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## S. Jagadeeswari

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### Education

- SET Life sciences from Mother Teresa Womens University in 2016
- Ph.D Microbiology from Bharathiyar University, Coimbatore in November 2014
- M.Phil Microbiology from Vinayaka Mission University, Salem with 72% in 2006
- M.Sc. Microbiology from National Facility for Marine Cyanobacteria, Department of Microbiology, Bharathidasan University, Thiruchirapalli with 67% in 1998
- B.Sc. Zoology from Auxilium College for Women, Vellore, University of Madras with 79.5% in 1996

### Technical Qualification:

- PGDMLT from Southern Institute of Medical Lab Technology, Saidapet, with 73% in December 2006
- Basic Medical Transcription Training Module from Insnet Services, Anna Salai, September 2004.

### Work Experience:

- Working as Assistant Professor in the P.G. & Research Department of Microbiology, D.G. Vaishnav College, Chennai – 600 106, from July 2008 to till date.
- Worked as Lecturer in the Department of Microbiology, Tagore College of Arts and Science, Chrompet, Chennai – 600 044, for the undergraduates from December 2005 to July 2008.
- Worked as Lecturer in the Department of Microbiology, Tagore College of Arts and Science, Chrompet, Chennai – 600 044, for the undergraduates from June 2000 to May 2002.

### Research Experience:

#### Academic Projects:

- **M.Sc.** - Male antifertility substance from *Oscillatoria willei* Bdu 130511 (Summer project)
- **M.Sc.** - Effect of the purified compound from *Oscillatoria willei* Bdu 130511 on the testis and accessory reproductive organs of Swiss albino mice.
- **M.Phil.** - Lipase production in *Aspergillus spp.* and strain improvement by mutation.
- **Ph.D.** - Production optimization, partial purification, physio-chemical evaluation and applications of extracellular chitinase from *Streptomyces* sp. SJKP9

### Research guidance:

- Guided 50 M.Sc., student projects and currently guiding four.
- Guided 3 M.Phil., student projects.
- Guiding 4 Ph.D., scholars (3 regular and 1 part time)

### Research Publications:

1. Microbial Phosphorus Solubilization and Its Role in Enhancing the Growth of *Vigna unguiculata*. December, 2021. Fundamentals on Plant and Soil Microbial Interactions (Theory and Practice). 102-113 . Editor: Dr. Pampi Ghosh. ISBN: 978-93-91681-08-1. Bharti Publications, New Delhi-110002 (India).
2. M.D. BalaKumaran , R. Ramachandran , P. Balashanmugam , **S.Jagadeeswari** & P.T. Kalaichelvan (2020): Comparative analysis of antifungal, antioxidant and cytotoxic activities of mycosynthesized silver nanoparticles and gold nanoparticles, Materials Technology, DOI: 10.1080/10667857.2020.1854518.
3. Mosachristas Kithiyon, Madhukumar, Balashanmugam Pannerselvam, **Jagadeeswari Sridharan**, Sandilya Sharma Balasubramaniyam, Tamil Selvi Alagumuthu. 2018. Efficacy of mycosynthesized AgNPs from *Earliella scabrosa* as an in vitro antibacterial and wound healing agent. IET Nanobiotechnology, 13(3): 1-6. doi: 10.1049/iet-nbt.2018.5237.
4. B. Kiran Sharma, M.D. Balakumaran, B. Kirthiga and **S. Jagadeeswari**. 2018. Screening, partial purification and characterization of antimicrobial compound from *Streptomyces rochei* SJKS1 isolated from the seashore soil of Dhanushkodi. International Journal of Pharmacy and Biological Sciences, 8(4): 518-528.
5. MD Bala Kumaran, R Santhi and S Jagadeeswari. 2017. Exploitation of agro industrial residues as a substrate for the biodegradable polymer production using polyhydroxybutyrate accumulating bacteria. The Pharma Innovation Journal, 6(11): 702-706.
6. MD Bala Kumaran, R Santhi and **S Jagadeeswari**. 2017. Exploitation of agro industrial residues as a substrate for the biodegradable polymer production using polyhydroxybutyrate accumulating bacteria. The Pharma Innovation Journal, 6(11): 702-706.
7. Kiran Sharma B,**S. Jagadeeswari** andB. Kirthiga. 2017. Isolation, characterization and purification of bacteriocin from *Lactobacillus* sp isolated from curd and its antibacterial activity. Food Microbiology & Food Safety Upcoming Changes, Technologies & Emerging Risks,(ISBN: 978-93-5055-312-1)18-33.
8. P. Vidya, Radhika Jevanand and **S. Jagadeeswari**. 2017. Food Microbiology & Food Safety Upcoming Changes, Technologies & Emerging Risks, ISBN: 978-93-5055-312-1. Apple Publishing International (P) Ltd.
9. **S. Jagadeeswari** and R. Santi. 2016. Optimization of Agrosidues for  $\alpha$ -Amylase Production by *Bacillus subtilis* PS03 and its Application in Detergent IndustryJournal of Academia and Industrial Research, 5(7): 109-113.
10. Balakumaran, M.D., R. Ramachandran, **S. Jagadeeswari**, and P.T. Kalaichelvan. 2016. In vitro biological properties and characterization of nanosilver coated cotton

- fabrics – An application for antimicrobial textile finishing. *International Biodeterioration & Biodegradation*, 107: 48-55.
11. W. Murphin Hipalasswini, M.D. Balakumaran and **S. Jagadeeswari**. 2016. Synthesis, Characterization and Antibacterial Activity of Chitosan Nanoparticles and its Impact on Seed Germination. *Journal of Academia and Industrial Research*, 5(5): 65-71.
  12. K. Nithya, P. Vidya, M. D. Balakumaran and **S. Jagadeeswari**. 2016. Screening of soil *Streptomyces* for the synthesis of silver nanoparticles and its antimicrobial property against selective pathogens. *Journal of Pharma Research*, 5(11): 229-233.
  13. **S. Jagadeeswari** and R. Santhi. 2016. Optimization of Agroresidues for  $\alpha$ -Amylase Production by *Bacillus subtilis* PS03 and its Application in Detergent Industry. *Journal of Academia and Industrial Research*, 5(7): 109-113.
  14. Sankary, H., **S. Jagadeeswari** and P. Vidya. 2015. Antimicrobial Activity of *Streptomyces halstedii*, an Endophytic *Streptomyces* and its Characterization Studies. *J. of Pharma Research*, 4(6): 232-236.
  15. **S. Jagadeeswari**, C.S.Shobana, P. Manikandan, and K. Panneer Selvam. 2015. Purification and characterization of chitinase from *Streptomyces* sp. SJKP9. *Wide Spectrum*, Vol. 3 (11): 5 – 16.
  16. **Sridharan Jagadeeswari**, Padmanabhan Vidya and Kanesan Panneer Selvam. 2015. Chitinases: Sources, Properties and Applications. *Application of Industrial Microbiology*, 61-86.
  17. Padmanabhan Vidya, Rasappan Santhi, Bharathidasan Kirthiga and **Sridharan Jagadeeswari**. 2015. Production of bio-ethanol from cellulosic wastes through microbial extracellular enzymatic hydrolysis and fermentation. *Application of Industrial Microbiology*, 11-18.
  18. R. Santhi and **S. Jagadeeswari**. 2015. Study of lead (II) biosorption using *Aspergillus niger* and its optimization studies *Int. J. Adv. Res. Biol.Sci.* 2(1): 102–108.
  19. Rajendran R., Abirami M., **Jagadeeswari S.**, and Prabhavathy P., 2014. Production, Optimization and partial purification of antimicrobial compound from *Streptomyces exfoliates*. *A journal of science and technology*, 2 (1):58 – 63.
  20. **Sridharan Jagadeeswari** and Kanesan Panneer Selvam 2013. Antagonistic activity of endophytic *Streptomyces* against *Fusarium oxysporum*. *Wide Spectrum* Vol. 2 (2): 50 – 57.
  21. **Sridharan Jagadeeswari**, Manickam Dakshinamoorthy Balakumaran, Padmanabhan Vidya, Pudupalayam Thangavelu Kalaichelvan, Kanesan Panneer Selvam 2012. Utilization of shrimp and crab wastes for the production of *N*-acetylglucosamine by chitinolytic soil *Streptomyces* sp. SJKP9. *Dynamic Biochemistry, Process Biotechnology and Molecular Biology* Vol. 6 (2): 46 – 48.
  22. **Sridharan Jagadeeswari** and Kanesan Panneer Selvam 2012. Optimization of chitinase production by soil *Streptomyces* sp. SJKP9. *J. Acad. Indus. Res.* Vol. 1(6): 332 – 336.
  23. Vidya P., Rajendran R., Vijayalakshmi S., **Jagadeeswari S.**, Jeyachandran S. and Manohar C., 2010. Occurrence and distribution of *Streptomyces* in soil, freshwater, marine and air. *J. Ecobiol.* **27(3)**: 249-254.

24. Vidya.P., S. Vijayalakshmi, Radhika Jevanand and S. Jagadeeswari. 2010. Enthralling endophytic *Streptomyces*. Amrutha Kumbam, Indian Herbal conference.
25. **Jagadeeswari S.**, P. Vidya, D.J. Mukesh Kumar and M.D. Balakumaran, 2010. Isolation and characterization of bacteriocin producing *Lactobacillus sp.* from traditional fermented foods. EJEAFChe, **9(3)**: 575-581.

#### **Membership in Professional Bodies**

- Life member Indian Association of Applied Microbiologists
- Life Member Microbiologists Society of India

#### **Conferences and Seminars Organized:**

- Has organized 1 national and 1 international conference, 2 national seminar and 3 workshops at the Post Graduate and Research Department of Microbiology, Dwaraka Doss Goverdhan Doss Vaishnav College.

#### **Papers/posters presented:**

- Has presented over 12 papers/ posters at various national and international conferences.

#### **Conferences and Seminars participated:**

- Has actively participated in more than 30 national and international seminars and conferences.

#### **Faculty Development Program**

- Three Day National Level Faculty Development Programme on 'Recent Trends In Artificial Intelligence And Impact On Teaching Professionals' conducted by School of Business Management, Rathnavel Subramaniam College of Arts & Science, Autonomous, Coimbatore 22.04.2020 to 24.04.2020.
- Online Faculty Development Program on - "Impact of COVID – 19 & Management of Personal Finances through this period" conducted by M.O.P. Vaishnav College, Chennai, 09.05.2020
- Online Faculty Development Programme on Higher Education Post Covid -Random Thoughts organized by Internal Quality Assurance Cell, Asan Memorial College of Arts & Science 11.05.2020.
- Online Faculty Development Programme On "Futuristic Perspectives Of Nanochemistry In Electrochemical Devices And Biomedical Applications" Conducted By Department Of Science And Humanities, R.M.D Engineering College, 11.05.2020 & 12.05.2020.
- Six days International Faculty Development Program on Novel Materials for Energy and Biomedical (Covid-19) Healthcare Application organized by Department of Science & Humanities, M.Kumarasamy College of Engineering (Autonomous), Karur, 11.05.2020 to 16.05.2020

- Faculty Development Program (FDP) on "Implementing 5S Methodology in the Prevention of Covid 19" Organized by Department of Business Administration, VeltechRangaSanku Arts College, Avadi, Chennai, 16.05.2020.
- Faculty Development Program on Innovative Strategies in Everyday Classroom Teaching / Learning of Languages conducted by Bharathiar University Arts and Science College, Pollachi, 16.05.2020.
- Seven-day National Virtual FDP on “INCESSANT UPGRADATION – HALLMARK OF A GOOD TEACHER” organized by the IQAC, Shri Krishnaswamy College for Women, Chennai – 40 from 22.06.2021 to 28.06.2021.
- Five-day FDP on Science, Technology, Engineering and Mathematics (STEM) organized by REVA university, Bangalore during 16 to 19 & 23.8.2021.
- Three Day Faculty Development Programme on “Challenges in Microbiological Invention and Intellectual Property Rights” organized by the Department of Microbiology, Ayya Nadar Janaki Ammal College, Sivakasi in association with the IQAC from 23.09.21 to 25.09.21 under UGC PARAMARSH Scheme.
- Three days Online Workshop on “MOLECULAR DOCKING”, Organized by the Department of Bioinformatics, Nirmala College for Women, Coimbatore -641018 during 20th Dec, 2021 to 22nd Dec, 2021.