C. Udayashankar, and K. N. Amruthesh. Management of Plant Fungal Disease by Microbial Nanotechnology. Microbial Nanotechnology: Green Synthesis and Applications. (Eds M. A. Ansari, Suriya Rehman). Springer 2021. Pages: 287-299. ISBN: 9789811619229
27. N.K. Hemanth Kumar, M. Murali, H.V. Girish, **Srinivasa Chandrashekar**, K.N. Amruthesh, M.Y. Sreenivasa and Shobha Jagannath. Impact of climate change on biodiversity and shift in major biomes. Global Climate Change. (Eds Suruchi Singh, Pradeep Singh, S. Rangabhashiyam, K K Srivastava). Elsevier 2021. Pages: 33-44. ISBN: 9780128229286
28. **Chandrashekar Srinivasa**, Chandan S, Shivaprasad K and Umesha S, 2020. Biochemical and Molecular studies on *Xanthomonas axonopodispv. vesicatoria* pathogenesis in tomato. Publisher: IJMRA Publications ISBN: 978-93-87176-81-0032

National and International Conferences:

- **Chandrashekar, S.** and Umesha, S. (2011). Development of PCR-SSCP technique to detect bacterial wilt pathogen of vegetables poster presented at World Congress on Biotechnology, organized by Omics group, from 21st-23rd march held at Hyderabad, India.

- **Chandrashekar, S.** and Umesha, S. (2014). Salicylic acid regulates the defense transcripts in tomato upon infection with *Xanthomonas perforans*. Poster presented at Indian Science Congress Association, Bangalore Chapter and Department of studies in Zoology, University of Mysore from 3 and 5th January held at University of Mysore, Mysore, India.
- **Chandrashekar, S.** and Umesha, S. (2012). Induction of anti-oxidant enzyme associated with bacterial spot pathogenesis in tomato. Poster presented at Eleventh all India conference on cytology and genetics, from 23-25th January held at Bangalore University, Bangalore, India (**Awarded as the Best Poster**).
- **Chandrasekhar, S.** and Umesha, S. (2012). Sensitive and specific detection of *Xanthomonas axonopodis* pv. *vesicatoria* by direct colony PCR Poster presented at National Conference on Biotechnology and society, from 19-20th April held at Kuvempu University, Shankaraghatta, India.
- **Chandrashekar, S.** and Umesha, S. (2010). Molecular characterization of *Ralstonia solanacearum* using Polymerase Chain Reaction-Single Strand Conformation Polymorphism Analysis poster presented at DR. Norman E. Borlaug Commemoration national conference on Plant Diversity and Plant Health, Organized by Department of Studies in Botany, University of Mysore, from 11th and 12th March held at Mysore, India.
- **Chandrashekar, S.** (2009). Participated in the National Symposium on “Integrated Approaches- In the Sustainable Management of Plant Diseases” Organized by University of Agricultural Sciences, Dharwad and Indian Society of Mycology and Plant Pathology Zonal Meet (South) and National Symposium, from 9th and 10th October held at Mysore, India.

Research Paper Presentation/ Chaired in Seminar:

- Research paper Presented at AICTE sponsored National Conference on Emerging Multi-disciplinary Trends in Biotechnology and Engineering: A future perspective held at Acharya Institute of Technology, Hesaraghatta Road, Bangalore, during 23rd and 24th August 2019.

- Paper presented on Role of Probiotics in Monitoring human health at Karnataka Viabhava, organized by Government of Karnataka, in association with various universities at Haveri, Karnataka from 17th to 19th January 2020.

Workshop and training programme:

- Participation in DBT sponsored training on Whole genome sequencing and annotation organized the Bioinformatics Centre, Indian Institute of Spices Research, Kozhikode, February 21st-25th, 2012.
- On-job Training at the Department of Plant Biotechnology, Govt. Biotech Park, Hulimavu, Bangalore. Duration: 5 days (June 12th -16th, 2006); Title: DNA Fingerprinting.
- Participation at the Mammalian Cell Culture Workshop at the Institute of Bioinformatics and Applied Biotechnology, IBAB, Whitefield, Bangalore under the guidance of Dr Yathindra and Dr. S Patole Duration: 4 days (01th February -04th, 2006).
- Participated in TEQIP III initiative International Workshop on “Embracing Industry 4.0 Revolution –Bioimaging Trends and Applications in Life Sciences, organized by Department of Biotechnology held at Jayachamrajendra College of Engineering, Mysuru from 23-25th October 2019.
- Participated in International Workshop on Borderless Biology: From Basics to Business organized by Division of Biochemistry, School of Life Sciences, JSS AHER, and Mysuru, held at JSS Academy of Higher Education and research, from 18th to 20th December 2019.
- Participated in National Training Programme on “The Issues and Policies related to GMOs/GM crops in India” sponsored by the Department of Science and Technology, Government of India, New Delhi and organized by Directorate of Research, GKVK, Bangalore from 9th to 13th December 2019.
- Completed Two weeks online workshop " Comprehensive e-Learning to e-Training guide for Administrative Work “conducted by MHRD, Govt of India, Pandit Madan

Mohan Malavia National Mission on Teachers and Teaching, from 25th May to 05th June 2020.

- Attended the E-workshop on “Structure Based Ligand Drug Design” Organized by Department of Pharmaceutical chemistry. JSS college of Pharmacy, Shivarathreshwara Nagar, Mysuru from 13th and 14th July 2020.
- Participated in Faculty Development Programme organized by Davangere University from Jan 6th to 13th 2020 at Davangere University, Davangere.
- Completed 4 weeks Orientation Program conducted by MHRD, Govt of India, Pandit Madan Mohan Malavia National Mission on Teachers and Teaching, from 4th June to 1st July 2020.
- Completed one week Faculty Development Programme on “Open-Source Tools for Research” from MHRD, Govt of India, Pandit Madan Mohan Malavia National Mission on Teachers and Teaching, from 8th June to 14th June 2020.
- Successfully Completed 12 weeks (Sep-Dec 2020) MOOC’S/FDP NPTEL Online certification Course.
- Successfully completed 2 weeks Refresher course on life sciences (01-15 sep 2021) conducted by MHRD, Govt of India, Pandit Madan Mohan Malavia National Mission on Teachers and Teaching.
- Participated in TEQIP III Initiative International Workshop on "Embracing Industry 4.0 Revolution – Bioimaging Trends and Applications in Life Sciences," Jayachamrajendra College of Engineering, Mysuru (October 23-25, 2019)
- Participated in International Workshop on "Borderless Biology: From Basics to Business," JSS Academy of Higher Education and Research, Mysuru (December 18-20, 2019)
- Participated in National Training Programme on "The Issues and Policies related to GMOs/GM crops in India," Directorate of Research, GKVK, Bangalore (December 9-13, 2019)

Online Certifications and Workshops (2020-2021)

- **Comprehensive e-Learning to e-Training guide for Administrative Work –** MHRD, Government of India, Pandit Madan Mohan Malavia National Mission on Teachers and Teaching (May 25 – June 5, 2020)

- **Structure Based Ligand Drug Design** – E-Workshop, JSS College of Pharmacy, Shivarathreeshwara Nagar, Mysuru (July 13-14, 2020)
- **Faculty Development Programme** – Davangere University (January 6-13, 2020)
- **Orientation Program** – MHRD, Government of India (June 4 – July 1, 2020)
- **Faculty Development Programme on "Open-Source Tools for Research"** – MHRD, Government of India (June 8-14, 2020)
- **NPTEL Online Certification Courses** – Successfully completed 12-week MOOC'S/FDP (September-December 2020)
- **Refresher Course on Life Sciences** – MHRD, Government of India (September 1-15, 2021)

Student Mentorship and Supervision

Ph.D. Research Scholars

1. **Yadunandan**– Expression and Elucidation of Lasso Peptides from *Xanthomonas perforans* and *Xanthomonas citri* and Their Potential Role in Inhibition of RNA Biosynthesis
2. **Prajwal Bhanu R B** – Isolation and characterization of potential probiotic strains from fermented banana pseudostem for therapeutic applications onwards
3. **Pradeep M** –To study anti-diabetic and pharmacological potential of biogenic nanoparticles: An in vivo and in silico approach.
4. **Bhagyashree O** – Evaluating the efficacy of *Anacardium occidentale* on dental biofilm forming cariogenic bacteria and its utilization in oral hygiene

Awards and Honors

1. **University Grant Commission (UGC) - Project Assistant** (2009-2012)
2. **UGC Ph.D. Research Fellow** (2013-January 2014)

3. **Best Poster Presentation Award** – Eleventh All India Conference on Cytology and Genetics, Bangalore University (January 23-25) – Presented research on cytogenetic analysis
4. **Best Research Publication Award** (2012-13) – Vision Group of Science and Technology, Department of Biotechnology and Science and Technology, Government of Karnataka
5. **Best Oral Presentation Award** – 7th International Conference on "Opportunities and Challenges in Agriculture, Environmental & Biosciences for Global Development (OCAEBGD-2022)" – October 29-31, 2022, Goa, India. Paper: "Evaluating the Codon usage metrics (TLCV) of Asian Countries"
6. **Presentation Certificate** – Same conference for paper on "Evaluating Evolutionary Codon Usage Metrics and Phylogeographic Reconstruction of Tomato yellow leaf curl virus (TYLCV) in Different Regions of Asian Countries"

Affiliations and Associations

- **Google Scholar Profile:** <https://scholar.google.co.in/citations?user=TYDrYk4AAAAJ&hl=en>
- **ResearchGate Profile:** <https://www.researchgate.net/profile/Chandrashekar-Srinivasa>
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Key Research Contributions

Research Domains

- **Molecular Diagnostics:** Developed PCR-SSCP based diagnostic assays for rapid pathogen identification and characterization
- **Nanotechnology:** Synthesized eco-friendly nanoparticles with diagnostic and therapeutic applications
- **Phytochemistry:** Conducted extensive bioprospecting of medicinal plants for bioactive compounds
- **Network Pharmacology:** Applied computational approaches for drug target identification and validation
- **Host-Pathogen Interactions:** Elucidated molecular mechanisms of plant defense responses against bacterial pathogens
- **Structural Biology:** Utilized molecular docking and in silico analysis for therapeutic compound discovery

Publication Impact

- Total citations: 200+ (h-index: Significant contribution to high-impact research)
- Average impact factor of publications: 3.2+
- Scopus and Web of Science indexed publications
- Collaborative research with national and international institutions