

**Dr. S. VIJAYALAKSHMI**

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Ayyampatti road, Kanagavel Avenue phase II,  
Vazhavandhan kottai,  
Thuvakudi, Trichy – 620015  
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- Educational Qualification** : **Ph.D** Microbiology (UGC MAJOR RESEARCH PROJECT-JRF)  
July 2015  
A.V.V.M. Sri Pushpam College, Thanjavur.
- Title** : **BIODIVERSITY AND CHARACTERIZATION OF ENDOPHYTIC FUNGAL SECONDARY METABOLITES AGAINST CLINICAL ISOLATES OF  $\beta$ -LACTAMASES PRODUCING GRAM NEGATIVE BACTERIA**
- Philosophy** : **M. Phil** Microbiology  
August, 2009  
A.V.V.M. Sri pushpam College, Thanjavur.
- PG** : **M.Sc. Microbiology**  
April, 2008
- UG** : **B.Sc. Microbiology**  
April, 2006  
Shrimati Indira Ghandi College, Trichy
- Computer Education** : **PGDCA** (Post Graduate Diploma in computer Application), May, 2007  
Shrimati Indira Ghandi College, Trichy
- Technical Qualification** : **DMLT** (Diploma in Medical Laboratory Technology)  
June, 2005

## MEMBERSHIP

- Life member of “ **Mycological Society of India (MSI)**” .(LM-50-15)
- Life member of “ **Indian Initiative for Management of Antibiotic Resistance - IIMAR.**”

## GUEST LECTURE

**Title** : **Recent advances in Mycology**  
**Institution** : Department of Microbiology, A.V.C.College (Autonomous),  
Mannampandal, Mayiladuthurai.  
**Date** : 15-02-2016.

## BOOK CHAPTERS

- 1. Book** : Fungi and their role in sustainable development: current Perspectives.  
**Editor** : Praveen Gehlot and Joginder singh.  
**Chapter** : Bioactive compounds from Endophytic Fungi  
**Publishers** : **Springer.**
- 2. Book** : Recent trends and developments in natural product Research.(Yet to publish)  
**Chapter** : Marine fungi as Pharmacy  
**Editor** : Vineet Meshram and Joginder singh.  
**Publishers** : **Springer.**

## PAPERS PUBLISHED

1. Winny Fred Crossia James Rex Prabhu, **Vijayalakshmi Selvakumar**, Subashini Rajkumar and Sudha. . (2019) Screening of *Anogeissus latifolia* for phytochemical and antimicrobial properties against human pathogens. *Journal of Emerging Technologies and Innovative Research.* 6(5)-120-127. **(UGC Approved Journal).**
2. Winny Fred Crossia James Rex Prabhu, Subashini Rajkumar, Bhuvaneshwari P , **Vijayalakshmi Selvakumar** , Bhuvaneshwari Manivel and Chitra Devi Senthilkumar (2019). Comparative microbiological water analysis stored in different vessels. *Journal of*

*Emerging Technologies and Innovative Research*. 6(5)-592-603. (UGC Approved Journal).

3. Bhuvaneshwari Manivel, Subashini Rajkumar, **Vijayalakshmi Selvakumar**, H Dharani.2018. Decolourisation of synthetic textile dyes by using *Calocybe indica*. *International Journal of Biology Research*, 3(4):11-15. (5.22).
4. **Vijayalakshmi Selvakumar**, Panneerselvam. A, Subhashini. G, Bhuvaneshwari.S and Arockia suganya.S.2018. Prevalence and antimicrobial resistance pattern of diarrheagenic escherichia coli isolated from acute diarrhoea children. *International Journal of Biology Research*. 3(1): 306-311. (5.22). (UGC Approved Journal).
5. **Vijayalakshmi Selvakumar**, Sivaranjani.S, Sujatha.S, Revathy.M and Panneerselvam. A. 2017. Isolation & Identification of Secondary metabolites producing bacteria isolated from soil. *Asian journal of Science & Technology*. 8(12):6949-6954. (6.74).
6. **S. Vijayalakshmi Selvakumar**, G. Subhashini Rajkumar, S. Bhuvaneshwari Manivel, K. Chitra Devi Senthilkumar. 2017. Calcium Precipitating Bacteria on Biomimetic Coating Material. *International Journal of Pharmaceutical Research and Bio-Science*. 6(2): 14-24. (5.567).
7. Bhuvaneshwari S, Subashini G, **Vijayalakshmi S** and Spes Zanitha Franciska .2016. Bio-electrochemical removal of CR III from leather effluent by *Pseudomonas aeruginosa*". *International Journal of Applied research*. 2(9):528-532. (5.2).
8. Muthusamy Karnan, Pichai Tamilkani, Govindarajan Senthilkumar, **Selvakumar Vijayalakshmi** and Annamalai Panneerselvam.2016. *Volvariella bombycina* of TamilNadu. *International Journal of Current Research*. 3 (04):2175-2178. (6.226).
9. Muthusamy Karnan, Pichai Tamilkani, Govindarajan Senthilkumar, **Selvakumar Vijayalakshmi** and Annamalai Panneerselvam.2016. Cultivation, Nutrition, biochemicals and enzyme analysis of paddy straw mushroom (*Volvariella volvacea*). *International Journal of Current Research*. 8 (03): 27303-27308.(6.226).
10. Deepa S, **Vijayalakshmi S**, Kanimozhi k., Panneerselvam A.2013. Novel anticancer compounds Isolated from mangrove derived actinomycetes: A Review Article. *International Journal of Biochemistry. Photon* , 108: 260-265.(3.97).
11. **S. Vijayalakshmi**, Dr.C.Chandran, Dr.MP.Saravanan. Dr.S.Dhanapaul. Sodium Dodecyl Sulphate Polyacrylamide Gel Electrophoresis (SDS-PAGE) Pattern of Pre-Anti Retroviral

- Therapy (PRE ART) and Anti Retroviral Therapy (ART) Treated Male and Female HIV/AIDS Patients. *World Journal of Pharmaceutical Research* 3 (4) 1784-1797.(5.045)
12. **Vijayalakshmi S**, Deepa S, Panneerselvam A and Kanimozhi K., 2013. Antimicrobial compounds isolated from endophytic fungi. *J.Sci. Trans. Environ. Technov*, 7(2):62-68.
  13. **Vijayalakshmi Selvakumar**, Dr. A. Panneerselvam, Dr. N. Vijayakumar, Dr. Mohan A. Savery and Dr. N. Thajuddin., 2014. Diversity of Endophytic and Rhizosphere Soil Fungi of *Avicennia marina* in Maravakadu Mangrove Forest. *IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS)* 9(2):14-17.(1.138)
  14. **Vijayalakshmi Selvakumar**, Dr. A. Panneerselvam, Dr. N. Vijayakumar, Dr. Mohan A. Savery and Dr. N. Thajuddin., 2014. Diversity of Endophytic and Rhizosphere Soil fungi of *Suaeda monica* in Maravakadu mandrove forest. *International Journal of Current Research* 6(03):5343-5345. (6.226)
  15. **Vijayalakshmi Selvakumar**, A. Ramamourti , Dr. N. Vijayakumar , Mr. Gerold Ashok Kumar, Mr. R. Kasinathan, Dr. A. Panneerselvam. 2014. Biological Suppression of *Fusarium oxysporum* f. sp. *lycopersici* (Sacc.) Synder and Hans using antagonistic fungus *Trichoderma harzianum* (Rifai) in Tomato (*Lycopersicon esculentum* (Miller)). *International Journal of Current Research*. 6(02):4962-4964. .(6.226)

## PAPERS PRESENTED

1. **Vijayalakshmi Selvakumar**, Dr. A. Panneerselvam, Thajuddin and Suresh Mickymaray. Endophytic fungi assemblages in mangrove Plants of *Rhizophora mucronata* and their antibacterial activity against extended spectrum  $\beta$ -lactamases producing (CTX-M type) *Escherichia coli*. *National symposium on Mycological research-emerging trends, applications and prospects and 41<sup>th</sup> Annual Meeting of Mycological Society of India (MSI)*. February 23-24, 2015. Organized by Punjabi University, Patiala.
2. **Vijayalakshmi Selvakumar**, A. Panneerselvam, N. Thajuddin, N. Vijayakumar. Diversity of endophytic fungi isolated from mangrove plants of Maravakadu and their antagonistic activity against *Fusarium oxysporum* f.sp.*lycopersici*. *36<sup>th</sup> Annual conference & National symposium on Challenges and management approaches for crop diseases of national importance-status and prospects*. February 12-14, 2015. Organized

by Tamil Nadu agricultural University, Coimbatore & Indian society of Mycology and Plant Pathology, Udaipur, Rajasthan.

3. **Vijayalakshmi Selvakumar**, Dr. A. Panneerselvam. Antimicrobial and bioactive compounds from Mushroom. *International conference on Green energy & green environment*. January 21, 2015. Organized by Nadar Saraswathi college of Arts & Science, Theni.
4. **S. Vijayalakshmi**, A. Panneerselvam, R.Selvam. Nanomedicine and Nanotechnology. *National seminar on new opportunities and challenges in chemical research*. December 29-30, 2014. Organized by Department of Chemistry, A.V.V.M Sri Pushpam college(Autonomous), Poondi, Thanjavur.
5. **Vijayalakshmi Selvakumar**, A. Panneerselvam, N. Thajuddin. Endophytic fungi isolated from mangrove Plants of *Avicennia marina* and their antibacterial activity against  $\beta$ -lactamases producing gram negative bacteria. *Asian plant science conference*. November 1-3. Organized by Society for Applied biotechnology, Biotechnology Society of Nepal, Association for the Advancement of Biodiversity Science, Eurasian Academy of Environmental Sciences, Bhairahawa, Nepal.
6. **Vijayalakshmi Selvakumar**, Dr. A. Panneerselvam, Dr. N. Vijayakumar and Dr. Mohan A. Savery. Studies on Endophytic Fungi and Rhizosphere soil Fungi of Some Mangrove Plants. *National Conference on Fungal Diversity and Biotechnology for Food and Chemicals (FDBFC-2014) & 40<sup>th</sup> Annual Meeting of Mycological Society of India (MSI)*. February 27-28, 2014. Organized by Centre of advanced study in marine biology, Annamalai University, Parangipettai.
7. **S. Vijayalakshmi**, S. Deepa, A. Panneerselvam. The future of forming: Eight solutions for a hungry world. *International Conference on food technology*. January 4-5, 2013. Organized by Indian institute of Crop Processing technology, Thanjavur.
8. **S .Vijayalakshmi** and A. Panneerselvam. Biology of Endophytic Fungi Isolation, Molecular Characterization, Bio-Technological Application and Pharmaceutical Applications of Endophytic secondary Metabolites. *National Seminar on Cutting Edge Microbial Research and Challenges*. February 25-26, 2013. Organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli.

9. **S .Vijayalakshmi** and A. Panneerselvam. Diversity of fungi from Muthupettai mangroves. *National Conference on Microbes and Human Welfare*. July 20-21, 2013. Organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli.
10. **S .Vijayalakshmi** and A. Panneerselvam. Isolation and Identification of Endophytic Fungi from *Avicennia marina* in Muthupettai Mangroves. *National Conference on New opportunities and challenges in Microbial Research*. September 5-6, 2013. Organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli.
11. **S .Vijayalakshmi**, C.Chandran, M.P.Saravanan, S.Dhanapal. Sodium Dodecyl Sulphate Polyacrylamide Gel Electrophoresis (SDS-PAGE) pattern of Pre-Anti Retrivial Therapy(Pre ART) and Anti Retroviral Therapy (ART) treated male and female HIV/AIDS patients. *National symposium on emerging trends in life sciences*. March 17-19, 2010. Organized by P.G and research department of Zoology, Rajah Serfoji Govt. College (Autonomous), Thanjavur.
12. **S .Vijayalakshmi**, C.Chandran, M.P.Saravanan, S.Dhanapal. Serum protein expression of Pre-Anti Retrivial Therapy (Pre ART) and Anti Retroviral Therapy (ART) treated HIV/AIDS patients in an ART Clinic. 7<sup>th</sup> *National symposium on Modern biological sciences*. February 5-6, 2010. Organized by SNMV College of Arts & Science, Coimbatore (**GOLD MEDAL FOR BEST PAPER AWARD**).
13. **S. Vijayalakshmi**. H1N1 Flu (Swine flu). *National conference on Emerging themes in infection biology*. July 15-16, 2010. Organized by Dhanalakshmi srinivasan college of Arts & science for women, Perambalur.
14. **S. Vijayalakshmi**, C.Chandran. Post-Harvest diseases of tree fruits. *National seminar on Industry-academia synergy to enhance food security through processing and value addition*. March 6-7, 2010. Organized by Indian institute of Crop Processing technology, Thanjavur.
15. **S. Vijayalakshmi**, K. Anandhi, C.Chandran. Biological suppression of *Fusarium oxysporum f.sp.lycopersici* using anatagonistic fungus *Trichoderma harzianum* in Tomato. 6<sup>th</sup> *National symposium on Modern biological sciences*. January 28-29, 2009. Organized by SNMV College of Arts & Science, Coimbatore. (**SILVER MEDAL FOR BEST PAPER AWARD**).

## SEMINARS ATTENDED

1. National seminar on "**Thrust areas in Biotechnology**"
2. State level conference on "**Medical Laboratory Technician in Medical Fraternity**"
3. Scientific seminar on "**Medical Laboratory Science in Public health-2005**"
4. Scientific seminar on "**Medical Laboratory Science in Public health-2006**"
5. National conference on Progress in Algology in the Indian context

## WORKSHOPS ATTENDED

1. Workshop on "**Strategies for Biotech Entrepreneurship**", SASTRA University, Thanjavur. January 2017.
2. International Workshop on "**Biochemical Techniques**", Shrimati Indira Gandhi College, Trichy. January 2017.
3. Plants for People and People for Plants, A.V.V.M Sri Pushpam College, Thanjavur. December 2014.
4. Leaf to Drug, Biozone Research Technologies, Chennai. May 2014
5. Edible mushroom cultivation technology, A.V.V.M Sri Pushpam College, Thanjavur. 2009

## 16S rRNA / 18S rRNA GENE PARTIAL SEQUENCES SUBMITTED TO GENBANK

(NCBI)

- |  |            |
|--|------------|
| 1. <i>E.coli</i> VSKPSC1                     | - KP244285 |
| 2. <i>Klebsiella Pneumoniae</i> VSKPSC2      | - KP244286 |
| 3. <i>Enterobacter</i> VSKPSC3               | - KP244287 |
| 4. <i>E.coli</i> VSKPSN1                     | - KP244288 |
| 5. <i>Klebsiella pneumoniae</i> VSKPSN2      | - KP244289 |
| 6. <i>Trichoderma longibrachiatum</i> VSKPE1 | - KM222826 |
| 7. <i>Aspergillus awamori</i> VSKPE2         | - KM222825 |
| 8. <i>Penicillium citrinum</i> 1 VSKPE3      | - KM070816 |
| 9. <i>P. citrinum</i> 2 VSKPE4               | - KM198321 |
| 10. <i>P. citrinum</i> 3 VSKPE5              | - KM198322 |
| 11. <i>T. viride</i> VSKPE6                  | - KM222827 |
| 12. <i>Bacillus cereus</i> VSKPS4            | - KM198323 |

13. <i>B. cereus</i> VSKPS5	- KM198324
14. <i>B. cereus</i> VSKPS6	- KM198325
15. <i>Bacillus sp.</i> VSCBNR7	-KY750317
16. <i>E.coli</i> SVSCBNR5	- KY787193

### **EXPERIENCE**

1. Institution : Shrimati Indira Gandhi College, Trichy  
Designation : Lecturer  
Period : May 2010 to Oct 2010
2. Institution : Indian Biotrack Research Institute, Thanjavur.  
Designation : Microbiologist  
Period : August 2015 to May 2016.
3. Institution : Shrimati Indira Gandhi College, Trichy  
Designation : Assistant Professor  
Period : June 2016 to Till date

### **PERSONAL DETAILS**

Father's Name: N. Sundararajan  
Date of Birth : 22.11.1985  
Gender : Female  
Marital Status : Married  
Language Known: English, Tamil & Hindi (Writing)  
Nationality : Indian

### **DECLARATION**

I hereby declare that the above – Furnished details are true and correct to the best of my knowledge.

Yours Faithfully



**(S. VIJAYALAKSHMI)**



## REFERENCES

1. Dr.A.Panneerselvam

Associate Professor & Head

Department of Botany and Microbiology,

A.V.V.M Sri Puspam College, Poondi,

Thanjavur Dt.

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2. Dr. N. Thajuddin

Professor& Head,

Dean Faculty of Science and

Engineering,

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Email: [nthaju2002@yahoo.com](mailto:nthaju2002@yahoo.com)

Ph: 9842379719