

Bio-Data

Dr. Sowmya H. V. M.Sc., Ph.D.

Present Address

Dept. of P.G. Studies and Research in
Microbiology
Kuvempu University
Jnanasahyadri, Shankaraghatta - 577 451
Shivamogga, Karnataka, INDIA.

Mobile No.: +91 8762902224
+91 8762219091
E-mail: sowmya.hv@gmail.com

Date of Birth : 20th May 1983

Nationality : Indian

EDUCATION PROFILE :

Examination Passed	Subjects	Year	Result
K-SET	KEA, Govt. of Karnataka, Bangalore.	2024	Eligible
Ph.D.	<i>Isolation, Screening and Characterization of Polyethylene Degrading Microorganisms</i>	2014	Awarded
M.Sc.,	Microbiology	2006	I Class
B.Sc.,	Chemistry, Botany, Zoology	2004	I Class
S.S.L.C.	Kannada, English, Hindi, Maths, Science, Social		

ACADEMIC EXPERIENCE :

Area of Specialization in Research : Environmental Microbiology, Mycology and Plant Pathology and Bioprospecting

Research Experience : Five Years

1. Research Guidance for M.Sc., Students
2. Conducted an extensive investigation for **Ph.D. Thesis** on the topic "*Isolation, Screening and Characterization of Polyethylene Degrading Microorganisms*" under the guidance of **Dr. Ramalingappa**, Associate Professor, Department of P.G. Studies and Research in Microbiology, Davanagere University and Co-Guidance of **Dr. M. Krishnappa**, Professor, Department of P.G. Studies and Research in Applied Botany, Kuvempu University science from **2009 to 2014**.
3. **M.Sc., dissertation** – Design and Development of Vaccines Against *Helicobacter Pylori*

Awards and Recognition:

1. **Fellow Member** of International Society of Biotechnology, **Madhya Pradesh.**
2. **Thomas Edison Award-2014** for Best Research Paper
3. **Junior Research Fellowship (JRF):** During the period of 2010 to 2012 by Rajiv Gandhi National Fellowship (UGC, New Delhi) for Ph.D. Programme.
4. **Senior Research Fellowship (SRF):** During the period 2012 Rajiv Gandhi National Fellowship (UGC, New Delhi) for Ph.D. Programme.

Teaching Experience : 07 years

2006 to 2007: Worked as Guest faculty in the Department of Microbiology, Kuvempu University, Post Graduation Centre, Shivagangothri, Davangere from 2006 to 2007.

2007 to 2009: Worked as Guest faculty in the Department of Microbiology, Kuvempu University, Shankaraghatta, Shimoga from 2007 to 2009.

2019 to till date: Working as Guest faculty in the Department of Microbiology, Kuvempu University, Shankaraghatta, Shimoga.

Served as subject expert in the regular practical examinations conducted by Department of Microbiology, Kuvempu University.

Research Papers Published in National and International Journals:

1. G. Nandish., S. Akarsh, D. Manjunatha, H. V. Sowmya, and B. Thippeswamy B. **2024.** Bioprospecting of Polyhydroxy butyrate (PHB) from *Bacillus thuringiensis* KUMBNGBT-41 by using Agro-industrial wastes. *Research Journal of Biotechnology*, **19(4):74-82 (Scopus) DOI: 10.25303/1904rjbt074082.**
2. Nandish, G., Akarsh.S., Manjunatha D., Sowmya H V., and Thippeswamy B. **2024.** Bioprospecting of Polyhydroxy butyrate (PHB) from *Bacillus thuringiensis* KUMBNGBT-41 by using Agro-industrial wastes. *Research Journal of Biotechnology*, **19(4):74-82 (Scopus) DOI: 10.25303/1904rjbt074082.**
3. Prapthi U. B., Akarsh S., Somashekar D., Sowmya H. V., and **Thippeswamy Basaiah. 2024.** Diversity of Fungal infections and Histopathological preparations of some economically important Fresh Water Fishes in Bhadra Reservoir Project,

- Karnataka, INDIA. *Research Journal of Biotechnology*, 19(1):59-70. (Scopus)
DOI: 10.25303/1901rjbt059070.
4. Prapthi U. B., Somashekar D. S., Akarsh S., Sowmya H. V., Dhananjaya S. G., and **Thippeswamy Basaiah**. 2023. Optimization of Growth Condition for Aquatic Fungi (*Saprolegnia* species) Isolated from Economically Important Freshwater Fishes. *Uttar Pradesh Journal of Zoology*, 44(22):94-101. ISSN: 0256-971X (P).
 5. Amitha Ganapathy Bottangada., Akarsh Subhakar., Sowmya Hirakannavar Veeranna., and **Thippeswamy Basaiah**. 2023. Biosynthesis of Zinc Oxide Nanoparticles from Soil Fungi and their Characterization by Using Analytical Methods. *Asian Journal of Biological and Life Sciences*, 12(2):263-270. DOI: 10.5530/ajbls.2023.12.36
 6. J. Prakash., D. Manjunatha., S. Akarsh., G. Nandish., V. Jyothi., H.V. Sowmya and **B. Thippeswamy**. 2023. Isolation and Pathogenicity evaluation for causal agent of Panama Wilt in Banana. *Journal of Mycopathological Research (Indian Mycological Society)*, 61(3):343-348. ISSN0971-3719(Print), 2583-6315 (Online). (Web of Science). DOI: 10.57023/JMycR.61.3.2023.343
 7. Manjunatha Dadayya., Akarsh Subhakar., Nandish Gurubasajar., Megha Gowri Thippeswamy., Sowmya Hirakannavar Veeranna and **Thippeswamy Basaiah**. 2023. Bioactive Secondary Metabolites of Endophytic fungus *Alternaria brassicae* (KUMBMDBT-29) from *Phoenix sylvestris*. *Bulletin of Environment, Pharmacology and Life Sciences*, 12(6):120-125. ISSN 2277-1808. (Web of Science).
 8. Manjunatha Dadayya., Megha Gowri Thippeswamy., Nagaraju Shivaiah., Sowmya Hirakannavar Veeranna., Nandish Gurubasajar., Akarsh Subhakar., **Thippeswamy Basaiah**. 2023. Biological Potential of Silver Nanoparticles Synthesized by an Endophytic Fungus *Metapochonia suchlasporia*-KUMBMDBT-23. *BioNanoScience (Springer Nature)*. 1-27. [ISSN No. 21911630, 21911649]. Scopus. IF: 2.7. SJR-Q3:0.5 <http://doi.org/10.1007/s12668-023-01177-z>.
 9. Prapthi U.B., Sowmya, H.V., Dhananjaya, S.G., Akarsh S., Vijaya Kumara and **Thippeswamy Basaiah**. 2023. Influence of Physico-chemical Parameters on Mycoflora of Fish Pond in Bhadra Reservoir Project at Shivamogga district, Karnataka, India. *Biological Forum – An International Journal*, 15(6): 399-407. [ISSN No. (Print): 0975-1130; ISSN No. (Online): 2249-3239]. UGC-CARE Journal and IF 5.11 (NAAS).
 10. Manjunath Dadayya., Akarsh Subhakar., Nandish, Gurubasajar., Megha Gowri Tippleswamy., Sowmya Hirakannavar Veeranna., and **Thippeswamy Basaiah**. 2023. Green Synthesis of Silver Nanoparticles from Endophytic Fungus

Alternaria carthami- KUMBMDBT-30. *Asian Journal of Biological and Life Sciences*, 12(1):192-197. DOI:10.5530/ajbls.2023.12.26.

11. Nandish, G., Akarsh.S., Manjunatha D., Sowmya H V., and **Thippeswamy B.** **2023.** Utilization of agro-industrial wastes as raw materials for the biosynthesis of polyhydroxy butyrate biopolymer from *Bacillus paramycoides* strain KUMBNGBT-33. *Journal of Applied Biology and Biotechnology*. 11(4):178-184. CrossMark. DOI: 10.7324/JABB.2023.11514. **IF 1.06**
12. Dadayya Manjunath., Gowri Thippeswamy Megha., Shivaiah Nagaraju., Subhakar Akarsh., Gurubasajar Nandish., Hirakannavar Veerana Sowmya and **Basaiah Thippeswamy.** **2023.** Eco-friendly synthesized silver nanoparticles from endophytic fungus *Phyllosticta owaniana*: KUMBMDBT-32 and evaluation of biomedical properties. *Archives of Microbiology, (Springer Nature)*. **205 (217): 1-23. IF-2.729, SJR- Q2: 0.54.** <https://doi.org/10.1007/s00203-023-03549-1>.
13. Nandish, G., Akarsh.S., Manjunatha D., Sowmya H V., and **Thippeswamy B.** **2023.** Production and characterization of polyhydroxybutyrate using *Acromobacter kerstersii* KUMBNGBT-36 Isolated from dump yard soil sample. *BioGecko*. 12(02): 613-625.
14. Jyothi., V., S. Akarsh., H. V. Sowmya and **Basaiah Thippeswamy., 2023.** Phosphate solubilization and screening for biosynthesis of silver nanoparticles by *Aspergillus awamori* isolated from rhizosphere soil of medicinal plant *Coleus aromaticus*. *Journal of Food, Agriculture & Environment*. 20(3&4): 105-112. Online ISSN: 1459-0263
Print ISSN: 1459-0255. **IF.1.147.**
15. Venkataramanaiah Jyothi, Hirakannavar Veeranna Sowmya and **Basaiah Thippeswamy, 2020.** Siderophore Production by Phosphate Solubilizing Fungi from Rhizospheric Soil of Medicinal Plants. *International Journal of Biology and Biotechnology*. 13(3):599-606. (ISSN:1810-2719). **IF: 0.27. UGC Care list. Web of science.**
16. **Sowmya, H. V.,** Ramalingappa., Nayanashree G., B. Thippeswamy, and M. Krishnappa. 2015. Polyethylene degradation by fungal consortium. *International journal of environmental research*. 9 (3): 823-830
17. **H.V. Sowmya** Ramalingappa., M. Krishnappa and B. Thippeswamy, **2014.** Degradation of polyethylene by *Penicillium simplicissimum* isolated from local dumpsite of Shivamogga district *Environment Development Sustainability*. 1-15. DOI 10.1007/s10668-014-9571-4. (ISSN: 1387-585X (**Springer**)).
18. **H.V. Sowmya** Ramalingappa., M. Krishnappa and B. Thippeswamy, **2014.** Degradation of polyethylene by *Trichoderma harzianum* – SEM, FTIR and NMR

analyses. *Environment Monitoring Assessment*. 186 : 6577-6586. DOI 10.1007/s10661-014-3875-6. (ISSN: 0167-6369 (Springer)).

19. **Sowmya H.V.**, Ramalingappa., Krishnappa, M. and **Thippeswamy, B. 2014.** Low density polyethylene degrading fungi isolated from local dumpsite of Shivamogga district. *International Journal of Biological Research*. 2(2) : 39-43. (ISSN: 2307-9029).
20. **Sowmya H.V.**, Ramalingappa., Krishnappa, M. and Thippeswamy, B. 2014. Biodegradation of Polyethylene by *Bacillus cereus*. *Advances in Polymer Science and Technology: An International Journal*, 4(2): 28-32. (ISSN: 2277 – 7164).
21. **Sowmya H.V.**, Ramalingappa., Krishnappa M and Thippeswamy B., 2014. Degradation of polyethylene subjected to different treatment by *Pseudomonas aeruginosa*. *Journal of Bioprocess Technology*. Photon 100 (2014) 433-443. (Impact Index: 3.94, ISJN: 6383-4392). (Received Thomas Edison Award-2014).
22. **Sowmya H. V.**, Ramalingappa and Krishnappa, M. 2012. Degradation of polyethylene by *Trichoderma* sp. and *Aspergillus nidulans*. *International Journal of Current Research*, 04 (10): 48-52. (Impact factor-1.125, ISSN: 0975-833X).
23. **Sowmya, H. V.**, Ramalingappa and Krishnappa, M. 2012. Degradation of polyethylene by *Chaetomium* sp. and *Aspergillus flavus*. *International Journal of Recent Scientific Research*, 03 (06): 513-517. (ISSN: 0976-3031, Impact Factor: 0.271)
24. B. Thippeswamy, **Sowmya H.V.** and M. Krishnappa. 2011. Seed borne fungi of vegetable crops in Karnataka. *J. Pl.Dis. Sci.* 6 (1): 5-10. (ISSN: 0973-7456).
25. B. Thippeswamy, **Sowmya H.V.** Ramalingappa and M. Krishnappa. 2011. Location and Transmission of *Macrophomina phaseolina*, *Alternaria alternata* in Okra. *Internat. J. of Pl. Protec*, 4(1): 23-26. (ISSN: 0976-6855).
26. B. Thippeswamy, **Sowmya H.V.** and M. Krishnappa. 2010. Pathogenicity and Management of Early blight and Wilt in Tomato caused by *Alternaria solani* and *Fusarium oxysporum*. *Asian Jr. of Microbiol, Biotech, Env. Sci.*, 12(4): 739-744. . (ISSN: 0972-3005).

WORKSHOP PARTICIPATED :

Diagnostic Microbiology on 21st and 22nd November 2005, held at Department of Microbiology, Kuvempu University, Post Graduation Centre, Shivagangothri, Davangere.

Conference, Seminar and Symposium Participated and Presented the research work

1. **Current Topics in Microbiology**, Seminar held at Dept. of Microbiology, Kuvempu University, Davangere, 28th to 29th January **2005**.
2. **Advances in Biochemistry, Biotechnology and Nanotechnology-Science** for 21st Century, National Level Seminar held at the Department of Biochemistry and Food Technology, Kuvempu University, Davangere, 13th to 14th November **2006**.
3. Participated in three days National Seminar on “**New Frontiers in Plant Pathology**” organized by Department of P.G. Studies and Research in Applied Botany, Jnana Sahyadri, Shankaraghatta during 28th and 30th September **2006**.
4. **Medical Microbiology**, Seminar held at Dept. of Microbiology, Kuvempu University, Davangere, 11th to 12th October **2006**.
5. Participated in two days National Seminar on “**Advances in Biochemistry, Biotechnology and Nanotechnology-Science for 21st Century**” organized by Department of Biochemistry and Food Technology, P.G. Centre, Shivagangotri, Davangere during 13th and 14th November **2006**.
6. **Molecular Microbiology**, Seminar held at Dept. of Microbiology, Kuvempu University, Davangere, 2nd to 3rd May **2007**.
7. **Biotechnology- Current Trends and future Scenario**, National level Seminar held at Dept. of biotechnology, Kuvempu University, Shankaraghatta, 10th to 11th March **2008**.
8. **Biotechnological Strategies for Biodiversity Conservation**, National Level Seminar held at Dept. of Microbiology, Kuvempu University, Shankaraghatta, 13th to 15th March **2008**.
9. Participated in the DBT & UGC sponsored – Two days National Seminar on “**Recent Advances and Challenges in Biochemistry and Biotechnology-2009**” organized by Department of Studies and Research in Biochemistry, Jnanasahyadri, Kuvempu University, Shankaraghatta on 1st and 2nd April-**2009**.
10. Participated in XXXII All India Botanical Conference and International Symposium on “**Diversity of Plants and Microbes: Present scenario**” organized by Department of P.G. Studies and research in Applied Botany, Kuvempu university, Shankaraghatta on 28-30th December **2009**.
11. Participated Two days national Seminar on “**Impact of Microbes on Health**” organized by Dept. of P.G. Studies and Research in Microbiology, Jnanasahyadri, Kuvempu University, Shankaraghatta- 577 451, during 27th and 28th February-**2010**.

12. Participated one day Seminar on “**Recent Advances in Microbiology**” organized by Dept. of P.G. Studies and Research in Microbiology, Sahyadri Science College (A), Kuvempu University, Shivamogga on 19th March- **2010**.
13. Participated one day National Seminar on “**Wildlife Lovers Meet**” organized by Westernghats Task Force in Karnataka, Bhadravathi Forest division and Dept. of Environmental Science, Kuvempu University, Shankaraghatta- 577 451, Shivamogga on 10th July- **2010**.
14. Participated in 2 days National Seminar on “**Global Climate Change: Perspectives and Challenges**” organized by Department of P.G. Studies and research in Environmental Science, Kuvempu University, Jnana Sahyadri, Shankaraghatta on 23rd and 24th March **2011**.
15. Participated in 2 days National Seminar on “**Present Scenario of Microbial Life**” organized by Department of P.G. Studies and Research in Microbiology, Jnana Sahyadri, Shankaraghatta during 28th and 29th March **2011**.
16. Participated in 2 days National Seminar on “**Challenges in Malaria and Other Infectious Disease Research**” organized by Department of P.G. Studies and Research in Biochemistry, Jnana Sahyadri, Shankaraghatta during 3rd and 4th May **2011**.
17. Participated in National Seminar on “**Role of Microbes: Past, Present & Future**” organized by Dept. of P.G. Studies and Research in Microbiology, Jnanasahyadri, Kuvempu University, Shankaraghatta- 577 451, during 28th and 29th **March, 2012**.
18. Participated in National Seminar on “**Progress in Biomedical Research and Its Impact on Human Health** ” organized by Dept. of P.G. Studies and Research in Biochemistry, Jnanasahyadri, Kuvempu University, Shankaraghatta- 577 451, during 2nd and 3rd **April, 2012**.
19. Participated in National Conference on “**New Frontiers in Animal Science**” organized by Dept. of Applied Zoology, Kuvempu University, Jnanasahyadri, Shankaraghatta, Shivamogga, from April, 9th and 10th, **2012**.

Techniques Familiar with:

- a. Isolation and pure culture maintenance.
- b. Electrophoretic and Chromatographic Techniques.
- c. Qualitative and Quantitative estimations of Biomolecules.
- d. Handling all microbiological techniques especially related to industrial microbiology and biotechnology.
- e. Screening biocontrol agents for metabolite production using biological assays.
- f. Medical Microbiology and immunological tests.

Other Skills / Information:

Languages known: Kannada, English and Hindi.

Hobbies: Reading books, Drawing, and Listening music.

Computer Proficiency: Diploma in Microsoft Office form Datapro Infoworld Ltd., Computer education division, Pune. MS-Office, data analysis and presentation, handling databases related to Life science.

Science related and cultural activities:

1. Participated in “**Kuvempu University Silver Jubilee Science Exhibition-2012**” (Silver Jubilee Celebrations-2012) organized by Committee for Popularization of Science Education, Kuvempu University, Jnanasahyadri, Shankaraghatta-577 451. at the University Campus during 16th - 19th February-**2012**.
2. Served as active member for models preparation in **Science exhibition** arranged for public and students of Davangere. Which was organized by Department of Microbiology, Kuvempu University, Post Graduation Centre, Shivagangothri, Davangere on 29th to 31st January 2005.
3. Worked as volunteer and attended camp in National Service Scheme, Kuvempu University organized by D.R.M science college, Davangere during 2002-2004.

I hereby declare that all the statements made above are true, complete and correct to the best of my knowledge.

Date:

Place:

(Sowmya H. V.)