

Bio-Data

Dr. Sowmya H. V.

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Date of Birth : 20th May 1983

Nationality : Indian

EDUCATION PROFILE :

Examination Passed	Subjects	Year	Result
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
PUC	Physics, Chemistry, Mathematics, Biology, English, Hindi.	2000	Pass
S.S.L.C.	Punjabi, English, Hindi, Maths, Science, Social	1998	Pass

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*”.

Teaching Experience : 04 Years

2019 to 2020: Worked as Guest faculty in the Department of Microbiology, Kuvempu University, Shankaraghatta, Shivamogga.

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

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

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

Awards and Recognition:

- 1. Fellow Member** of International Society of Biotechnology, **Madhya Pradesh.**
- 2. Thomas Edison award** on 25th March 2014 instituted by The Journal of Bioprocess Technology – Photon Foundation for the publication of best paper entitled “Degradation of polyethylene subjected to different treatment by *Pseudomonas aeruginosa*”.
- 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 to 2014** by Rajiv Gandhi National Fellowship (UGC, New Delhi) for Ph.D. Programme.

Research Papers Published in National and International Journals :

1. Jyothi, V., **Sowmya, H. V.** and Thippeswamy, B., 2020, “Siderophore production by Phosphate Solubilizing Fungi from Rhizosphere soil of Medicinal plants, *International Journal of Biology and Biotechnology*, **Scopus (RG Journal Impact: 0.48) (ISSN – 1810-2719), (Accepted). UGC care list.**
2. **Sowmya H.V.,** Ramalingappa., Nayanashree, G., Thippeswamy, B. and Krishnappa, M. **2015.** Polyethylene Degradation by Fungal Consortium. *International Journal of Environmental Research.* 9(3):823-830. **(ISSN: 1735-6865)**
3. **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 and Sustainability.* 1-15. DOI 10.1007/s10668-014-9571-4. **(ISSN: 1387-585X (Springer).**

4. **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).
5. **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).
6. **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).
7. **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).
8. **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).
9. **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)
10. **Sowmya, H. V.**, Ramalingappa and Krishnappa, M. 2012. Degradation of polyethylene by *Penicillium* sp. and *Aspergillus niger*. *Kuvempu University Science Journal*, (04): 63-72. (ISSN: 2277-9523, Impact Factor: 0.271)
11. 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).
12. 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).
13. 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 :

1. Participated in "**Research Methodology**" organized by Scheduled Caste and Scheduled Tribe Development Cell, Kuvempu University, Shankaraghatta held on 27th March **2019**.
2. **Diagnostic Microbiology** on 21st and 22nd November 2005, held at Department of Microbiology, Kuvempu University, Post Graduation Centre, Shivagangothri, Davangere.

Participated and Presented Research papers in the Conference, Seminar and Symposium :

1. Participated in Live Webinar on "Microbiome: Listen to your gut" organized by Special Interest Group on 'Placental Microbiome and Factors Affecting it', Dept. of Water and Health-Faculty of Life Sciences, JSS Academy of Higher Education and Research, Mysuru, on 15th July 2020.
2. Participated in National Level Web Conference on " Wildlife Conservation-Trends and Future Strategies" organized by Dept. of PG studies and Research in Wildlife and Management, Kuvempu University during 14th and 15th July, 2020.
3. Participated in International Webinar on "Impact of Novel Corona Virus Around the Globe and Future of Higher Education" organized by, Govt. Digvijay Autonomous P.G. College, Rajnandangaon, Chattisgarh, India on 18th July 2020.
4. Presented & Participated on "Comparison of polyethylene degradation by *Trichoderma harzianum*, *Penicillium simplicissimum* and by their combination" in National Conference on "**Innovative Microbial Trends and Challenges in the Environment (IMTCE-2020)**" in the Dept. of Microbiology, Kuvempu University, during March 02nd **2020**.
5. Presented & Participated on "Comparison of polyethylene degradation by *Trichoderma harzianum*, *Penicillium simplicissimum* and by their combination" in National Conference on "**Phytochemicals and Microbial bioactive compounds-Role in agriculture and Human Welfare (PMBC-2019)**" organized by Dept. of Microbiology and Biotechnology, Bangalore University, Bangalore during 3rd and 4th October **2019**.
6. Presented & Participated on "Biodegradation of polyethylene by fungal consortium of SEM and FTIR analysis" in National Conference on "**Current Microbial Challenges in the Environment (CMCE-2018)**" organized by Dept. of P.G. Studies and Research in Microbiology during 09th and 10th March **2018**.
7. Presented & Participated on "Biodegradation of polyethylene by fungi isolated from local dumpsite soil of Shivamogga Dist.," in International Conference on "**Advances in Disease Management for Human Welfare**" organized by Gulbarga University,

Kalaburagi in Collaboration with Hyderabad Karnataka Region Development Board (HKRDB) Kalaburagi, Karnataka, India during 21st to 23rd November 2017.

8. Participated in One Day State Level Seminar on “**Current Challenges of Microbes**” organized by Dept. of P.G. Studies and Research in Microbiology, Jnanasahyadri, Kuvempu University, Shankaraghatta- 577 451, on 4th March, 2016.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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**.

20. Participated in National level Seminar on “**Biotechnological Strategies for Biodiversity Conservation**”, held at Dept. of Microbiology, Kuvempu University, Shankaraghatta , 13th to 15th March **2008**.
21. Participated in National level Seminar on “**Biotechnology- Current Trends and future Scenario**”, held at Dept. of biotechnology, Kuvempu University, Shankaraghatta, 10th to 11th March **2008**.
22. Participated in Seminar on “**Molecular Microbiology**”, held at Dept. of Microbiology, Kuvempu University, Davangere, 2nd to 3rd May **2007**.
23. Participated in National Level Seminar on “**Advances in Biochemistry, Biotechnology and Nanotechnology-Science for 21st Century**”, held at the Department of Biochemistry and Food Technology, Kuvempu University, Davangere, 13th to 14th November **2006**.
24. 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**.
25. Participated in Seminar on “**Medical Microbiology**”, held at Dept. of Microbiology, Kuvempu University, Davangere, 11th to 12th October **2006**.
26. Participated in Seminar on “**Current Topics in Microbiology**”, held at Dept. of Microbiology, Kuvempu University, Davangere, 28th to 29th January **2005**.

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:

(Dr. Sowmya H. V.)