

Curriculum Vitae

Dr. H. S. Jayanth,
Professor, Department of Microbiology Yuvaraja's college
University of Mysore, Mysore – 570005
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hsjavanth@ycm.uni-mysore.ac.in
javanth_s@yahoo.com

EDUCATION

University of Mysore, Ph.D. in Microbiology, 2010
“Studies on the characterization and DNA based detection of Listeria species in dairy foods.”
Guide: Dr. M. C. Varadaraj, Dept. of Human Resource Development, CSIR-CFTRI, Mysore.

Mangalore University, M. Phil. In Biosciences, 1990
“Glycerol production by fermentation.”
Guide: Dr. N. G. Karanth, Dept. of Fermentation Technology and Bioengineering, CSIR-CFTRI, Mysore.

Gulbarga University, M. Sc. in Microbiology, 1988

Gulbarga University, B. Sc., 1986

SPECIALIZATION

Bacteriology, Bacterial Diversity, Food & Industrial Microbiology, Environmental Microbiology, Fermentation Technology and Chemical Biology

Orcid ID: 0000-0002-0869-521X

Research Gate ID: Jayanth Sunderraj Hampapura

EMPLOYMENT

Professor, Dept. of Microbiology, Yuvaraja's college, Mysore, November 2021 onwards

Associate Professor, Dept. of Microbiology, Yuvaraja's College, Mysore October 2009.

Selection Grade Lecturer, Dept. of Microbiology, Yuvaraja's College, Mysore October 2006 – October 2009

Senior Scale Lecturer, Dept. of Microbiology, Yuvaraja's College, Mysore October 2001 – October 2006

Lecturer, Dept. of Microbiology, Yuvaraja's College, Mysore October 1996 – October 2001

Temporary Lecturer, Dept. of Microbiology, Yuvaraja's College, Mysore 1989 – 1996 (included guest lecturing, and part-time lecturing)

PUBLICATIONS

Maheshwar, P. K. and **Jayanth, H. S.** (2016) “Microbiology as a tool for research and development – an overview.” Asian Journal of Microbiology, Biotechnology, and Environmental Sciences. 18, 1, 157-165 EM International. ISSN: 09723005 **IF: 0.11.**

Jayanth, H. S. and Varadaraj, M. C. (2017) “Survival of a native toxigenic isolate of *Listeria monocytogenes* CFR 1302 during storage of milk-based foods can be a potential cause of health risk.” **Food Science and Technology International**. 23, 426–436. SAGE Publications Ltd. England. ISSN NO: 10820132. **IF: 2.63,**

H.S. Nagendra Prasad., A.P. Ananda., S. Nanjundaswamy., S. Nagashree., L. Mallesha., B.P. Dayananda., **H.S. Jayanth.,** P. Mallu. (2021) Design, Synthesis, and Molecular Docking Studies of Novel Piperazine Metal Complexes as Potential Antibacterial Candidate against MRSA. **Journal of Molecular Structure** Elsevier Science Direct Netherlands ISSN: 0022-2860 online published: <https://doi.org/10.1016/j.molstruc.2021.130047> **Impact factor: 3.84**

Gurumallappa., R. R. Arun Renganathan., M. K. Hema., C. S. Karthik., Sandhya Rani., **H.S. Jayanth.,** M. Nethaji., P. Mallu., N. K. Lokanath., V.Ravishankar Rai. (2021) 4-Acetamido-3-nitrobenzoic acid - Structural, quantum chemical studies, ADMET and molecular docking studies of SARS-CoV2 .**Journal of Bimolecular Structure & Dynamics.** Taylor & Francis UK. ISSN: 0739-1102. **Published online: <https://doi.org/10.1080/07391102.2021.1889664> Impact factor: 5.24**

C.S.Karthik., M.H.Chethana., H.M.Manukumar., A.P.Ananda., S.Sandeep., S.Nagashree., L.Mallesha., P.Mallu., **H.S.Jayanth.,** B.P.Dayananda. (2021) Synthesis and characterization of chitosan silver nanoparticle decorated with benzodioxane coupled Piperazine as an effective anti-biofilm agent against MRSA: A validation of molecular docking and dynamics. **International Journal of Biological Macromolecules.** Elsevier Science direct Netherlands ISSN no: 01418130 Published online : <https://doi.org/10.1016/j.ijbiomac.2021.03.119> **Impact factor : 8.02**

Gurumallappa, Jayashankar Jayaprakash , Anand A. Puttaswamy, **Jayanth H. Sunderraj,** Puttaswamappa Mallu and Krishnamurthy N. Beeregowda. (2021) 4-(tert-butyl)-N,N-diethylbenzenesulfonamide: Structural, Absorption Distribution Metabolism Excretion Toxicity (ADMET) and Molecular docking studies. **Current Chemistry Letters**, 10(3), 329-336. Growing Science Canada ISSN no: 19277296 DOI: [5267/j.ccl.2021.3.004](https://doi.org/10.1016/j.ccl.2021.3.004), ISSN: 1927-7296 **Impact factor: 1.02**

H. S. Nagendra Prasad, A.P. Ananda, T.N. Lohith, P. Prabhuprasad, **H.S. Jayanth,** N.B. Krishnamurthy, M.A. Sridhar, L. Mallesha, P. Mallu (2021) Design, Synthesis, Molecular docking and DFT computational insight on the structure of Piperazine sulfynol derivatives as a new antibacterial contender against superbugs MRSA. **Journal of Molecular Structure** Elsevier Science Direct Netherlands ISSN: 0022-2860. <https://doi.org/10.1016/j.molstruc.2021.131333>. **Impact factor: 3.84**

ಹೆಚ್.ಎಸ್. ಜಯಂತ್ (2021) “ಮಾನವನ ಆರೋಗ್ಯ ಸ್ವಾಸ್ಥ್ಯದಲ್ಲಿ ಜೀರ್ಣಾಂಗ ವ್ಯೂಹದ ಸೂಕ್ಷ್ಮ ಜೀವಿಗಳ ಪಾತ್ರ”. ವಿಜ್ಞಾನ ಮಾಸಿಕ ಈ ಪತ್ರಿಕೆ. 2:2, 5-8. ಕರ್ನಾಟಕ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಪ್ರೋತ್ಸಾಹಕ ಸೊಸೈಟಿ. ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ಹಾಗೂ ಜೈವಿಕ ತಂತ್ರಜ್ಞಾನ ವಿಭಾಗ ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಬೆಂಗಳೂರು. Link: <https://ksteps.karnataka.gov.in/info-3/Vijnana+e-Magazine/en>

Jayanth H S and Varadaraj M C (2021) Behavior of Native Food Isolates of *Listeria monocytogenes* and *Listeria innocua* under the Influence of Selected Cultural Attributes and Heat and Cold Treatments. *Journal of Pure and Applied Microbiology* Link: <https://doi.org/10.22207/JPAM.15.4.44> **Impact factor: 0.8**

B Dinesh, N Monisha, Shalini H R, Prathap GK, Jagadeesh P, Manjula Shantaram, Jayanth S Hampapura, Chandrakant S. Karigar, Chandrashekhar G. Joshi (2021) Antibacterial Activity of Silver Nanoparticles Synthesized using Endophytic Fungus- *Penicillium cinnamopurpureum* *Spectroscopy letters.* Link : <https://doi.org/10.1080/00387010.2021.2010764> **Impact factor :1.3**

B Dinesh, M U Chethan, G K Prathap, P Jagadeesh , Manjula Shantaram., H S Jayanth, Chandrakant S Karigar, and Chandrashekar G Joshi (2021). Biogenic synthesis of silver nanoparticles using *Aspergillus aureoles* (endophyte) and Demonstration of their Antimicrobial Activity. *Analytical chemistry letters.* Link : <https://doi.org/10.1080/22297928.2021.2007789> **Impact factor: 2.26**

H S Nagendra Prasad , N P Gaonkar , A P Ananda, A Mukarambi , G C Kumar , T N Lohith, H S Jayanth , N B Krishnamurthy, M A Sridhar , P Mallu. (2022) Antibacterial Property of Schiff-based Piperazine against MRSA: Design, Synthesis, Molecular Docking, and DFT Computational Studies. *Letters in Applied NanoBiosciences.* 12, 2023, 54. ISSN: 2284-6808 online published on 21.03.2022 Link: <https://doi.org/10.33263/LIANBS122.054>

B.T.Harshitha, J. Jayashankar, A.P.Anand, S.Sandeep, H.S.Jayanth, C.S.Karthik, P.Mallu,N.Haraprasad, and N.B.Krishnamurthy, (2022) Structural and Functional Insights of Thiazole Derivatives as Potential Anti-inflammatory Candidate: A New Contender on Chronic and Acute SARS-CoV-2 Inflammation and Inhibition of SARS-CoV-2 Proteins. *Asian Journal of Chemistry*; Vol. 34, No. 8 (2022), 1893- 1920 doi link; <https://doi.org/10.14233/ajchem.2022.23673> **Impact Factor .0.535**

H.S. Nagendra Prasad , A.P. Ananda , S. Sumathi , K. Swathi , K.J. Rakesh , H.S. Jayanth, , P. Mallu(2022) Piperazine selenium nanoparticle (Pipe@SeNP's): A futuristic anticancer contender against MDA-MB-231 cancer cell line. *J. of Molecular Structure* 1268 (2022) 133683 Link: <https://doi.org/10.1016/j.molstruc.2022.133683> Impact factor: 3.83

Jayashankar J, Arun Renganathan R.R., Nanjundaswamy S, Karthik C.S, Sandeep S., Santhosh A.S., Jayanth H. S., Mallu, P,Haraprasad N, and Ravishankar Rai, V.(2022) Phytochemicals of Citrus Fruits: The in-silico Investigation against Sars-CoV-2 Proteins.(2022) *TRENDS IN SCIENCES*, 2023; 20(1): 3508 Published online 26 November 2022 Link: <https://doi.org/10.48048/tis.2023.3508> **Impact factor: 0.8**

Chandan Kumar Sahu, R. Rashmi, Jayanth S. Hampapura, Ravi-Kumar Kadeppagari,(2022) Chapter 17 - The antimicrobial activities of some selected polysaccharide nanocrystals and their hybrids: synthesis and applications, Editor(s): Shadpour Mallakpour, Chaudhery Mustansar Hussain, *In Micro and Nano Technologies, Industrial Applications of Nanocrystals*, Elsevier,, Pages 329-334,

ISBN 9780128240243

HR-LCMS assisted phytochemical screening of antioxidant, antibacterial activity of *Priva cordifolia* (L.f) Druce plant and molecular docking approach (2023) N.B. Krishnamurthy , A.P. Ananda , H.S. Nagendra Prasad , P. Prabhuprasad , N. Manju , C.S. Karthik , H.S. Jayanth , T.V. Logaraj , K.R. Savitha . Results in Chemistry 5 (2023) 100794 Elsevier Link: <https://doi.org/10.1016/j.rechem.2023.100794> **Impact factor : 2.3**

Sahu, C.K., Bayineni, V.K., Hampapura, J.S., C. M. Hussain, and R.-K. Kadeppagari. (2023) Characterization of 36-kDa Dimeric Methotrexate-degrading Enzyme from *Variovorax paradoxus*, its Performance and Stability of its Cross-linked Aggregates. *Appl Biochem Microbiol* **59**, 468–475 <https://doi.org/10.1134/S0003683823040129> **Impact factor-1.1**

INVITED TALKS

“Traditional and rapid detection of food borne bacteria.” Natl. Conference: Innovations in Ethnopharmacology, Recent Developments in Biological and Chemical Science for Societal Benefits. Sponsored by CSIR, UGC and DBT. Dept. of Zoology, Govt. Postgraduate College, Pithoragarh, Uttarakhand. March 1-3, 2013

“Public health significance of food borne bacterial pathogens.” Natl. Conference: Innovations in Ethnopharmacology, Recent Developments in Biological and Chemical Science for Societal Benefits. Sponsored by CSIR, UGC and DBT. Dept. of Zoology, Govt. Postgraduate College, Pithoragarh, Uttarakhand. March 1-3, 2013

Invited talk on “ Bacterial infections an overview” Prof. B.N. Dhawan Memorial Online National Lecture Series On Recent Developments in Health and Disease Organized by Dept. of Zoology, Pt. LMS Govt. P G College (Sri Dev Suman University Campus) On January 24, 2021. Rishikesh, Dehradun.

Invited talk on “Nanoparticles and its application in microbiology” in International conference on advanced materials held on 6th and 7th July 2021 held at JSS Science and Technology University Mysuru Karnataka. Certificate enclosed.

SEMINARS, CONFERENCES, AND SYMPOSIUMS

Presentations

“Behavioural pattern of *Listeria* spp. under different culture conditions” poster co-presented with M. C. Varadaraj. International Conference on “Microbial Diversity: Current Perspectives and Potential Applications.” Dept. of Microbiology, University of Delhi, South Campus, New Delhi. April 16-18, 2005

“Bioconversion of Starch to Glycerol- Fermentation Studies” paper co-presented with N. G. Karanth. International Conference on Non-linear analysis concerned to Biosciences and Fluid Mechanics. Gulbarga University, sponsored by UGC, CSIR and Indian Society of Biomechanics. August 29 - September 01, 1992

“Monitoring Reactor Biomass.” International Conference on Non-linear analysis concerned to Biosciences and Fluid Mechanics. Gulbarga University, sponsored by UGC, CSIR and Indian Society of Biomechanics. August 29 - September 01, 1992

Participation

Participated in the 62nd International Conference of Association of Microbiologists of India(AMI) September 21-23, 2022.

Participated in the 103rd Indian Science Congress at University of Mysore Mysuru January 3 to 7, 2016

“Value initiatives in institutions of higher learning key to youth empowerment.” – a programme of IQAC initiative. MLA College for Women, Disha Charitable Trust for Value Initiatives and VYAS University. February 03-04, 2015

7th Annual KSTA National Conference “Science, Technology and Productization: A means for growth.” Oxford College of Science, Bengaluru. February 05-06, 2015

National Seminar on “Statistical Methods and Data Analysis.” Yuvaraja’s College Mysore. September 26-27, 2014

State-level Seminar on “Recent Developments in Microbial Technology.” Dept. of Microbiology, JSS College for Women (Autonomous), Mysore. March 05-06, 2009

National Seminar on Bioinformatics. Yuvaraja’s College and Center for Information Science and Technology (CIST), University of Mysore. January 20-24, 2005

Regional Seminar on “Biodiversity for Food Security.” Yuvaraja’s College, Mysore, University of Mysore. June 24-25, 2005

State-level Seminar on “Frontiers of Science and Technology” at Yuvaraja’s College, University of Mysore. 2004

39th Annual Conference of the Association of Microbiologists of India “Opportunities in Microbiology” held at College of Fisheries, Indian Agricultural Research Institute, Mangalore. December 5-6, 1998.

MYCON 94 – International 35th Annual Conference of Association of Microbiologists of India at Defence Food Research Laboratory, Mysore. November 9-12, 1994.

REFRESHER COURSES AND TRAINING PROGRAMMES

Workshop on “Academic and Administrative Auditing.” Internal Quality Assurance Cell, Yuvaraja’s College, Mysore, 21 Jan 2020.

Training programme on “Molecular biology techniques in Microbiology.” Sponsored by Department of Biotechnology, Govt. of India, New Delhi at CSIR-CFTRI, Mysore. Mar 04-19, 2010

Refresher course in Biotechnology, “Current Trends in Molecular Biology.” Academic Staff College, University of Hyderabad, Hyderabad. Oct 4-24, 2006

Refresher course in Life Sciences, “Current Trends in Life Sciences.” Academic Staff College, UOM. Jan 05-26, 2006

Selected by Indian Academy of Sciences for a 15 days practical workshop on “Bacterial Genetics” at the Centre for Excellence in Functional Genomics, Dept. of Molecular Biology, School of Biological Sciences, Madurai Kamaraj University. Jan

27-Feb 10, 2003

Certificate course in “Educational Information Technology.” Center for Information Science and Technology (CIST), University of Mysore. Sep 01 2001 – Feb 02 2002

Refresher course in Life Sciences, “Current Trends in Molecular Biology.” Jawaharlal Nehru University, New Delhi. Jan 01-25, 2001

Selected and participated in the Indo-US workshop on “Application of Biotechnology for Environment and Energy (ABCEE).” National Institute of Advanced Studies, IISc Campus and Dept. of Microbiology, Bangalore University, Bangalore. August 05-08, 1998

Orientation Course for Science Teachers, Academic Staff College, UoM. Jun 10-Jul 04 1998

Short-term course on “Molecular Biology” conducted by the faculty of IISc Bangalore and sponsored by The Science Forum, Mahajana Education Society (Regd.), Mysore. Oct 20-30, 1992

DEPARTMENTAL SERVICE

Head, Department of Microbiology, Yuvaraja’s College, Mysore Apr 2022 onwards, Apr 2018 – Mar 2020; Mar 2012 – Mar 2014; Jan 2009 – Jan 2011

Chairman, Board of Studies, UG Microbiology, Yuvaraja’s College, Mysore April 2022 onwards, Apr 2018 Mar 2020; Mar 2012 – Mar 2014; Jan 2009 – Jan 2011

Chairman, Board of Examiners, UG Microbiology, Yuvaraja’s College, Mysore, 2021-22, 2019-20; 2017-18; 2015-16; 2012-13; 2010-11; 2008-09

Member, Board of Studies, UG Microbiology, Yuvaraja’s College, Mysore 2021-22, 2020-21, 2019-20, 2018-17, 2018-17, 2016-17; 2015-16; 2012-13; 2011-12; 2007-08; 2006-07

Member, Board of Examiners, UG Microbiology, Yuvaraja’s College, Mysore 2022-23, 2021-22, 2020-21, 2019-20, 2018-17, 2018-17, 2016-17; 2015-16; 2012-13; 2011-12; 2007-08; 2006-07

Design of new curricula and courses:

1. Curriculum frame of NEP -2020 was restructured within the frame work of NEP curriculum for first and third semester of our college.

2. Designed the CGPA-CBCS Curricula complete frame work of 2018-20 of Microbiology UG programme at Yuvaraja’s college.

3. Designed the first two semester’s curricula of new CBCS CGPA of department of microbiology Yuvaraja’s college of 2018-20.

4. Designed CBCS semester curricula of paper 5 and 6 of 2017-18.

5. Designed CGPA CBCS of DSC CBCS theory and practicals of second semester and Skill enhancement course (SEC) of fifth and sixth semester of JSS Women’s college in 2015

UNIVERSITY SERVICE

Nodal officer-Academics for NEP academics activities from December 2022 onwards.

Chairman Board of Studies in Microbiology (UG) Tumkur University Tumkur 2021-23.

Member Board of appointment of Examiners (BOAE) –UG Tumkur University 2022-24

Member Board of Studies in Microbiology (BOS)-UG Mysore University 2022-25,
External Board member, BOE in Microbiology, JSS Women's college (autonomous) Mysore.

Co- Coordinator IQAC committee of college from November 2022 onwards.

Member NAAC internal committee of college from November 2022 onwards

Coordinator, Student Mentoring Committee and Value-added Courses
Sep 2019 -22.

Member, Academic Council, Yuvaraja's College, Mysore
April 2022 onwards, Apr 2018 – Mar 2020; Apr 2016 – Mar 2018; Aug 2012 – Mar 2014; Jan 2009 – Jan 2011

Member, Board of Examiners, Dept. of Molecular Biology, Yuvaraja's College, Mysore 2019-20

Member, Choice Based Credit System Regulation and Implementation Committee, Yuvaraja's College, Mysore, 2019-20

Member, Science Forum, Yuvaraja's College, Mysore
2020-22, 2019-20; 2017-18; 2015-16

Member, Free Canteen Committee, Yuvaraja's College, Mysore
2021-22, 2019-20; 2017-18; 2016-17

Member, Green Audit Committee, Yuvaraja's College, Mysore
2019-20; 2017-18; 2016-17

Member, Protocol Committee, 6th Graduation Day, 2019

Member, Brain Storming Workshop, Scheduled Caste and Scheduled Tribe Special Cell, University of Mysore, Mysore
2019-20; 2018-19; 2017-18

Member, Yureka Cultural Committee, Yuvaraja's College, Mysore, 2018

As Convener, Science Forum, Yuvaraja's College, Mysore, 2016-17

- Organizer, Science Demonstration Programme by Prof. Bhagawan D. Chakradeo, Dept. of Physics, C. H. Mansukhani College, Mumbai.
- Organizer, National Science Day lecture by Dr. Ajish Abraham, Head, Dept. of Electronics, All India Institute of Speech and Hearing, Mysore.

Member, Admission Scrutiny Committee, Yuvaraja's College, Mysore, 2016-17

Member, Orientation Programme Committee, Yuvaraja's College, Mysore, 2016-17

Member, Career Guidance and Placement Cell, Yuvaraja's College, Mysore, 2016-17

Member, NSS Committee, Yuvaraja's College, Mysore, 2016-17

Stock Verification Officer, 2016-17 and 2014-15

Member, Board of Examiners, Dept. of Environmental Science, Yuvaraja's College, Mysore 2016-17; 2011-12

Chief Superintendent, MBA Examinations, University of Mysore

- Ramaiah Institute of Management Studies, Jun 2014; May 2012; Jan 2011
- Dayanand Sagar Business Academy, Jan 2014

Assistant Superintendent, UGC-NET Examinations, UOM, June 24 2012

Member, BOS UG Microbiology, University of Mysore 2004 – 2007

Organizer, Lab Experiment for "Networks and Industrial Clusters: Understanding Female Entrepreneurship in Karnataka," assisting Prof. Yuko Nukadio and Prof. Kenta Tanaka of Musashi University, Tokyo, and Dr. Jesim Pais, Director, Society for Social and Economic Research, New Delhi, at Yuvaraja's College, Mysore, 2019-20

PROFESSIONAL SERVICE

Examinations Paper Setter, UG Microbiology, JSS Women's College, Mysore 2020; 2019; 2018

Examinations Paper Setter, UG Microbiology, Davanagere University, Davanagere 2019

Practicals Examiner, JSS Women's College, Mysore 2021-22, 2019-20; 2018-19; 2017-18, 2016-17, 2015-16, 2014-15, 2013-14, 2012-13.

External Member, Board of Examiners, UG Biotechnology, Bangalore University, Bangalore 2018-19; 2016-17

Member, Board of Examiners, UG Microbiology, JSS Women's College, Mysore 2015-16; 2011-12

External Member, Board of Examiners, UG Microbiology, Bangalore University, Bangalore 2013-14; 2011-12; 2007-08

Member, Board of Studies, UG Microbiology, JSS Women's College, Mysore 2012-13; 2011-12

Member, Board of Studies, UG Microbiology, Bangalore University, Bangalore 2007-08; 2006-07; 2005-06

COMMUNITY SERVICE

Volunteer, Sri Ramana Maharshi Academy for the Blind, JP Nagar, Bangalore. Apart

from interacting with students, I have pledged finance for the education of a student.

Life member, Dignity Foundation: NGO for Senior Citizens, Bangalore

Member, Disha Charitable Trust, Mysore

Life Member, Adarsha Seva Kendra, Mysore

Team Member, Instant Food Preparation for Tsunami Survivors, CSIR-CFTRI, Mysore. 2005.

PROFESSIONAL MEMBERSHIPS

Life Member, Association of Microbiologists of India

Life Member, Society of Biological Chemists of India

Life Member, Association of Food Scientists and Technologists of India