

CURRICULUM VITAE



Office

Dr. RAMASAMY VIJAYAKUMAR
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Personal Profile

Date of Birth : 26.02.1978
Gender : Male
Marital status : Married
Nationality : Indian

Educational Qualification

18 August, 2007

Doctor of Philosophy (Thesis Commended)

P.G. & Research Dept. of Botany and Microbiology, A.V.V.M. Sri Pushpam College, Poondi - 613 503, Thanjavur (Bharathidasan University, Tiruchirappalli – 24) India.

Title of the thesis

Studies on actinomycetes from Palk Strait region of Tamil Nadu coast with reference to antibiotic production.

November 2003

Master of Philosophy (First Class with distinction; 85.8%)

P.G. & Research Dept. of Botany and Microbiology, A.V.V.M. Sri Pushpam College, Poondi - 613 503, Thanjavur (Bharathidasan University, Tiruchirappalli – 24), India.

Title of Dissertation

Studies on the characterization, growth and control of Malassezia furfur (Robin) Baillon, a dandruff fungus

April 2002

Master of Science in Applied Microbiology (First Class; 62.7%)

Kandhaswami Kandar's College, P.Velur - 638 182, Namakkal Dt., Tamilnadu. Affiliated to Periyar University, Salem. India.

Title of Dissertation

In vitro effect of aqueous garlic extract against medically important yeast-like fungus.

April 2000

Bachelor of Science in Zoology (First Class; 65.9%)

Govt. Arts College, Karur, Affiliated to Bharathidasan University, Tiruchirappalli - 24, India.

Experience

1. Research experience – 18 years; Teaching experience – 14 years
2. Technician at Arogiya Computerized Diagnostics, Karur, Tamilnadu from 03.04.2000 to 31.04.2001 (1 year).
3. Lecturer in Microbiology, Dr. G.R. Damodaran College of Science, Avanashi Road, Civil Aerodrome Post, Coimbatore - 641 014. India from June 23rd, 2006 – 15.06.2009.
4. Lecturer & Head in Microbiology, Bharathidasan University College for Women, Orathanadu – 614 625, Thanjavur District, Tamilnadu, India from July 1st, 2009 – 12.11.2009.
5. Assistant Professor & Head in Microbiology, Bharathidasan University College for Women, Orathanadu – 614 625, Thanjavur District, Tamilnadu, India from 12.11.2009 to 14.11.2012.
6. Assistant Professor in Microbiology, Bharathidasan University Constituent College, Kurumbalur – 621 107, Perambalur District, Tamilnadu, India from 14.11.2012 to 30.06.2013.
7. Assistant Professor (Stage II) in Microbiology, Bharathidasan University Constituent College, Kurumbalur – 621 107, Perambalur District, Tamilnadu, India from 01.07.2013 to 28.02.2019
8. Assistant Professor (Stage II) in Microbiology, Government Arts and Science College, Kurumbalur – 621 107, Perambalur District, Tamilnadu, India from 01.03.2019 to till date.

Research Guide ship

1. Research Guide/ Supervisor – Ph.D., Microbiology, Bharathidasan University, Tamilnadu – Ref. No. 32063/Ph.D.1/Microbiology/R.A./dated 15.02.2010.

Membership in Professional Bodies

1. Life member in *Journal of Soil Biology and Ecology* from 2004 onwards.
2. Member in *International Association of Computer Science and Information Technology* (IACSIT) No.80337318, February 2010 onwards.
3. Member in *British Science Association* 19th April 2010 onwards.
4. Life member in *National Academy of Biological Sciences* from 2013 onwards.

5. Life Member in *Mycological Society of India* (MSI) from 2018 onwards.

Member in Board of Studies

1. Acted as Member (Internal), Board of Studies in Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore – 641 014 for academic years 2006 – 2009.
2. Member in Board of Studies, UG and PG Microbiology, Bharathidasan University, Tiruchirappalli for three years from 01.04.2012.
3. *University Nominee* for Board of Studies in Biotechnology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore – 641 014 for academic years 2012 – 2014.
4. *Member* in up-gradation of World Class Curriculum for UG & PG Microbiology syllabi, Bharathidasan University, Trichy during 2016.
5. Member as subject expert in Board of Studies, UG and PG Microbiology, A.V.C. College (Auto.), Mannampandal – 609 305, Mayiladuthurai, Nagapattinam District for the academic years 2017-2020.

Prizes, Medals and other Honors Received

- ❖ Received Shri P.K. Das Memorial “**Best Faculty Award 2013**” in Microbiology (Junior), the award given by Nehru Arts and Science College, Coimbatore – 641 105, Tamilnadu, India.
- ❖ Received **Best Paper Awards** in various national level conferences/symposia/seminars at **11** times.

Orientation Course/ Refresher Course/ Faculty Development Programme/ Short Term Course attended

1. *Participated* - Faculty Development Programme on “*Promoting Entrepreneurship in Educational Institutions*” during August 12th, 2008, at GRD - Entrepreneurship Development Cell, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 14.
2. Attended UGC Sponsored 66th Orientation Course conducted by Academic Staff College, Bharathidasan University, Tiruchirappalli from 09. 11. 2010 to 06. 12. 2010 and got A Grade.
3. *Attended* – UGC Sponsored *Short Term Course in Life Science for Research Advisors* held at UGC – Academic Staff College, Bharathidasan University, Tiruchirappalli, from 25.03.2011 to 27.03.2011.
4. Attended - UGC Sponsored Refresher Course in Life Sciences (ID) conducted by Academic Staff College, Bharathidasan University, Tiruchirappalli from 29.06.2013 to 19.07.2013.
5. Attended - UGC Sponsored Refresher Course in Life Sciences (ID) conducted by UGC-Human Resource Development Centre (UGC-HRDC), Bharathidasan University, Tiruchirappalli from 03.03.2016 to 23.03.2016.
6. Attended – Two day FDP on Design, Develop and Deliver online Courses through Moodle platform conducted by TANSCHÉ with technical support of DOTE, Tamilnadu on May 29th and 30th.

Invited Talk/ Lectures Delivered

1. Lecture on “**Milk Quality**” in two days training programme on “*Microbiological Techniques - “Microinnova”*” for school students during October 13 and 14th, 2008, held at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 641 014, Tamilnadu.
2. Lecture on “**Sutrupura Suzal Membadu**” at NSS Camp conducted Kannathangudi Keelayur by Bharathidasan University College for Women, Orathanadu - 614 625, Thanjavur Dt., Tamilnadu during 2010.
3. Invited Special Lecture on “**Balanced Nutrition for Healthy Life**” in Science Day Celebration on 19th February, 2013 at Bharathidasan University College for Women, Orathanadu – 614 625, Thanjavur Dt.
4. Lecture on “*Applications of Microbiology*” in DST Sponsored INSPIRE - 2014 Internship Science Camp on 02.03.2014 at A.V.V.M. Sri Pushpam College (Autonomous), Poondi – 613 503, Thanjavur Dt., Tamilnadu.
5. Lecture on “*Actinobacteria and their Industrial Applications*” in One Day In-House Seminar held at Department of Microbiology, M.R. Government Arts College, Mannargudi – 614 001, Tamilnadu on 12.09.2014.
6. Lecture on “*Marine Based Microbial Drug Discovery*” in One Day seminar on Motivation Campaign and Promotion of Young Scientist on 10.02.2016 at Department of Microbiology, Bharathidasan University College for Women, Orathanadu – 614 625, Thanjavur Dt.
7. Lecture on “*Biotechnological Potentials of Actinobacteria*” in special lecture programme conducted at Department of Microbiology, M.R. Government Arts College, Mannargudi – 614 001, Tamilnadu on 07.07.2017.
8. Lecture on “*Balanced Diet for Healthy Life*” in NSS Programme held at Bharathidasan University P.G. Extension Centre, Bharathidasan University, Kurumbalur – 621 107, Perambalur 04.10.2017.
9. Lecture on *Assembly and Usage of Foldscope (An Educational, Training and Research Tool)* for College Students at Dept. of Microbiology, Bharathidasan University Constituent College, Perambalur – 621 107, in DBT, Govt. of India sponsored Workshop on *Assembly and Usage of Foldscope* during 17.09.2018.
10. Lecture on *Assembly and Usage of Foldscope* for Higher Secondary Students at Govt. Higher Secondary School, Kurumbalur, Perambalur – 621 107 in DBT, Govt. of India sponsored Workshop on *Assembly and Usage of Foldscope* during 04.12.2018.
11. Lecture on *Microbiology – Microorganisms, Basic Tools and Techniques and Assembly and Usage of Foldscope* for higher secondary students in Young Students Programme (YSP) held at Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur on 01.01.2019.
12. Lecture on “*Foldscope: A Modern Tool for the Fungal Research*” in DBT, Govt. of India sponsored One-Day National Seminar cum Workshop on ‘*Biological and Medical Applications of Foldscope and Mycorrhizal Commercial Productions*’

conducted at Department of Microbiology, M.R. Government Arts College, Mannargudi – 614 001, Tamilnadu on 31.01.2019.

13. Lecture on *Assembly and Usage of Foldscope* for School Students at Govt. High School, Thambiranpatti, Perambalur – 621 104 in DBT, Govt. of India sponsored Workshop on *Assembly and Usage of Foldscope* during 09.02.2019.
14. Lecture on *Assembly and Usage of Foldscope* for UG and PG Students at Dept. of Microbiology, SRM Arts and Science College (SRM University Campus), Kattankulathur, Tamilnadu in DBT, Govt. of India sponsored Workshop on *Assembly and Usage of Foldscope* during 02.03.2019.
15. Lecture on *Assembly and Usage of Foldscope* for higher secondary students in Young Students Programme (YSP) held at Sengunther College of Arts and Science, Tiruchengode, Namakkal Dt., Tamilnadu during 10.05.2019.
16. Awareness lecture delivered on “*Corona Virus Diseases (An Awareness Programme)*” for UG & PG Students, at Government Arts and Science College, Kurumbalur, Perambalur – 621 107 on 10.02.2020 (FN & AN) and 11.03.2020.

Seminars /Conferences/ Training Programme/ Camps Organized

1. *Organized* - Guest Lecture Programme on **Marine Fungi** - Delivered by Dr. N. Nadimuthu, Lecturer in Botany, Avvaiyar College for Women, Karaikkal, during 24th Dec. 2004 at Dept. of Microbiology & Biotechnology, Meenakshi Chandrasekaran College of Arts and Science, Karambayam - 614 616, Pattukkottai, Thanjavur, Tamilnadu.
2. *Organizing Committee member* - National Seminar on **Industrial Perspectives of Microbes in Industry and Biotechnology** during 29th and 30th January, 2007 at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 640 014.
3. *Organizing Committee member* - National Seminar on **Microbial Technology (mt-08)** during 19th and 20th March, 2008 at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 640 014.
4. *Organizing Committee member* - One day Seminar on **Microbiology** during August 11th, 2008 at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 641 014.
5. *Organizing Committee member* - National Seminar on “**Enzyme Technology**” during 19th and 20th February, 2009 at Department of Biochemistry, Dr. G.R. Damodaran College of Science, (Auto.), Coimbatore – 641 014.
6. *Organizing Committee member* - National Conference on **Developments in Detergent Drug Formulation Against Microbial Infections (mt-09)** during 24th and 25th February, 2009 held at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 641 014.
7. *Organized* – “**Blood Group Testing Camp**” at Microbiology Laboratory, Bharathidasan University College for Women, Orathanadu – 614 625, Thanjavur Dt. during 05.08.2009 and 06.08.2009.
8. *Organized* - a Special Lecture Programme on “**Introduction to Biotechnology**” Delivered by Dr. M. Gunasekaran, Professor, Dept. of Biology, Fisk University, USA at Dept. of Microbiology, Bharathidasan University College for Women, Orathanadu - 614 625, Thanjavur Dt. on 11.12.2009 and inaugurated “**Health Club**”.
9. *Organized* - “**Body Mass Index Testing Camp**” at Dept. of Microbiology, Bharathidasan University College for Women, Orathanadu – 614 625, Thanjavur Dt. during 4th & 5th February, 2010.
10. *Organized* - “**Blood Grouping Camp**” at Microbiology Laboratory, Bharathidasan University College for Women, Orathanadu - 614 625, Thanjavur Dt. from 10.08.2010 to 12.08.2010 for 1st UG students.
11. *Organized* - “**Blood Grouping Camp**” at Microbiology Laboratory, Bharathidasan University College for Women, Orathanadu – 614 625, Thanjavur Dt. on 03.09.2010, for 1st year PG students.
12. *Organized* - Special Lecture Programme on “**State of Affairs in Research and Professions in Microbiology**” Dr. C. Muthukumar, Assistant Professor in Botany & Microbiology, College of Science, King Saud University, Riyadh - 11451, Kingdom of Saudi Arabia at Dept. of Microbiology, Bharathidasan University College for Women, Orathanadu - 614 625, Thanjavur Dt. on 06.09.2010.
13. *Organized* - “**Blood Grouping Camp**” at Microbiology Laboratory, Bharathidasan University College for Women, Orathanadu - 614 625, Thanjavur Dt. during 24 & 25 August 2011 1st UG and PG students.
14. Organized and acted as a Co-ordinator for **In-service Training Programme for Secondary Grade Science Teachers** at Bharathidasan University College for Women, Orathanadu – 614 625, during 21st – 25th November, 2011, Sponsored by TNSCST, Chennai.
15. Organized a One Day Seminar on **Development of Women Entrepreneurs** at Bharathidasan University College for Women, Orathanadu – 614 625, during 14th February, 2012, Sponsored by TNSCST, Chennai.
16. *Organized* - Special Lecture Programme on “**Genetic Engineering – A Revolution in Molecular Biology**” Dr. M. Gunasekaran, Professor, Dept. of Biology, Fisk University, Nashville, Tennessee, USA, at Dept. of Microbiology, Bharathidasan University College for Women, Orathanadu - 614 625, Thanjavur Dt. during 07.09.2012.
17. *Organized* - “**Blood Grouping Camp**” at Microbiology Laboratory, Bharathidasan University College for Women, Orathanadu - 614 625, Thanjavur Dt. During 21.09.2012 1st UG & PG students.
18. *Organized* - Special Lecture Programme on “**Micro-algae and their Industrial Applications**” Dr. C. Muthukumar, Assistant Professor in Botany & Microbiology, College of Science, King Saud University, Riyadh - 11451, Kingdom of Saudi Arabia at Dept. of Microbiology, Bharathidasan University Constituent College, Perambalur – 621 107 on 18.09.2014.
19. *Organizing member* - Awareness and Skill Development Programme on **Application of Science and Technology in Rural Area (ASTRA)** between 27th and 31st July, 2015 sponsored by TNSCST, Govt. of Tamilnadu at Perambalur – 621 107.

20. *Organizing member* – One Day Motivation Campaign on “*Promotion of Youth Entrepreneurship*” jointly organized by Institute of Entrepreneurship and Career Development (IECD), Bharathidasan University, Tiruchirappalli and Bharathidasan University Constituent College, Perambalur – 621 107 on 24.02.2017.
21. *Organizing member - Training Programme* on “*Seed Ball Preparation*” Trainer: Mr. M. Kannan, B.Sc., Alumni, held at Department of Microbiology, Bharathidasan University Constituent College, Perambalur – 621 107 on 17.07.2017.
22. *Organizing member - a Special Lecture Programme* on “*Microbes and Human Health*” delivered by Dr. S. Rajan, Assistant Professor, Department of Microbiology, M. R. Government College, Mannargudi – 614 001 on 30.08.2017.
23. Organized two day Training Workshop on *Sanitary Napkin Preparation* at Dept. of Microbiology, Bharathidasan University Constituent College, Perambalur – 621 107 on 21 & 22 December, 2017.
24. Organized One Day Training Workshop on *Assembly and Usage of Foldscope (An Educational, Training and Research Tool)* for College Students at Dept. of Microbiology, Bharathidasan University Constituent College, Perambalur – 621 107, on 17th September, 2018, sponsored by DBT, Govt. of India.
25. Organized One Day Training Workshop on *Assembly and Usage of Foldscope* for Higher Secondary Students at Govt. Higher Secondary School, Kurumbalur, Perambalur – 621 107 on 04.12.2018, sponsored by DBT, Govt. of India.
26. Jointly organized St. Edmund’s College, Shillong - 793 003, Meghalaya & M.R. Govt. College, Mannargudi - 614 001, Tamilnadu and acted as a Co-ordinator for One Day Training Workshop on *Assembly and Usage of Foldscope and Twinning Programme* on 30.01.2019, sponsored by DBT, Govt. of India.
27. *Organizing member - Awareness and Skill Development Programme* on *Application of Science and Technology in Rural Area (ASTRA)* between 4th and 8th February, 2019 sponsored by TNSCST, Govt. of Tamilnadu at Perambalur – 621 107.
28. Organized One Day Training Workshop on *Assembly and Usage of Foldscope* for Students at Govt. High School, Thambiranpatti, Perambalur – 621 104 on 09.02.2019, sponsored by DBT, Govt. of India.
29. Organized a One Day Training Workshop on *Assembly and Usage of Foldscope* for UG and PG Students at Dept. of Microbiology, SRM Arts and Science College (SRM University Campus), Kattankulathur, Tamilnadu on 02.03.2019, sponsored by DBT, Govt. of India.
30. *Organized - Workshop on “Bioinformatics” – Resource person:* Dr. C. Muthukumar, Assistant Professor of Botany, National College (Autonomous) at Dept. of Microbiology, Government Arts and Science College, Perambalur – 621 107 on 27.02.2020.

Acted as a Resource Person/ Chair Person

1. *Acted as Resource Person - Training Program* on *Edible Mushroom Cultivation* for Women Self Help Groups during 9-11th January 2004 at Dept. of Botany and Microbiology, A.V.V.M. Sri Pushpam College (Auto.), Poondi - 613 503, Thanjavur Dt.
2. *Acted as a Judge - A district level NCSC Project presentation* for School Students, on November 17th, 2006 at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 640 014.
3. *Acted as a Judge – Poster Session* in the Two Day National Seminar on “*Biotechnology in the Genomics and Proteomics Platform*” organized by School of Biotechnology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore – 641 014, during September 25-26, 2008.
4. Acted as a Chair Person in poster presentation in National Symposium on “*Prospects and Retrospects in Microbial Technology*” jointly organized by Dept. of Microbiology, Bharathidasan University and Dept. of Microbiology & Biotechnology, Cauvery College for Women, Tiruchirappalli, during 17th & 18th February, 2012.
5. Acted as a Convener of oral presentation in National Seminar on “*Microbes and Human Welfare*” on 20 & 21 July, 2013 at Dept. of Microbiology, Bharathidasan University, Tiruchirappalli in collaboration with National Academy of Biological Science, Chennai in session TS-III: Microbes in Biotechnological Innovations, 21st July, 2013.
6. Chaired the Scientific Session in National Conference on “*New Opportunities and Challenges in Microbial Research*” on 5th & 6th Sep., 2013 at Dept. of Microbiology, Bharathidasan University, Tiruchirappalli, post presentation session (PP-96 to PP133), 6th Sep., 2013.
7. Acted as a Chair Person in Poster Competition in DST Sponsored “*INSPIRE - 2013*” Internship Science Camp on organized by Dept. of Microbiology, Bharathidasan University, Tiruchirappalli, during December 26th -30th, 2013.
8. Acted as a Chair Person in Poster presentation in National Conference on “*Recent Advances in Modern Biology and Rural Development (RAMBARD - 2017)*” organized by Department of Botany and Microbiology, A.V.V.M. Sri Pushpam College (Auto.), Poondi, Thanjavur in collaboration with Department of Microbiology, Bharathidasan University, Trichy - 24 during 5th & 6th October, 2017.
9. Acted as a Chair Person of oral presentation in International Seminar on “*Life Science – Recent Trends and Applications*” on 09.02.2018 held at Departments of Life Sciences, Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur – 621 212.
10. Acted as a Co-Chair Person in Poster presentation in National Conference on “*Microbiome Research: Understanding the Diversity to Improve Plant, Animal, Human and Environmental Health*” organized by C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli - 394 350, Surat, Gujarat in collaboration with Associations of Microbiologists of India between 07.03.2019 and 09.03.2019.
11. Acted as a Chairperson in National Seminar on “*Microbes in Women Health*”, during July 11-12, 2019 organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli – 620 024, in collaboration with Trichy Obstetric and Gynaecological Society (TRIOGS), Session IV (Plenary Lecture 11 and 12).

Workshop/ Training Programme/ Attended

1. *Attended* - Training program on *Vaccine Production* at Pasteur Institute of India, Coonoor - 643 103, Nilgiris, Tamilnadu, from 24.09.2001 to 29.09.2001.
2. *Participated* - State level Workshop on *The State of the Art Technique in Agricultural Microbiology*, during October 4-6th 2002 held at Department of Botany and Microbiology, A.V.V.M. Sri Pushpam College (Auto.), Poondi - 613 503, Thanjavur Dt.
3. *Participated* - State level Training Workshop on *Collection, Preservation and Identification of Common Coastal and Marine Fauna and Flora Occurring in Mallipattinam, along South East Coast of India*, during 29th and 30th December 2004 at Sri Venkateshwara College of Arts and Science, Peravurani - 614 804, Thanjavur Dt., Tamilnadu.
4. *Participated* - One day Workshop on *"Human DNA Finger Printing for Teachers and Young Scientists"* during September 23, 2008 held at School of Biotechnology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 641 014.
5. *Participated* - One day orientation Training Programme for College YRC Programme Officers and Students Volunteers on 09.02.2011 at Kundavai Nachiyar Govt. College for Women (Auto.), Thanjavur.
6. *Participated* - One day Workshop on *"Reform of Undergraduate and Postgraduate Curriculum for Enhancing Employability"* on 22.03.2013 organized by Curriculum Development Cell of Bharathidasan University, Tiruchirappalli.
7. **Participated** - One day Exclusive Workshop for Research Supervisors on **"Quality Research Report Writing"** on 28.02.2014 held at Curriculum Development Cell, Bharathidasan University, Tiruchirappalli - 24.
8. **Participated** – DBT – Prakash Lab Orientation Workshop on the use of Foldscope held at ICGB, New Delhi on April 16, 2018.
9. **Participated** - Workshop on **"Bioinformatics"** – held at Dept. of Microbiology, Government Arts and Science College, Perambalur – 621 107 on 27.02.2020.

Seminars/ Symposia/ Conferences - Participated/ Paper Presented (75)

National

1. *Participated* - National level third inter collegiate students Seminar on *Current Trends and Future Directions in Life Science* during January 4th and 5th, 2002 held at P.G. and Research Dept. of Biological Sciences of Muthayammal College of Arts and Science, Rasipuram, Namakkal and Flora (*The People of Biology*).
2. *Participated* - National Seminar on *Microbes is Peace and War* during 21 & 22th Feb., 2002 at Sengunther Institute of P.G. Studies and Research in Microbiology, Sengunther College of Arts and Science, Tiruchengodu - 637 205, Tamilnadu.
3. *Participated* - National Seminar on *Biotechnology in the New Millennium* during Feb. 15 & 16th, 2002 at Vivekanandha College of Arts and Science for Women, Elayampalayam, Tiruchengodu - 637 205, Tamilnadu.
4. *Participated* – National Seminar on *Superficial Mycoses Causes, Prevention and Cure with Plant Medicines*, during 12th and 13th September, 2003, held at Department of Botany, Kandhaswami Kandar's College, P.Velur - 638 182, Namakkal Dt., Tamilnadu. **Paper Presented:** Screening of plants for antifungal activity against *Malassezia furfur* (Robin) Baillon a fungus causing pityriasis versicolor, **R. Vijayakumar**, C. Muthukumar, S. Alaguraju and T. Kumar.
5. *Participated* – National Symposium on *Recent Trends in Biological Research* during Feb. 17-19th, 2004 at Dept. of Botany and Microbiology, A.V.V.M. Sri Pushpam College (Auto.), Poondi - 613 503, Thanjavur Dt. **Paper presented:** Evaluation of efficiency of commercial shampoos and plant extracts in controlling the growth of *Malassezia furfur* (Robin) Baillon. **R. Vijayakumar**, C. Muthukumar, S. Alaguraju, T. Kumar, N. Nadimuthu and R. Saravanamuthu.
6. *Participated* - National Symposium on *Microalgal Biotechnology* during 11-13th March, 2004, at Dept. of Microbiology and National Facility for Marine Cyanobacteria (NFMC) and Bioinformatics Centre (BIC), Bharathidasan University, Tiruchirappalli - 24, Tamilnadu.
7. *Participated* – National Symposium on *"Biology and Biodiversity of Fresh Water Algae* during 8th-9th September, 2004, at CAS in Botany, University of Madras, Guindy Campus, Chennai – 25. **Paper presented:** Cyanobacterial biodiversity from different fresh water ponds of Thanjavur. C. Muthukumar, **R. Vijayakumar**, G. Muralidharan, A. Panneerselvam and N. Thajuddin.
8. *Participated* - National Symposium on *Marine Plants, their Chemistry and Utilization* during 23rd -25th June, 2005 at Suganthi Devadasan Marine Research Institute, Tuticorin - 628 001, Tamilnadu.
9. *Participated* – VIII National Symposium on *Soil Biology in Human Welfare* during 5th-7th October, 2005 at Dept. of Microbiology, Ponnaiyah Ramajayam College, Thanjavur - 614 904. **Papers presented:**
 - a. Screening of antagonistic actinomycetes from east coast of India, **R. Vijayakumar**, C. Muthukumar, N. Thajuddin and A. Panneerselvam.
 - b. Studies on the antagonism of some soil fungi against *Drechslera ellisii* a fruit rot causing organisms in Guava, C. Muthukumar, **R. Vijayakumar**, T. Kumar, A. Panneerselvam and R. Saravanamuthu.
10. *Participated* – National Seminar on *Industrial Perspectives of Microbes in Industry and Biotechnology* during 29th-30th January, 2007 at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 640 014. **Papers presented:**
 - a. Antagonistic activity of actinomycetes against yeast pathogens, S. Anitha, V. Seethalakshmi, **R. Vijayakumar** and A. Panneerselvam (**Best poster presentation 1st prize**).
 - b. Preliminary screening of actinomycetes from Coimbatore soil for their antibacterial activity, V. Seethalakshmi, S. Anitha, **R. Vijayakumar** and A. Panneerselvam (**Best oral presentation 2nd prize**).

- c. A study on the diversity of actinomycetes in Maruthamalai Hills, Western Ghats, Virali M. Sha, S. Vennila, S. Vignesh, K. Vikash and **R. Vijayakumar** (Best oral presentation 1st prize).
11. Fifth National Symposium on *Modern Biological Sciences* during 21st-22nd January 2008 at Department of Biosciences and Research, SNMV College of Arts and Science, Coimbatore - 641 021. **Paper presented:** Studies on the diversity and antimicrobial properties of marine actinomycetes from West Coast of India, **R. Vijayakumar** and M. Remya.
 12. *Participated* – National Seminar on *Microbial Technology (mt-08)* during 19th-20th March, 2008 at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 640 014. **Papers presented:**
 - a. Isolation and identification of fungi from spoiled fruits and vegetables, Indu, C., Joysina Stephen, S., Karthick, M., Krishansamy, E., Lingeswaran, N. and **R. Vijayakumar**.
 - b. Studies on antibacterial activity of the actinomycetes isolated from the terrestrial soils of Tirupur, R. Malathi, E.S. Pooja, M. Remya and **R. Vijayakumar**.
 - c. Studies on the diversity and antimicrobial properties of actinomycetes from West Coast of India, Kerala, M. Remya and **R. Vijayakumar**.
 - d. Extra cellular enzyme activity of actinomycetes isolated from dye effluent polluted soils of Tirupur, R. Malathi, E.S. Pooja, M. Remya and **R. Vijayakumar**.
 13. Louis Pasteur Memorial National Symposium on *Infectious Diseases* during 8th-9th, Aug. 2008 at Department of Microbiology, Dr. N.G.P. Arts and Science College, Coimbatore - 614 048. **Papers presented:**
 - a. Studies on the characterization of *Malassezia furfur* Baillon and its control by using plant extracts, **R. Vijayakumar**, K. Santhiya and G. Gopika.
 - b. Antimicrobial efficacy of terrestrial actinomycetes against some bacterial pathogens, **R. Vijayakumar**, G. Gopika and K. Santhiya (Best Poster 2nd prize).
 14. National Seminar on “*Enzyme Technology*” during 19th-20th, February, 2009 at Department of Biochemistry, Dr. G.R. Damodaran College of Science, (Auto.), Coimbatore – 641 014. **Paper presented:** Extracellular enzyme activity of actinomycetes isolated from polluted soils of Tirupur, S. Anitha, E.S. Pooja and **R. Vijayakumar**.
 15. *Participated* – National Conference on *Developments in Deterrent Drug Formulation Against Microbial Infections (mt-09)* during 24th-25th February, 2009 held at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 640 014. **Papers presented:**
 - a. Isolation, characterization and antibacterial activity of actinomycetes from dye polluted soils of Tirupur, S. Anitha, R. Malathi and **R. Vijayakumar**.
 - b. Discovery of novel antibiotics from marine actinomycetes, Baskaran, R. and **R. Vijayakumar**.
 - c. Marine actinomycetes - a source of novel antibiotics, Gopika, G., Santhiya, K. and **R. Vijayakumar**.
 16. *Participated* – National Seminar on “*Immunology and Immunotechnology*” during 18th-19th September, 2009 held at Dept. of Microbiology, Bharathidasan University, Tiruchirappalli – 620 024.
 17. National Seminar on “*The Role of Siddha and Ayurvedha Medicine in Geriatric Care*”, during October 19th-20th, 2009 held at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 640 014. **Papers presented:**
 - a. Studies on the antibacterial activity of medicinal plants against urinary tract infection pathogens, M. Bharathidasan, **R. Vijayakumar** and T. Kumar.
 - b. Antimicrobial efficacy of medicinal plants against UTI pathogens isolated from normal and HIV infected patients of Kanyakumari District, S.V. Shayja, M. Bharathidasan, **R. Vijayakumar** and T. Kumar.
 18. *Participated* - National Symposium on “*Emerging Trends in Life Sciences*” during March 17th-19th, 2010 held at P.G. and Research Dept. of Zoology, Rajah Serfoji Govt. College (Auto.), Thanjavur – 613 005. **Paper presented:** Production of protease under submerged fermentation technique. S. Suganthi, R. Saranya and **R. Vijayakumar**.
 19. National Seminar on “*Microbial Diagnostics (mt '10)*”, during March 18th, 2010 held at Department of Microbiology, Dr. G.R. Damodaran College of Science (Auto.), Coimbatore - 640 014. **Paper presented:** *In vitro* antimicrobial efficacy of *Streptomyces griseus* VPTS18 a marine actinomycete against clinical pathogens, **R. Vijayakumar**.
 20. National Seminar on “*Medicinal Plants Conservation, Cultivation and utilization*” during 18th-20th, 2011 held at Dept. of Botany and Biotechnology, Bon Secours College for Women, Thanjavur - 613 006. **Paper presented:** “Effect of plant growth regulators on *in vitro* propagation of *Bacopa monnieri* L. and its transformation to field condition. M. Vijayakumar, R. Stephen, **R. Vijayakumar** and Banupriya, S.,
 21. *Participated* – National Conference on “*Explorations of the Natural Bioactive Compounds from the Marine Resources*” (BIOACTIVA' 11) during February 10th-11th, 2011, held at Dept. of Marine Science, Bharathidasan University, Tiruchirappalli – 24. **Paper presented:** Antimicrobial potential of marine actinomycetes isolated from Palk Strait region of Bay of Bengal, India. **R. Vijayakumar**, T. Thajuddin and A. Panneerselvam.
 22. National Symposium on “*Prospects and Retrospects in Microbial Technology*” jointly organized by Dept of Microbiology, Bharathidasan University, Tiruchirappalli and Dept. of Microbiology and Biotechnology, Cauvery College for Women, Tiruchirappalli, during 17th-18th February, 2012. **Papers presented:**
 1. Antimicrobial potentiality of *Streptomyces matensis* VPTS32 – a marine actinomycete isolated from Palk Strait of Bay of Bengal, South India. **R. Vijayakumar**, T. Thajuddin and A. Panneerselvam.
 2. Diversity of terrestrial actinobacteria from various cultivated field soils of Thanjavur district, Tamilnadu, India. A. Cholarajan and **R. Vijayakumar**.
 3. Diversity of marine actinobacteria from east coast of Tamilnadu, India. D. Thirumurugan and **R. Vijayakumar**.

23. *Louis Pasteur Memorial International Symposium on Harnessing Microbes for Human Health and Resource Recuperation during 7th-8th August, 2012* held at Post Graduate & Research Department of Microbiology, Dr. N.G.P. Arts and Science College, Coimbatore - 48. **Papers presented:**
1. Studies on the Diversity and Antimicrobial Activity of Terrestrial Actinobacteria from the Crop Fields of Thanjavur District, Tamilnadu, India. Cholarajan, A. and **Vijayakumar, R.**
 2. Screening of Antibacterial Compound Producing Marine Actinobacteria from East Coast of India against Fish Pathogenic bacterium. Thirumurugan, D. and **Vijayakumar, R.**
 3. Isolation, Characterization and Antibacterial Activity of Terrestrial Actinobacteria from the soils of Thanjavur District, South India. G. Vaijyanthi, A. Cholarajan and **R. Vijayakumar**
24. 10th IAAM National Conference on “*Exploring the Potentials of Microbes for Bioscience, Biotechnology & Medicine*” *MICROCIENCIA – 2012* during 17th-18th December, 2012 held at Centre for Environmental Nuclear Research, SRM University, Chennai – 603 203, Tamilnadu. **Paper presented:** Antifungal activity of marine actinobacteria against human pathogen from east coast of India. D. Thirumurugan and **R. Vijayakumar** and T. Murugan.
25. *Participated* – National Seminar on “*Cutting Edge Microbial Research and Challenges*” during February 25th-26th, 2013 held at Dept. of Microbiology, Bharathidasan University, Tiruchirappalli – 24. **Paper presented:** Phytochemical analysis and antibacterial activity of the leaves of *Coccinia indica*. A. Cholarajan and **R. Vijayakumar**.
26. National Seminar on “*Emerging Novel Avenues and Opportunities in Modern Biological Sciences*” during March 1st-2nd, 2013 held at Dept. of Microbiology, M.R. Government Arts College, Mannargudi – 614 001, Thiruvavur (District), Tamilnadu. **Papers presented:**
1. Purification and characterization of bacteriocin produced by bacterial isolates from fermented vegetables. A. Cholarajan and **R. Vijayakumar**.
 2. Molecular characterization of bioactive compound producing streptomycetes isolated from Coromandal coast of Tamilnadu with reference to 16S rRNA gene sequencing. **Vijayakumar, R.**, Thajuddin, N. and Panneerselvam, A.
 3. Antifungal activity of marine actinobacteria isolated from east coast regions (ECR) of Tamilnadu, South India. D. Thirumurugan and **R. Vijayakumar (Awarded with Special Prize)**.
 4. Antibacterial activity of marine actinobacteria isolated from Point Calimere, east coast of India. G. Vaijyanthi, A. Cholarajan and **R. Vijayakumar**.
27. *Participated* - National Seminar “*Microbes and Human Welfare*” on 20th-21st July, 2013 at Dept. of Microbiology, Bharathidasan University, Tiruchirappalli in collaboration with National Academy of Biological Science, Chennai. Papers presented:
1. Diversity of bioactive compound producing marine actinobacteria from Palk Strait region of Bay of Bengal during tsunami era – a survey. **R. Vijayakumar**, A. Panneerselvam and N. Thajuddin.
 2. Isolation and characterization of plant growth promoting rhizobacteria (PGPR) from rhizosphere soils of *Cicer arietinum*. G. Vaijyanthi, A. Cholarajan and **R. Vijayakumar**.
 3. Separation, purification and characterization of secondary metabolites from terrestrial soil actinobacteria. A. Cholarajan and **R. Vijayakumar**.
 4. Screening, isolation and purification of antibacterial compounds from marine actinobacteria against fish pathogens. D. Thirumurugan and **R. Vijayakumar**.
28. National Conference on “*New Opportunities and Challenges in Microbial Research*” on 5th-6th Sep., 2013 at Dept. of Microbiology, Bharathidasan University, Tiruchirappalli. Papers presented:
1. Separation and purification of secondary metabolites from terrestrial soil actinobacteria. A. Cholarajan and **R. Vijayakumar**.
 2. Optimization of antibacterial compounds production by *Streptomyces* spp. isolated from the marine soils of east coast of India. Thirumurugan, D. and **Vijayakumar, R.**
 3. Characterization of potential plant growth promoting rhizobacteria for the growth enhancement of black gram. G. Vaijyanthi and **R. Vijayakumar**.
29. National Conference on “*Global Trends and Challenges in Biosciences (Microzon 2014)*” on 6th December, 2014, held at Dr. M.G.R. Janaki Ammal College of Arts and Science for Women, Chennai, Tamilnadu. Paper presented: Biodiversity and exploration of bioactive actinobacteria from Muthupet mangrove soil, east coast of India (OP-73). Vaijyanthi, G. and **Vijayakumar, R.**
30. One Day National Seminar on “*Contemporary Molecular Techniques and their Potential Applications in Current Applied Biology*” (Sponsored by the UGC), January 30th, 2015 held at Research Department of Microbiology, M.R. Government Arts College, Mannargudi - 614 001, Tamilnadu. Paper presented:
1. Diversity and screening of extra-cellular enzyme activity of actinobacteria isolated from Muthupet mangrove sediments, Bay of Bengal. Vaijyanthi, G. and **Vijayakumar, R. (Awarded Best Poster presentation 1st prize)**.
 2. Marine actinobacterial diversity of from Palk Strait coastal region of Bay of Bengal. Manikandan, R. and **Vijayakumar, R. (Awarded Best Poster presentation 2nd prize)**.
31. *Participated* - National Conference on “*Phytochemicals in Medicinal Plants and Food (PHYMED)*” on 30th & 31st July, 2015 held at Department of Biochemistry, Bharathidasan University Constituent College for Women, Orathanadu – 614 625, Thanjavur District, Tamilnadu. Paper presented:
1. Biological activity of actinobacteria from marine soils of West Coast of India. Vaijyanthi, G., Anitha, S. and **R. Vijayakumar**.

2. Screening, production and characterization of novel antifouling compounds against biofouling bacteria from poultry. Manikandan, R. and **Vijayakumar, R.**
3. Preliminary studies on phytochemicals and antimicrobial activity of solvent extracts of *Coriandrum sativum* L. roots (Coriander). Porselvi, A. and **Vijayakumar, R.**
32. National Conference on “*New Avenues in Life Science: Trends and Challenges*” on 28th & 29th January, 2016 held at Dhanalaskshmi Srinivasan College of Arts and Science for Women, Perambalur – 621 212, Tamilnadu, India. Papers presented:
 1. Screening of chitinolytic marine actinobacteria for biological control of *Fusarium oxysporum*: Causative agent of damping-off and basal rot diseases of onion. G. Vajjayanthi and **R. Vijayakumar.**
 2. Isolation, screening and characterization of antifouling compound producing marine actinobacteria from Palk Strait regions of Tamilnadu. R. Manikandan, **R. Vijayakumar.**
33. National Seminar on “*Frontiers in Biosciences*” (FIB - 2016) on 5th March, 2016 held at P.G. & Research Departments of Microbiology & Biotechnology Jamal Mohamed College (Auto.), Tiruchirappalli – 620 020, India. Papers presented:
 1. Detection of biofilm bacteria from poultry production industry of Tamilnadu. R. Manikandan, **R. Vijayakumar.**
 2. Optimization of antibacterial metabolites production by marine actinobacteria isolated from mangrove sediments of Bay of Bengal, Tamilnadu. G. Vajjayanthi and **R. Vijayakumar.**
34. ICMR Sponsored One Day National Seminar on “*Awareness on Pathogen Carriage, Prevention and Personal Health Promotion Among Rural Adolescent Learners*” on 28.07.2017 held at Research Department of Microbiology, M.R. Government Arts College, Mannargudi - 614 001, Tamilnadu. Paper presented: Antibacterial activity of marine actinobacteria against biofilm forming bacteria isolated from poultry samples. R. Manikandan, **R. Vijayakumar.**
35. Participated - National Conference on “*Recent Advances in Modern Biology and Rural Development (RAMBARD - 2017)*” Organized by Department of Botany & Microbiology, A.V.V.M. Sri Pushpam College (Auto.), Poondi, Thanjavur in collaboration with Department of Microbiology, Bharathidasan University, Trichy - 24 during 5th & 6th October, 2017. Paper presented: Isolation and characterization of industrial important Multi-enzymes from marine actinobacteria. G. Vajjayanthi and **R. Vijayakumar.**
36. Participated - One-Day National seminar cum workshop on “*Biological and Medical Applications of Foldscope and Mycorrhizal Commercial Productions*” on 31.02.2019 held at PG and Research Department of Microbiology, M.R. Govt. Arts College, Mannargudi – 614 001, Thiruvarur (District), Tamilnadu.
37. Participated - National Conference on “*Microbiome Research: Understanding the Diversity to Improve Plant, Animal, Human and Environmental Health*” organized by C. G. Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli - 394 350, Surat, Gujarat in collaboration with Associations of Microbiologists of India between 07.03.2019 and 09.03.2019. Papers presented:
 1. Evaluation of Synthetic Fertilizers Tolerance Skills of Soil Fungi Identified Through Paper Microscope. K. Karthika and **R. Vijayakumar.** (Awarded as best poster presentation 2nd prize).
 2. Isolation and Characterization of Chitinase Producing Actinobacteria from Muthupet Mangrove Soil, South India. G. Vajjayanthi and **R. Vijayakumar.** (Awarded as best oral presentation 1st prize).

International

1. Participated - International Symposium on *Recent Advances in Biological Sciences* during October 11-12th, 2001 at K.S.R. Centre for Biological Sciences, K.S.R. College of Arts and Science, Thokkavadi, Tiruchengodu - 637 209, Tamilnadu.
2. Participated – International Conference on “*Oppourtunistics and Challenges in Biotechnology and Environmental Sciences*” during 22nd-23rd Feb., 2007 at Department of Botany, Vellalar College for Women, Erode. **Paper presented:** Isolation, characterization and antimicrobial activity of *Streptomyces griseus* from saltpan soils of Vedaranyam, Tamilnadu, India, **R. Vijayakumar, C. Muthukumar, N. Thajuddin** and A. Panneerselvam.
3. International Conference on “*Reasserting Microbial Biotechnology to Deflate Global Disease Burden (RMBT'15)*” (Sponsored by DBT, Govt. of India, New Delhi), 28th & 29th September, 2015 held at Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli – 627 012, Tamil Nadu, India. Papers presented:
 1. Isolation and screening of antifouling activity of marine actinobacteria from Palk Strait coastal region of Bay of Bengal, South India. Manikandan, R. and **Vijayakumar, R.**
 2. Biocontrol efficiency of chitinolytic actinobacteria isolated from Muthupet mangrove environment, east coast of India. G. Vajjayanthi and **R. Vijayakumar.**
4. International Conference on “*Health, Food and Energy Security*” on October 1st, 2015 held at Bharathidasan College for Women, Puducherry, India. Paper presented: Screening the antifouling activity of marine actinobacteria isolated from Palk Strait region of Tamilnadu coast. Manikandan, R. and **Vijayakumar, R.**
5. International Conference on *Innovative Research in Life Science* on 6th March, 2017 at Department of Life Sciences, Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur – 621 212. Papers presented:
 1. Antifouling and antibiofilm activity of marine actionbacteria isolated from Palk Strait coastal regions of Tamilnadu, India. R. Manikandan, **R. Vijayakumar.**
 2. Isolation, screening and characterization of actinobacteria from mangrove soil for their potential to produce antifungal agents. G. Vajjayanthi and **R. Vijayakumar.**
6. International Seminar on “*Microbes, Microbial Processes and Products (MMPP)*” on 12.09.2017 held at P.G. and Research Department of Microbiology, STET Women’s College, Mannargudi – 614 016, Tamilnadu, India. Papers presented:
 1. Isolation, characterization and antifungal activity of chitinase producing marine *Nocardioopsis alba* VMK3 against phyto-pathogenic fungi. G.Vajjayanthi and **R. Vijayakumar**

2. Prevalence, distribution and phenotypic identification of *Vibrio* sp. in fishes caught off Chennai, Bay of Bengal. Ravikumar, V. and **R. Vijayakumar**.
3. Antibiofilm compounds from *Streptomyces* sp. VS6, isolated from Saltpan soil, Vedharanyam, Tamilnadu, India. R. Manikandan, **R. Vijayakumar**.
7. International Seminar on “Life Science – Recent Trends and Applications” on 09.02.2018 held at Departments of Life Sciences, Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur – 621 212. Paper presented: Actinobacteria *Streptomyces* spp. as a potent for chitinase production and bioactive substrate for phyto-pathogens, G. Vajjayanthi, A. Cholarajan and **R. Vijayakumar**.
8. Participated: *International Symposium on Fungal Biology: Advances, Applications and Conservation & 45th Annual Meeting of Mycological Society of India (MSI)*, November 19-21, 2018, held at National Fungal Culture Collection of India (NFCCI), Agharkar Research Institute, Pune - 411 004, Maharashtra. Paper presented: Occurrence and fertilizer tolerance capacity of soil fungi isolated from cultivated soils of Perambalur district, Tamilnadu, K. Karthika and **R. Vijayakumar**.
9. International Conference on *Conservation of Natural Resources and Traditional Siddha Pharmacological Approach for Your Future* and DBT Foldscope Workshop (CNRTSPA – 2018) on 12-14th Dec. 2018 at William Research Centre, Nagercoil, Tamilnadu. Paper presented: Foldscope: A Modern Research Tool for the Exploration of Soil Fungi. K. Karthika and **R. Vijayakumar** (*Awarded as best oral paper*).
10. *International Seminar on “Recent Trends in Biological Science”* on 15.02.2019 held at Life Science Departments, Dhanalakshmi Srinivasan College of Arts & Science for Women (Autonomous), Perambalur District, Tamilnadu. Paper presented: Application of Foldscope as a Modernized Tool for the Diversity of Fungi and its Tolerance against Synthetic Fertilizers. K. Karthika and **R. Vijayakumar**.
11. *International Seminar on “Microbial Interventions for the Welfare of Human Beings-(MIWHB -2019)”* on 09.08.2019 held at PG and Research Department of Microbiology, Sengamala Thayaar Educational Trust Women’s College, Sundarakkottai, Mannargudi - 614 016, Tamilnadu. Paper presented:
 1. Assessment of chemical fertilizers tolerance skill and plant growth promoting activities of soil fungi identified through Foldscope: a based paper microscope. K. Karthika and **R. Vijayakumar**.
 2. Azo dye biodegradation potential of bacterial isolates from cattle excreta. G.Vajjayanthi and **R. Vijayakumar**.
 3. Nutritional value of different oyster mushrooms grown on different paddy straw substrate. A. Porselvi and **R. Vijayakumar**.

State/Regional

1. Golden Jubilee State Level Seminar on *Innovative Approaches to Plant Sciences* during 24th-25th Feb., 2005 at Department of Botany, A.V.C. College (Auto.), Mannampandal, Mayiladuthurai - 609 305, Tamilnadu. **Paper Presented:** Studies on leaf spot, fruit rot diseases of Guava and its control. C. Muthukumar, **R. Vijayakumar**, T. Kumar, N. Nadimuthu, A. Panneerselvam and R. Saravanamuthu.
2. State level Seminar on *Scope and Status of Phytochemistry and Bioremediation* during 10-11th Aug., 2005 at Department of Botany, K.N.G.A. College for Women (Auto.), Thanjavur, Tamilnadu. **Paper Presented:** Studies on fruit rot disease of Chilli (*Capsicum annum* L.) and its control. C. Muthukumar, **R. Vijayakumar**, T. Kumar, A. Panneerselvam and R. Saravanamuthu.
3. *Participated:* State Level Seminar on “*Emerging Advancements in Biosciences*” during 17th March, 2012 held at the Dept. of Microbiology & Biotechnology, Jamal Mohamed College (Auto.), Tiruchirappalli - 620 020. **Papers presented:**
 1. Screening of antibacterial potentials of marine actinobacteria against fish pathogen. D. Thirumurugan and **R. Vijayakumar**.
 2. Diversity and antimicrobial activity of terrestrial actinobacteria isolated from various cultivated field soils of Thanjavur district, Tamilnadu. A. Cholarajan and **R. Vijayakumar**.
4. One Day State Level Seminar on “*Newly Emerging Pathogens, Epidemic Diseases and their Management Challenges (NEPED & MC)*” on March 14th, 2014 held at Research Department of Microbiology, M.R. Government Arts College, Mannargudi – 614 001, Tamilnadu. Papers presented:
 1. Optimization of antimicrobial compound production by *Streptomyces griseus* Isolated from saltpan soils of Tuticorin, Gulf of Mannar, India. **Vijayakumar, R.**, Thajuddin, N. and Panneerselvam, A.
 2. Screening of extra-cellular enzyme activity of marine actinobacteria isolated from Muthupet mangrove soils. Vajjayanthi, G. and **Vijayakumar, R.**
 3. Optimization of culture conditions for enhanced antibacterial activity of *Streptomyces* sp. ECR-64 isolated from east coast region, Tamilnadu, India. Thirumurugan, D. and **Vijayakumar R.** (*Awarded with Special Prize*).
5. *Participated* – One Day Seminar on “*Awareness on Environmental Health and Environmental Issues*” during 16th February, 2017 at Bharathidasan University Constituent College, Perambalur – 621107, organized by Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli – 620 024.

16S rDNA Sequences submitted in NCBI/EMBL/DBJ

Actinobacteria

- 1) *Streptomyces* sp. VPTS31 (Accession number: DQ845201) - Thajuddin, N., Panneerselvam, A., **Vijayakumar, R.**, Muthukumar, C., Muralidharan, G.
- 2) *Streptomyces* sp. VPTS32 (Accession number: DQ845202) - Thajuddin, N., Panneerselvam, A., **Vijayakumar, R.**, Muthukumar, C., Muralidharan, G.

- 3) *Streptomyces* sp. VPTSA14 (Accession number: DQ845203) - Thajuddin, N., Panneerselvam, A., **Vijayakumar, R.**, Muthukumar, C., Muralidharan, G.
- 4) *Streptomyces* sp. VPTSA18 (Accession number: DQ845204) - Thajuddin, N., Panneerselvam, A., **Vijayakumar, R.**, Muthukumar, C., Muralidharan, G.
- 5) *Streptomyces* sp. (DOSMB-A107) (Accession number: JQ638519) - Baskaran, R., Mohan, P.M., Sachithanandam, V. and **Vijayakumar, R.**
- 6) *Streptomyces albobruegelii* ECR64 (Accession number: KF410672) - Thirumurugan, D., **Vijayakumar, R.**, Dhanasekaran, D., Thajuddin, N. and Jahangir, J.
- 7) *Streptomyces labedae* ECR77 (Accession number: KF158225) - Thirumurugan, D., **Vijayakumar, R.**, Dhanasekaran, D., Thajuddin, N. and Jahangir, J.
- 8) *Streptomyces champavatii* KV2 (Accession number: KF454869) - Cholarajan, A., Vijayakumar, R., Dhanasekaran, D. and Panneerselvam.
- 9) *Streptomyces uncialis* PV1 (Accession number: KF728386) - Cholarajan, A., Vijayakumar, R., Dhanasekaran, D. and Panneerselvam.
- 10) *Nocardioopsis alba* strain VMK3 16S (Accession number: KU937319) - Vaijyanthi, G. and Vijayakumar, R.
- 11) *Streptomyces pluripotens* strain VMK9 16S (Accession number: KU942605) - Vaijyanthi, G. and Vijayakumar, R.
- 12) *Streptomyces althioticus* VS6 (Accession number: MF716850) - Manikandan, R. and Vijayakumar, R.
- 13) *Nocardioopsis synnemataformans* MS3 (Accession number: MF716851) - Manikandan, R. and Vijayakumar R.
- 14) *Streptomyces parvisporogenes* KL3 (Accession number: MH986192) - Kalyanasundaranar, A. Vijayakumar, R. and Thirumurugan, D.

Bacteria

- 1) *Vibrio alginolyticus* ECRW01 - (Accession number: MF996866) – Ravi Kumar, O.V. and **Vijayakumar R.**
- 2) *Vibrio harveyi* ECRF02 - (Accession number: MF996867) – Ravi Kumar, O.V. and **Vijayakumar R.**
- 3) *Vibrio alginolyticus* ECRS01 - (Accession number: MF996868) – Ravi Kumar, O.V. and **Vijayakumar R.**
- 4) *Vibrio alginolyticus* ECRF01 - (Accession number: MF996869) – Ravi Kumar, O.V. and **Vijayakumar R.**
- 5) *Vibrio parahaemolyticus* ECRF03 – (Accession number: MF996870) – Ravi Kumar, O.V. and **Vijayakumar R.**

Research Articles Published (H index: 12; i10 index: 14) (RG Score: 14.05) (Total impact factor: 9.971; Total citations 834) International

S. No	Title of the paper	Impact factor	Index
1.	Muthukumar, C., Muralidharan, G., Vijayakumar, R. , Panneerselvam, A. and Thajuddin, N., 2007. Cyanobacterial Biodiversity from different freshwater ponds of Thanjavur, Tamilnadu (India). <i>Acta Botanica Malacitana</i> , 32 : 17-25.	-	Scopus; H index 4
2.	Vijayakumar, R. , Muthukumar, C., Thajuddin, N., Panneerselvam, A. and Saravanamuthu, R., 2007. Studies on the diversity of actinomycetes in the Palk Strait region of Bay of Bengal, India. <i>Actinomycetologica</i> , 21 (2): 59-65.	RG IF: 0.53	- 111 citations
3.	Vijayakumar, R. , Sudha, S.S. and Panneerselvam, A., 2008. A comparative study on cultivation and nutritional status of oyster mushroom <i>Pleurotus ostreatus</i> on different substrates. <i>J. Sci. Trans. Environ. Technov.</i> , 1 (4): 209-212.	-	UGC approved
4.	Remya, M. and Vijayakumar, R. , 2008. Isolation and characterization of marine antagonistic actinomycetes from West Coast of India. <i>Facta Universitatis Series Med. Biol.</i> , 15 (1): 13-19.	-	M52 155 citations
5.	Vijayakumar, R. , Seethalakshmi, V., Anitha, S. and Saravanamuthu, R., 2009. Isolation and characterization of antagonistic actinomycetes from Coimbatore soils, Tamilnadu, India. <i>J. Sci. Trans. Environ. Technov.</i> , 2 (4): 191-201.	-	Google Scholar
6.	Murugesan, S., Manoharan, C., Vijayakumar, R. and Panneerselvam, A., 2010. Isolation and Characterization of <i>Agrobacterium rhizogenes</i> from the Root Nodules of some Leguminous Plants. <i>Int. J. Microbiol. Res.</i> 1 (3): 92-96.	-	Copernicus & Google Scholar
7.	Vijayakumar, R. , Murugesan, S. and Panneerselvam, A., 2010. Isolation, characterization and antimicrobial activity of actinobacteria from Point Calimere coastal region, East Coast of India. <i>Int. Res. J. Pharm.</i> , 1 (1): 358-365.	-	Google Scholar
8.	Vijayakumar, R. , Murugesan, S., Cholarajan, A. and Sakthi V., 2011. Larvicidal potentiality of marine actinomycetes isolated from Muthupet mangrove, Tamilnadu, India. <i>Int. J. Microbiol. Res.</i> 1 (3): 179-183.	-	Copernicus & Google Scholar
9.	Baskaran, R., Vijayakumar, R. and P.M. Mohan. 2011. Enrichment method for the isolation of bioactive actinomycetes from mangrove sediments of Andaman Islands, India. <i>Malaysian J. Microbiol.</i> , 7 (1): 22-28.	0.39 <i>125 citations</i>	Scopus indexed H index 11
10.	Murugesan, S., Vijayakumar, R. and Panneerselvam, A., 2011. Characterization of <i>Agrobacterium rhizogenes</i> isolated from the nodules of some leguminous plants. <i>World Appl. Sci. J.</i> , 15 (1): 32-37.	-	Scopus
11.	Kasthuri, J., Cholarajan, A., Vijayakumar, R. and Muthukumar, P., 2011. Physico-chemical and microbial analysis of coir industry effluent. <i>Asian J. Res. Pharm. Sci.</i> , 1 (2): 44-46.	-	Google Scholar

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13.	Vijayakumar, R., Panneer Selvam, K., Muthukumar, C., Thajuddin, N., Panneerselvam, A. and Saravanamuthu R., 2012. Antimicrobial potentiality of a halophilic strain of <i>Streptomyces</i> sp. VPTSA18 isolated from the saltpan environment of Vedaranyam, India. Ann. Microbiol. , 62 (3): 1039-1047.	1.431	-
14.	Vijayakumar, R., Gopika, G., Dhanasekaran, D. and Saravanamuthu, R., 2012. Isolation, characterization and antifungal activity of marine actinobacteria from Goa and Kerala, the west coast of India Arch. Phytopathol. Pl. Prot. , 45 (9): 1010-1025.	0.560	-
15.	Deepa, S., Panneerselvam, A., Dhanasekaran, D., Thajuddin, N. and Vijayakumar, R. , 2012. Diversity and antimicrobial potential of actinobacteria from saltpan environment. Global Ad. Res. J. Microbiol. , 1 (8): 140-148.	-	Scopus
16.	Panneerselvam, A., Bharathidasan, Murugesan, S. and Vijayakumar, R. , 2012. Antibiotic susceptibility pattern of <i>Escherichia coli</i> isolated from urinary tract infected (UTI) patients. Int. J. Biotechnol. Biosci. , 2 (1): 83-86.	-	-
17.	Cholarajan, A. and Vijayakumar, R. , 2013. Isolation, identification, characterization and screening of antibiotic-producing actinobacteria from the crop fields of Thanjavur district, Tamilnadu, India. Int. J. Recent Sci. Res. , 4 (1): 55-60.	-	UGC approved & Copernicus
18.	Thirumurugan, D. and Vijayakumar, R. , 2013. Exploitation of antibacterial compound producing marine actinobacteria against fish pathogens isolated from less explored environments. Asian J. Res. Pharm. Sci. , 3 (2): 75-78.	-	Google Scholar
19.	Thirumurugan, D. and Vijayakumar, R. , 2013. A potent fish pathogenic bacterial killer <i>Streptomyces</i> sp. isolated from the soils of east coast region, South India. J. Coastal Life Medicine , 1 (3): 175-180.	-	Copernicus
20.	Vijayakumar, R. and R. Malathi, 2014. Isolation, characterization and antibacterial activity of actinobacteria from dye polluted soils of Tirupur. Facta Universitatis Med. Biol. , 16 (1): 43-48.	-	M52
21.	Vaijayanthi, G. and Vijayakumar, R. , 2014. Physico-chemical analysis of marine sediment soils from Muthupet mangrove environments in Tamilnadu, India. Int. J. Adv. Life Sci. 7 (3): 417-423.	-	Copernicus
22.	Vijayakumar, R. , Thajuddin, N. and Panneerselvam, A., 2014. Diversity of bioactive compound producing actinobacteria isolated from natural Disaster affected marine environments. Sci. Trans. Environ. Technov. , 8 (1): 27-32.	-	UGC approved
23.	Thirumurugan D. and Vijayakumar R. , 2015. Characterization and structure elucidation of antibacterial compound of <i>Streptomyces</i> sp. ECR77 isolated from East Coast of India. Curr. Microbiol. DOI 10.1007/s00284-015-0780-3, 70 : 745-755.	1.595	SCI, UGC
24.	Thirumurugan, D., Sankari, D. and Vijayakumar R. , 2015. Screening of Chitinase Production and Antifungal Activity of <i>Streptomyces</i> sp. ACT7 from East Coast Region, South India. Int. J. Pharm. Pharm. Sci. , 7 (5): 38-41.	-	Scopus
25.	Vijayakumar, R. , Manikandan, R., Vaijayanthi, G and Pooja, E.S., 2015. Production and optimization of extracellular enzymes of actinobacteria isolated from textiles dye polluted soils of Tirupur, South India. Int. J. Sci. Technol. , 3 (6): 141-152.	-	Copernicus
26.	Manikandan, R. and Vijayakumar, R. , 2015. Studies on the marine actinobacterial diversity in the Palk Strait Coastal Region of Bay of Bengal. Sci. Trans. Environ. Technov. , 8 (3): 115-121.	-	-
27.	Ravikumar V. and Vijayakumar R. , 2015. Distribution and phenotypic identification of pathogenic <i>Vibrio alginolyticus</i> and other <i>Vibrio</i> sp isolated from Chennai East Coast Region, South India. Int. J. Curr. Res. , 7 (11): 22245-22250.	-	Copernicus
28.	Vijayakumar, R. , Vaijayanthi, G. and Sandhiya, K., 2015. Decolourization potentiality of actinobacteria on synthetic textile dyes and effluents - a comparative study. Sci. Trans. Environ. Technov. , 8 (4): 178-184.	-	-
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31.	Cholarajan A. and Vijayakumar R. 2016. Screening of antibiotic (staurosporine) producing actinobacteria (<i>Streptomyces</i> sp.) from terrestrial environment soil of Thanjavur district, Tamilnadu, India. European J. Biomed. Pharma. Sci. , 3 (3): 480-493.	-	Copernicus & Google Scholar
32.	Vaijayanthi, G and Vijayakumar, R. , 2016. Screening of chitinolytic actinobacteria for biological control of <i>Fusarium oxysporum</i> : a pathogen causing damping-off and basal rot diseases in onion. World J. Pharm. Pharmac. Sci. , 5 (1): 940-947.	0.19	Copernicus & Google Scholar

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40.	Thirumurugan, D., Vijayakumar, R. , Vadivalagan, C., Alam Khan, M.K. and Karthika, P., 2018. Isolation, structure elucidation and antibacterial activity of methyl-4,8-dimethylundecanate from the marine actinobacterium <i>Streptomyces albogriseolus</i> ECR64. <i>Microbial Pathogenesis (Elsevier)</i> , 121: 166-172.	2.581	Elsevier, SCI, UGC
41.	Porselvi, A. and R. Vijayakumar. 2019. Evaluation of paddy straw varieties on the cultivation and nutritional value of two oyster mushroom species. <i>Int. J. Res. Adv. Tech.</i> , 7(5): 556-563.	-	UGC Approved (S. No. 48768)
42.	Vaijayanthi, G. and R. Vijayakumar. 2019. Isolation and identification of fungal pathogens in onion crop from Perambalur District, South India. <i>Sci. Trans. Environ. Technov.</i> 8(3): 132-135.	-	-
43.	Porselvi, A. and Vijayakumar, R. , 2020. Strain improvement of <i>Pleurotus eous</i> and <i>Pleurotus florida</i> by protoplast fusion. <i>J. Information Comp. Sci.</i> , 10(3): 1537-1547.	RG Score 0.15	UGC Group II
44.	Vijayakumar, R. and Karthika, K. 2019. Foldscape: a simplified tool for the assessment of the diversity of synthetic fertilizers tolerance soil fungi. Manuscript communicated to <i>Sci. Trans. Environ. Technov.</i>	-	-
45.	Syiemiong, D., Jha, D.K., Vijayakumar, R. , Goswami, S., Lamare, K.W., Wahlang, C., Lyngkhoi, R., Syiemiong, P. and Arbenz, T. 2020. Antimicrobial potential of cultured <i>Streptomyces</i> from Krem Dam, a sandstone cave in Meghalaya, India. Manuscript submitted to <i>Geomicrobiol. J.</i>	-	-

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2	Vijayakumar, R. , Muthukumar, C., Thajuddin, N. and Panneerselvam, A. 2004. Screening of antagonistic actinomycetes from East Coast of India. <i>J. Soil Biol. Ecol.</i> , 24(1&2): 71-77.	-	-
3	Muthukumar, C., Vijayakumar, R. , Kumar, T., Panneerselvam, A., Nadimuthu, N. and Saravanamuthu, R. 2006. Studies on the antagonism of some soil fungi against <i>Drechslera ellisii</i> a fruit rot causing organisms in Guava. <i>J. Soil Biol. Ecol.</i> , 26(1&2): 117-122.	-	-
4	Vijayakumar, R. , Muthukumar, C., Kumar, T. and Saravanamuthu, R., 2006. Characterization of a dandruff fungus, <i>Malassezia furfur</i> (Robin) Baillon and its control using plant extracts. <i>Indian J. Dermatol.</i> , 51(2): 145-148.	1.411 54 citations	Scopus, SCI, Web of Science, PubMed, UGC
5	Virali, M.S., Vennila, S., Vignesh, S., Vikash, K. and Vijayakumar, R. and Panneerselvam, A., 2007. Antagonistic activity of actinomycetes isolated from Marudhamalai Hills, Western Ghats. <i>J. Soil Biol. Ecol.</i> , 27(1 & 2): 19-25.	-	-
6	Vijayakumar, R. , Muthukumar, C., Thajuddin, N., Panneerselvam A. and Saravanamuthu, R., 2008. Antagonistic activity of some actinomycetes isolated from marine soils of Point Calimere, East Coast of India. <i>Indian J. Appl. Microbiol.</i> , 89(1): 60-66.	-	-
7	Vijayakumar, R. and Mythili, P., 2008. Studies on antimicrobial effect of <i>Aegle marmelos</i> and <i>Allium sativum</i> . <i>J. Microb. World</i> , 10(1): 38-42.	-	-
8	Panneer Selvam, K., Vijayakumar, R. , Ravikumar, K., Thajuddin, N., Panneerselvam, A. and Manoharan, C., 2009. PCR analysis of <i>cyl</i> operon genes encoding cytolytic toxin – a virulence factor among the clinical isolates of <i>Enterococcus</i> spp. <i>Res. J. Biol. Sci.</i> , 1(4): 43-49.	-	-
9	Vijayakumar, M., Vijayakumar, R. and Stephen, R., 2010. <i>In vitro</i> propagation of <i>Bacopa monnieri</i> L. - a multipurpose medicinal plant. <i>Indian J. Sci. Technol.</i> , 3(7): 782-787.	-	Web of Science indexed
10	Vijayakumar, M., Stephen, R. and Vijayakumar, R. , 2010. Effect of plant growth regulators on <i>in</i>	-	-

	<i>in vitro</i> propagation of <i>Bacopa monnieri</i> L. - A multipurpose medicinal plant. J. Nat. Sci. Technol. Life Sci. Bioinform. , 2: 217-226.		
11	Murugesan, S., Vijayakumar, R. and Panneerselvam, A., 2011. Antifungal activity of medicinal plants against plant pathogenic fungus <i>Fusarium oxysporum</i> . J. Pharm. Res. , 4(3): 843-844.	-	-
12	Bharathidasan, R., Murugesan, S., Vijayakumar, R. and Panneerselvam, A., 2011. Prevalence of <i>Staphylococcus aureus</i> in various health care workers. J. Pharm. Res. , 4(11): 4047-4049.	-	-
13	Murugesan, S., Vijayakumar, R. and Panneerselvam, A., 2011. Evaluation of phytochemical constituents from the leaves of <i>Memecylon umbellatum</i> Burm.f. Res. J. Pharm. Biol. Chem. Sci. , 2(4):1145-1152.	-	UGC approved & Google Scholar
14	Vaijayanthi, G., Cholarajan, A. and Vijayakumar, R. , 2012. Isolation, characterization and antibacterial activity of terrestrial actinobacteria in the soils of Thanjavur district, Tamil Nadu, India. Res. J. Sci. Tech. , 4(3): 132-139.	-	
15	Cholarajan, A. and Vijayakumar, R. , 2013. Analyses of physical and chemical parameters of the rhizosphere soils from Thanjavur district, Tamil Nadu, India. J. Ener. Environ. Sci. Photon , 127: 219-223.	-	
16	Thirumurugan, D. and Vijayakumar, R. , 2013. Exploitation of antibacterial compound producing marine actinobacteria against fish pathogens isolated from less explored environments. Res. J. Sci. Technol. , 5(2): 264-267.	-	
17	Thirumurugan, D. and Vijayakumar, R. , 2013. Antifungal activity of marine actinobacteria isolated from east coast regions (ECR) of Tamilnadu, South India. Wide Spectrum Res. J. , 1(9): 37-41.	-	
18	Vaijayanthi, G., Cholarajan, A. and Vijayakumar, R. , 2013. Antibacterial activity of marine actinobacteria isolated from Point Calimere, east coast of India. Wide Spectrum Res. J. , 1(10): 14-20.	-	
19	Cholarajan, A. and Vijayakumar, R. , 2013. Status of micronutrients in terrestrial soils of Thanjavur district, Tamilnadu, India. E3 J. Agri. Res. Develop. , 3(4): 59-63	-	Copernicus, SCI & Google Scholar
20	Cholarajan, A., Vaijayanthi, G. and Vijayakumar, R. , 2014. Isolation and characterization of plant growth promoting rhizobacteria (PGPR) from rhizosphere soils of <i>Cicer arietinum</i> . Wide Spectrum Res. J. , 2(6): 60-69.	-	-
21	Manikandan, R. and Vijayakumar, R. , 2015. Marine actinobacterial diversity from Palk Strait coastal region of Bay of Bengal. Wide Spectrum Res. J. , 3(11): 25-34.	-	-
22	Vaijayanthi, G. and Vijayakumar, R. , 2015. Diversity and screening of extra-cellular enzyme activity of actinobacteria isolated from Muthupet mangrove sediments, Bay of Bengal. Wide Spectrum Res. , 4(5): 45-54.	-	-
23	Manikandan, R. and Vijayakumar, R. , 2016. Screening of antifouling compound potential marine actinobacteria against biofouling bacteria isolated from poultries of Namakkal District, South India. Res. J. Sci. Technol. , 8(2): 1-7.	-	-
24.	Porselvi, A. and R. Vijayakumar. 2020. Effect of paddy straw substrate on the nutritional composition of oyster mushroom (<i>Pleurotus florida</i> and <i>Pleurotus eous</i>). Manuscript communicated to Agri. Res. J.	-	Indian Citation Index, Google Scholar.
25.	R. Vijayakumar. 2020. Bio-control measures of <i>Fusarium oxysporum</i> basal rot of onion using marine actinobacterium <i>Nocardioopsis synnematoformans</i> MS3. Manuscript communicated to <i>J. Sci.</i> (TANSICHE).	-	-

Research articles published in Proceedings

1. **Vijayakumar, R.**, Muthukumar, C., Alaguraju, S., Kumar, T., Nadimuthu, N. and Saravanamuthu, R. 2006. Evaluation of efficiency of commercial shampoos and plant extracts in controlling the growth of *Malassezia furfur* (Robin) Baillon. **Proceedings of the National Symposium on Recent Trends in Biological Research**, pp. 51-55.
2. Thirumurugan, D. and **Vijayakumar, R.**, 2012. Screening of antibacterial compound producing marine actinobacteria from east coast of India against fish pathogenic bacterium. **ISHM'12 Research Paper Proceedings** (DBT & ICMR Sponsored), pp. 394-401.
3. Cholarajan, A. and **Vijayakumar, R.**, 2012. Studies on the diversity and antimicrobial activity of terrestrial actinobacteria from the crop fields of Thanjavur district, Tamilnadu, India. **ISHM'12 Research Paper Proceedings** (DBT & ICMR Sponsored), pp. 136-143.
4. Karthika, K., Suresh SS Raja, Bhuvaneshwari, B., Vinoth, M. and **Vijayakumar, R.** 2019. Application of Foldscope as a Modernized Tool for the Diversity of Fungi and its Tolerance against Synthetic Fertilizers. **International Seminar on "Recent Trends in Biological Science**, pp. 62-76.

Book Edited

1. **Characterization of Antibacterials from Terrestrial Actinobacteria, 2017.** Editors: **Vijayakumar, R.**, Vaijayanthi, G. and Cholarajan, A. 2017. LAP LAMBERT Academic Publishing, Germany, ISBN: 978-3-330-04198-1, pp. 69.
2. **Secondary Metabolites: Sources and Applications, 2018,** Editors: **Vijayakumar, R.** and Suresh S.S. Raja, InTech – Open Science, Croatia, ISBN: 978-1-78923-643-9; Print ISBN: 978-1-78923-642-2.

Book Chapter Published

1. **Vijayakumar, R.**, Panneerselvam, A. and Thajuddin, N. *Marine Actinobacteria - A Potential Source for Antifungal Compounds*, Chapter No. 20, pp. 231-252. In: **Marine Pharmacognosy: Trends and Applications**, [Se-Kwon Kim (Eds.)], December 06, **2012**, CRC Press, Taylor & Francis Group - 454 Pages, Pukyong National University, Busan, South Korea. ISBN-10: 1439892296; ISBN No.-13: 978-1439892299 (*Scopus indexed*).
2. Basakran, R., Mohan, P.M., **Vijayakumar, R.** and Sachithanandam, V. *Diversity of Antagonistic Streptomyces species in Mangrove Sediments of Andaman Islands, India*, Chapter No. 22, pp. 395-420, In: **Marine Faunal Diversity in India Taxonomy, Ecology and Conservation**. November, 2014, Academic Press, London, [Venkataraman, K. and Sivaperuman, C. (Eds.)], ISBN No. 978-0-12-801948-1. (*Scopus indexed*).
3. **Vijayakumar, R.**, Vaijayanthi, G., Panneerselvam, A. and Thajuddin, N. *Actinobacteria – a predominant source of antimicrobial compounds*. Chapter No. 7, pp.117-141. In: **Antimicrobials – Synthetic and Natural Compounds**, [Dhanasekaran, D. Thajuddin, N. and Panneerselvam, A (eds.)], November 24, 2016, CRC Press, Taylor & Francis Group, ISBN 9781498715621-CAT# K25354. (*Scopus indexed*).
4. Vaijayanthi, G., **Vijayakumar, R.**, and Dhanasekaran, D., *Actinobacteria: a biofactory of novel enzymes*, Chapter No. 14, pp. 229-352, In: **Actinobacteria - Basics and Biotechnological Applications**, [(Dhanasekaran, D. and Yi Jiang) (eds.)], February 2016, InTech – Open Science, Croatia, ISBN: 978-953-51-2248-7, DOI: 10.5772/61436. (*Scopus indexed*).
5. **Vijayakumar, R.** and Vaijayanthi, G. *Microbial Degradation of Textile Dye Wastes - an Eco-friendly Approach*, Chapter No. 8, pp. 175-212, In: **Microbes for Restoration of Degraded Ecosystems**, (Editors: D.J. Bagyaraj and Jamaluddin), 2017. ISBN: 978-93-85516-66-5, New India Publishing Agency, New Delhi, India.
6. Manikandan, R. and **Vijayakumar, R.** Screening of antifouling activity of marine actinobacteria isolated from Palk Strait region, Tamilnadu Coast, Chapter 3, In: **Revamping Microbial Biotechnology**, [Umamaheswari, S. (ed.)], Publication Division, Manonmaniam Sundaranar University, Tirunelveli – 627 012, Tamilnadu, 2017. ISBN: 978-93-81402-35-1, pp. 23-33.
7. Vaijayanthi, G. and **Vijayakumar, R.** Biocontrol efficiency of chitinolytic actinobacteria isolated from Muthupet mangrove forest, Chapter 1, In: **Revamping Microbial Biotechnology**, [Umamaheswari, S. (ed.)], Publication Division, Manonmaniam Sundaranar University, Tirunelveli-627 012, Tamilnadu, 2017. ISBN: 978-93-81402-35-1, pp. 3-11.
8. Manikandan, R. and **Vijayakumar, R.** *Bacteriology of Biofilm*. In: **Recent Advances in Biotechnology**, Chapter 12, [Vandana Rai (ed.)], Shree Publishers & Distributors, New Delhi, 2017. ISBN: 978–93–84863, pp. 248-272.
9. Thirumurugan, D., Cholarajan, A., Suresh S.S. Raja and **Vijayakumar, R.** *An Introductory Chapter: Secondary Metabolites*. In: **Secondary Metabolites: Types and Applications**, Chapter I, [Vijayakumar, R. and Suresh S.S. Raja (ed.)], InTech – Open Science, Croatia, 2018, ISBN: 978-1-78923-643-9; Print ISBN: 978-1-78923-642-2. (*Scopus indexed*).

Souvenir / manual / abstracts editing:

1. Editor in abstract book – “National Conference on **Developments in Deterrent Drug Formulation against Microbial Infections**” (mt-09), during 24th-25th February, 2009.
2. Editor in Training Manual – **In-Service Training Programme for Secondary Grade Science Teachers**, during November 21st – 25th, 2011, sponsored by TNSCST, Govt. of Tamilnadu.
3. Editor in Souvenir – One Day Seminar on **Development of Women Entrepreneurship** during February 14th, 2012, sponsored by TNSCST, Govt. of Tamilnadu.
4. Editor in Souvenir – Awareness and Skill Development Programme on **Application of Science and Technology in Rural Area (ASTRA)** between July 27th and 31st, 2015, sponsored by TNSCST, Govt. of Tamilnadu.

Research Projects Sanctioned

S. No.	Project Title	Funding Agency	Period/ status	Amount (Rs.)
1.	Production and characterization of novel antifouling compounds using marine actinobacteria isolated from Palk Strait coastal regions of Tamilnadu.	TNSCST, Govt. of Tamilnadu (TNSCST/S&T Projects/VR/ES/ 2013-2014/2468 dt.16.04.2014)	2014-2016 (2 years) Completed	4,58,000.00
2.	<i>In vitro studies on the effect of various chemical fertilizers on plant growth promoting activities of soil fungi.</i>	DBT, Govt. of India, 2017 BT/IN/Indo-US/ Foldscope/ 39/2015 dated 20.03.2018	One and half year (May 2018-Sep. 2019) Completed	8,00,000/-
3.	Evaluation of <i>Fusarium</i> basal rot disease in onion crop and its eco-friendly biological control with marine actinobacteria	838/2018 A/02.03.2019/ TANSCH, Govt. of Tamilnadu	One year (Jan.- Dec. 2019) Completed	1,00,000/-

Grant received from funding agencies for seminars/symposia/workshop/conferences/training programme

S. No.	Proposal Title	Funding Agency	Period	Date of programme	Amount (Rs.)
1.	<i>In-service Training Programme for Secondary Grade Science</i>	Tamilnadu State Council for Science and Technology	Five days	21-25 th Nov. 2011	95, 000.00

	Teachers				
2.	"Development of Women Entrepreneurship"	Tamilnadu State Council for Science and Technology	One day	14.02.2012	15,000.00
3.	Training Workshop on "Sanitary Napkin Preparation"	Bharathidasan University, Tiruchirappalli	Two Day	21 & 22 Dec., 2017	17,000.00

Research Supervisions

Ph.D. Scholars Guidance

S. No.	Name of the Scholars & Ref. No.	Thesis Title	Status
1.	Mr. A. Cholarajan 14205/ Ph.D.1/ Microbiology/ P.T./ October 2010	Diversity, characterization and antimicrobial compounds from actinobacteria in terrestrial soil of Thanjavur District, Tamilnadu, India.	Awarded on 15.11.2014
2.	Mr. D. Thirumurugan 14691/ Ph.D.1/ Microbiology/ P.T./ October 2010	Characterization of marine actinobacteria from east coast of India, production optimization and applications of their antibacterial compounds against fish pathogenic bacteria.	Awarded on 20.05.2015
3.	Ms. G. Vajayanthi 32436/Ph.D.K1/ Microbiology/F.T./October 2013	<i>Isolation and characterization of chitinase producing actinobacteria from Muthupet mangrove soil, south India</i>	Awarded on 28.12.2017
4.	Mr. R. Manikandan 46905/ Ph.D.K1/ Microbiology/ F.T./ January 2015/ 26.01.2015	Screening, production and characterization of novel antifouling compounds using marine actinobacteria isolated from coastal regions of Tamilnadu	Awarded on 26.07.2019
5.	Mr. O. V. Ravikumar 31012/ Ph.D.K1/ Microbiology/ P.T./ October 2014/ 17.10.2014	Distribution and characterization of marine <i>Vibrio</i> species in Chennai coast region, India	Awarded on 24.10.2019
6.	Mrs. A. Porselvi 07189/Ph.D.K1/Microbiology/Part Time/April 2015	Studies on the substrate quality on the growth and yield of mushroom	II DC completed

Research Fellow/JRF completion under project

1. **Mr. R. Manikandan** completed **Research Fellow** in a **TNSCST Project** duration two years (2014-16).
2. **Ms. K. Karthika** joined as a **JRF** in a **DBT-Foldscope Project** duration one year (2018-19)

M.Phil. (Guided)

- 1) **K. Nirmala**, Impact of transgenic cotton on occurrence and diversity of pink pigmented facultative methylotrophs, Bharathidasan University, Tiruchirappalli - 620 024, 2007.
- 2) **V. Sakthi**, Isolation and identification of larvicidal compound producing actinomycetes, Periyar University, Salem - 636 011, Aug. 2007.
- 3) **R. Remya**, Studies on the diversity, characterization and antimicrobial properties of actinomycetes isolated from West Coast of India, Kerala, Bharathiar University, Coimbatore - 641 046, 2008 (Full Time).
- 4) **S. Kannan**, RAPD typing of *Pseudomonas aeruginosa* isolated from ventilated patients with bacteremia - Vinayaka Mission University, Salem - 636 308, 2008.
- 5) **M. Sundaramoorthy**, Medical Microbiology, Periyar University, Salem - 636 011.
- 6) **S. Anitha**, Extra cellular enzyme production Marine actinomycetes from Goa, India, Bharathiar University, Coimbatore - 641 046, 2009 (Full Time).

M.Sc. (Guided)

- 1) **M. Sathiya**, Screening of extra cellular enzymes from endophytic fungi and their growth characteristics, 2005.
- 2) **S. Premalalatha**, A comparative on cultivation and nutritional status of oyster mushroom (*Pleurotus ostreatus*) on different substrates, 2005.
- 3) **K. Suvitha**, Antibacterial and antifungal effect of garlic extract, 2005.
- 4) **S. Abirami**, Screening for antibacterial activity from a marine actinomycetes, 2005.
- 5) **M. Saravanan**, Antimicrobial activity of *Aegle marmelos* on pathogenic bacteria, 2005
- 6) **S. Anitha**, Isolation and characterization of antagonistic actinomycetes from soils of Coimbatore, 2007.
- 7) **V. Seethalakshmi**, Isolation, characterization and antifungal activity of antagonistic actinomycetes from cultivated field soils of Coimbatore, 2007.
- 8) **R. Malathi**, Isolation and characterization of actinomycetes from dye polluted soil of Tirupur, 2008.
- 9) **E.S. Pooja**, Extracellular enzyme activity of actinomycetes isolated from polluted soils of Tirupur, 2008.
- 10) **G. Gopika**, *In vitro* biocontrol efficacy of marine actinomycetes from West Coast of India, 2009.
- 11) **K. Santhiya**, Actinomycetes – an emerging candidate for decolourization of textile dye effluent, 2009.

B.Sc. (Group project) (Guided)

1. Virali. M. Shah, Vennila, S., Vignesh, S. and K. Vikas, Antagonistic activity of actinomycetes isolated from Marudhamalai Hills, Western Ghats, April 2007.
2. Dhanya, P. Dharsan, B.C., Fabina Baheer, Geetha, M. and Hima Nair – isolation. Identification and antimicrobial activities properties of actinomycetes from the coastal regions of Kerala, 2008.
3. Indu, C., Joysina Stephan, Karthick, M., Krishnaswamy, E. and N. Lingeswaran – Isolation and identification of fungi from spoiled fruits and vegetables, 2008.
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5. Aarthi, N., Lakshmi Chander, Sathya Praba, J. and Sukanya, S. - Isolation and identification of fungi from spoiled fruits and vegetables, 2009.
6. Arumugam, P., Arungopal, M., Ramesh Kumar, V., Vignesh, T., Yunus, C. and Siril Sulaiman, Diversity of bacteria and fungi in polluted soils of Coimbatore, 2009.

Acting as a Doctoral Committee Member

S. No.	Name of the Candidate	Name of the University	Reference No.
1	Ms. S. Latha	Bharathidasan	29101/Ph.D.1/MB/F.T./Jan. 2011/19.01.2011
2	Ms. K. Nithya	Bharathidasan	38087/Ph.D.1/MB/P.T./July.2011/20.07.2011
3	Ms. R. Sathya	PRIST, Thanjavur	PRIST/CRD/DC/Microbiology/2012/11.12.2012
4	Mr. Jameson T. Joseph	Bharathiar	1536/JANDC/B1,B2,B5/2014 dated 14.02.2014
5	Mr. G. Nambirajan	Bharathidasan	6480/Ph.D.K1/MB/F.T./April 2014/25.04.2014
6	Mr. Suman Laskar	Bharathidasan	45842/Ph.D.K1/MB/PT/Jan. 2016/22.01.2016
7	Ms. Gangaiyammal	Bharathidasan	46341/Ph.D.K1/MB/FT/Jan. 2016/11.04.2016
8	Mr. R. Mathankumar	Bharathidasan	29683/Ph.D.K1/MB/FT/Oct. 2016/30.01.2017
9.	Mr. R. Grish Nair	Bharathidasan	29682/Ph.D.K1/MB/FT/Oct. 2016/30.01.2017
10.	Mr. R. Venkatesan	Bharathidasan	40752/Ph.D.K1/MB?FT/Jan.2017/07.04.2017

Ph.D., thesis evaluated : 1

M. Phil. Dissertations evaluated and viva conducted : 38

Research articles reviewed : 22

Other responsibilities

1. Acted as Presiding Officer in General Assembly Election of Tamilnadu (May 2016).
2. Co-coordinator, NAAC
3. Treasurer, PTA
4. Co-ordinator for CoVID'19 Grievance Cell
5. Co-ordinator, District Facilitation Centre (DFC) - Tamilnadu Government Arts & Science Colleges Admissions – 2020.

Field of Interest

Medical Microbiology, Environmental Microbiology, Industrial Microbiology, Food and Dairy Microbiology, Microbial Diversity, Microbial Biotechnology, Mycology, Bioprocess Technology, Marine Microbiology and Actinobacteriology.