

Dr. Jerrine Joseph M.Sc., Ph.D.,

Scientist D & Centre Incharge
 Centre for Drug Discovery and Development
 Sathyabama Institute of Science and Technology
 Rajiv Gandhi Road, Chennai – 600 119. Tamil Nadu. India
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**RESEARCH INTEREST:**

- Diversity and bioprospecting of actinobacteria from Indian rare ecosystems for biomedical, agriculture and aquaculture applications
- Anti TB and anticancer drug discovery from actinobacteria & medicinal plants
- *In silico* drug target identification and target driven drug discovery
- Medicinal plants for Health care & biomedical applications

PROFESSIONAL QUALIFICATIONS:

[Teaching experience – 2 ; Industry – 2 years; Research experience – 15 years]

Period	Designation and employer
1-06-2014 – Till Date	Scientist D & Centre in Charge Centre for Drug Discovery and Development, Sathyabama Institute of Science and Technology (Deemed to be University), Chennai – 600 119.
07-06-2013 – 31-05-2014	Research Associate Centre for Drug Discovery and Development, Sathyabama University, Chennai – 600 119.
2011-2013	ICMR- Post Doctoral Fellow (PDF)UK (Birkbeck University London and Aberdeen University, Scotland) Department of Bacteriology National Institute for Research in Tuberculosis [ICMR], Chennai
2003-2005	Scientist Jubilant Biosys Ltd, Bangalore
2002-2003	Lecturer St. Ann's College, Visakhapatnam, A.P

ACADEMIC QUALIFICATION:

Degree	Branch	School/ Institution/University	Year of Passing	% of Marks
Ph.D.,	Zoology – Cancer Biology	Loyola College (University of Madras) Chennai	2011	Highly Commended
M.Sc.,	Life Sciences	Pondicherry Central University	2002	Rank Holder
B.Sc.,	Biochemistry	Andhra University, Visakhapatnam	2000	1 st Rank

RESEARCH EXPERIENCE - SUMMARY**Scientist @ Sathyabama University**

Established the Ethnomedicine lab with identification of potential anti TB phytochemicals published 40 papers as well as computer aided drug discovery involving in target identification. Characterization of

potential anti TB compounds from Actinobacteria and their druggability studies *in vitro*. Involved in screening of molecules against MTB especially molecules isolated from from marine ecosystems using rapid luciferase reporter phage assay. Part of the work carried out in Birkbeck University London and Aberdeen University, Scotland. Based on the success story in identification of novel molecule *Streptomyces sp.* ANS2 isolated from Andaman and Nicobar showed promising activity against drug sensitive, MDR and XDR *M. tuberculosis* isolates.

Ph.D.: The work was a detailed study of the HPV 16 and HPV 18 prevalence E6 , E7 expression and role in cancer pathway studies, karyotyping , immunohistochemistry and bioinformatics culminating in the development of a database on cervical cancer and a genetic algorithm for cervical cancer developed and published

Establishment of national database on TB along with seven institutes under ICMR headship involved in developing a mycobacteriophage database with genome, proteomic and clinical data -Published

RESEARCH PROJECTS – ON GOING

Project title	Funding agency	Amount [Rs in lakhs]	Project period	Status
Principal Investigator				
Characterization, structure elucidation and druggability studies of three potential anti TB metabolites from novel <i>Streptomyces sp</i> ANS2 isolated from Andaman and Nicobar marine sediments"	DBT	32.58	9 th Sep 2016; 3 years	Completed
Distribution of culturable marine Micromonospora in the Indian mangrove ecosystems and its exploration for potential anticancer metabolites	MoES	14.5	2019-2021	Ongoing
Bacterial disease management by microbial eco-friendly Approach For Forestry: With Special Reference To Bamboo	Tamil Nadu State Forest Department & Biozone Pvt Ltd	6.9	2019-2021	Ongoing

CONSULTANCY WORKS

Project title & Funding agencies	Amount [Rs in lakhs]	Project period
Cytokine studies for Chettinad University R&D collaboration	1.20	2018
Saint Gobain Consultancy project on antifungal sealant testing	2.3	2017
<i>Invitro</i> and <i>Invivo</i> studies on poly Herbal formulation	0.5	2016-2017

LIST OF PUBLICATIONS (Total Numbers = 56)

Number of Journal articles	:	45
Number of Book chapters	:	5
Number of magazine and newsletter articles	:	1
Number of Books edited	:	1
Number of Conference articles	:	4

PATENTS FILED-THREE

RESEARCH ARTICLES:

1. Vignesh. A, Manigundan. K, Santhosh kumar. J, Shanmugasundaram, T, Gopikrishnan. V, Radhakrishnan. M*, Jerrine Joseph, Ayyasamy. P.M, Govindaraj Dev Kumar, and Balagurunathan, R. April 2020. Microbial degradation, spectral analysis and toxicological assessment of malachite green dye by newly isolated actinobacterium, *Streptomyces chrestomyceticus* (S20). *Bioprocess and Biosystems Engineering*. [IF 2.3]
2. Gurugnana Soundarya, Manigundan Kaari, Meganathan P. Ramakodi, Balaji Subramanyam and Radhakrishnan Manikkam. Jan 2020. Antimicrobial and anti-tubercular potential of *Streptomyces* species isolated from a Northern State of India, Himachal Pradesh. *J Environmental Biology*. 41(1); 131-138. [Web of Science]
3. Radhakrishnan Manikkam*, Madangchanok Imchen, Manigundan Kaari, Vignesh Angamuthu, Venugopal Gopikrishnan, Thangavel Shanmugasundaram, Jerrine Joseph, Ramasamy Balaguruanthan and Ranjith Kumavath. Feb 2020. Metagenomic Insights Unveil the Dominance of Undescribed Actinobacteria in Pond Ecosystem of an Indian Shrine. *Metagene*. 23; 100639. (Scopus)
4. Sangeetha, M., B. Surya, A. Sivarajan, M. Radhakrishnan, J. Jerrine and R. Balagurunathan. Nov 2019. Bioelectricity generation from industrial effluent through actinobacterial fuel cells. *Pollution Research* S77-S83. [Scopus]
5. Dhanalashmi R., K. Menaka, Annam Rennita, V. Gopikrishnan, T. Shanmugasundaram, Jerrine Joseph and M. Radhakrishnan*. 2019. Bioleaching of heavy metals from printed circuit board (PCB) by novel *Streptomyces sampsonii* TN10 isolated from insect nest. *Bioresources and Bioprocessing*. 6; 47. [Web of Science]
6. Manigundan. K, Revathy Sundar, Sivarajan, S. Anbarasu, Jerrine Joseph, M. Radhakrishnan and R. Balagurunathan. Aug 2019. Bioactive potential of selected actinobacterial strains from Andaman marine ecosystems effective against *Mycobacterium tuberculosis* and other clinical pathogens. *Indian Journal of Geo Marine Sciences*. 48(8); 1307-1311. [IF. 0.35] [Web of Science]
7. Sheela Rani B., Jerrine Joseph, Radhakrishnan Manikkam and Manigundan Kaari. Jan 2019. Applications and Opportunities of Nanorobotics in Biopharmaceutical and Biomedical Sciences *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 10(1);1114-1120.
8. Rajasekar T., Mary Shamy A., Jerrine Joseph. 2019. Screening of phytochemical, antioxidant activity and anti-bacterial activity of marine seaweeds. *International Journal of Pharma and Bioscience*.11(1); 61-66.
9. Y. Swarnalatha, and Jerrine Joseph, Tippabathani Jayakrishnaa. 2017. Rosmarinic acid plays a protective role in the embryogenesis of Zebra fish exposed to food colours through its influence on aurora kinase A level. *Biomedicine & Pharmacotherapy*. 89; 1166–1171
10. Josephine, B, Avila, Teresita. V., Mary., Anantha Raman, Ashwini, Sekar. T, Raja and Joseph Jerrine. 2017. Synthesis and characterisation of CU (II) schiff base complex derived from Amoxicillin trihydrate and vanillin for antimicrobial application. *International Journal of Pharma and Bio Sciences*. 8(4); 224-231.
11. Jerrine J*, Tahseen, A, Rajasekar, T, Radhakrishnan, M, Manigundan, K, Swarnalatha Y, and Anbarasu, S. 2017. Antioxidant and anticancer potential of *Nigella sativa* seeds. *Der Pharma Chemica*. 9(22); 106-111.
12. Sugappriya, Mohanasundaram, Sudarsanam, D., Bhaskaran, Raj, Joseph, Jerrine and Suresh Arumugam. 2017. Druggability and binding site interaction studies of potential metabolites isolated from marine sponge *Aurora globostellata* against Human Epidermal Growth Factor Receptor-2. *Bioinformation*. 13; 261-268

13. Jerrine Joseph, Raj Bhaskaran, Muthusamy Kaliraj, Muthiyah Muthuswamy, and Arumugam Suresh. 2016. Molecular docking of phytoligands to the viral protein receptor *P. monodon* Rab7 *Bioinformation*. 13(4); 116-121.
14. Muthusamy K, Arumugam S, Raj B, Muthiyah M and Jerrine J: Screening of Phyto- molecules against *Brugia malayi* asparaginyl tRNA synthetase - An *in-silico* approach towards anti filarial leads. *Der Pharma Chemica* 2016; 8(19): 363-370.
15. Radhakrishnan Manikkam, Sekar Ponnuswamy, Jerrine Joseph and Vanaja Kumar. 2016. Antitubercular activity of the pigment from forest soil *Streptomyces* sp SFA5. *Bangladesh Journal Pharmacology* 11; 138-140.
16. Manikkam Radhakrishnan, Ganesan Vijayalakshmi, Venugopal Gopikrishnan and Joseph Jerrine. 2016. Bioactive potential of actinobacteria isolated from certain understudied regions in India *Journal of Applied Pharmaceutical Science*. 6 (08); 151-155.
17. Radhakrishnan Manikkam and Jerrine Joseph. 2016. *In silico* docking analysis of actinobacterial sideromycins with the alanine racemase enzyme of *Acinetobacter baumannii* *International Journal for Computational Biology*. 5(2); 6-8
18. Arul Jayan, Mohanraj, Anbarasu and Jerrine Joseph. 2016. *In silico* docking studies of 11-beta hydroxysteroid dehydrogenase as a potential drug target for asthma. *International J Pharma and Bioscience* 6(1): (b) 502 – 506.
19. Helen Mary L, Florida Tilton, Jerrine Joseph, Sudarsanam D, Anitha CP, Suresh A, Rajasekar T, Ravisankar N and M. Muthuswamy. 2016. DNA barcoding for molecular characterization of a medicinal plant – *Citrullus colocynthis*. *Der Pharmacia Lettre*. 8(4); 304-309.
20. Ravisankar, N, Jerrine J, Radhakrishnan, M, and Rajasekar, T. 2016. *In vitro* cytotoxicity of methanol extracts of *Hypericum wightianum* and *Hypericum hookerianum* against 3T3L1 cell lines *Bangladesh Journal of Pharmacology*. 2016; 11: 328-29.
21. Rajasekar, T, Anbarasu, S., Radhakrishnan, M., Jerrine, J and Vanaja, K. 2016. *In vitro* antitubercular activity of *Tridax procumbens* extracts against whole cell *Mycobacterium tuberculosis* and its lysine amino transferase. *Bangladesh Journal of Pharmacology*. 11; 192-193.
22. Anbarasu, S. & Revathy, S. & Joseph, Jerrine & Vanaja, K.. (2015). A comparative study between the moist heat versus microwave method for the determination of vitamin C content in amla. *Der Pharma Chemica*. 7. 46-49.
23. Narayanan Ravisankar, Chandrasekaran Sivaraj, Sooriamuthu Seeni and Jerrine Joseph. 2015. GC MS analysis and identification of bioactive constituents from flowers of *Toddalia asiatica* (rutaceae). *International Journal of Pharma and Bioscience* 6(1); (B) 1246-1254
24. Tahseen Ali, Shyamala Katragadda and Jerrine Joseph. 2015. *In silico* docking studies of thymoquinone as potential anti tumor drug target. *International Journal of Pharma and Biosciences*. 6(1): (B) 1038 – 1045.
25. Krithiga Thangavelu, Narayanan Ravisankar, Abubakker Siddiq and Jerrine Joseph. 2015. *In vitro* antioxidant and anticancer potential of flowers of *Toddalia asiatica* (rutaceae). *International Journal of Pharma and Biosciences*. 7(3); 3, 95-99.
26. Narayanan Ravisankar and Jerrine Joseph. 2015. Comparative LC-MS profile of the three species *Hypericum hookerianum*, *Hypericum mysorensense* and *Hypericum wightianum*. *International Journal of Pharma and Biosciences*. 6(3): (b) 373 – 383.
27. Thirunavukkarasu Rajasekar, Sivaraj Anbarasu, Radhakrishnan Manikkam, Jerrine Joseph and Vanaja Kumar. 2015. Inhibitory activity of *Euphorbia hirta* (Tawa- tawa) extracts against *Mycobacterium tuberculosis* and other non mycobacterial pathogens. *Der Pharma Chemica*. 7(8); 213-216.

28. Sivaraj Anbarasu, Manikkam Radhakrishnan, Arumugam Suresh, Jerrine Joseph and Vanaja Kumar. 2014. Studies on antagonistic activity and probiotic properties of *Enterococcus faecium* and *Lactococcus lactis*. *International Journal of Pharma and Biosciences*. 5(3); (B) 682 – 690.
29. Narayanan Ravisankar, Chandrasekaran Sivaraj, Sooriamuthu Seeni, Jerrine Joseph and Nanjian Raaman. 2014. GC-MS analysis and anticancer activity of methanol extract of leaves of *Hypericum hookerianum* Wight & Arn. *International Journal of Pharma and Biosciences*. 6(5).
30. Narayanan Ravisankar, Chandrasekaran Sivaraj, Sooriamuthu Seeni, Jerrine Joseph and Nanjian Raaman. 2014. LC-MS analysis and pharmacological potential of hyperforin and hypericin from *Hypericum hookerianum* wight and arn. *International Journal of Pharma and Biosciences*. 6(5).
31. Narayanan Ravisankar, Chandrasekaran Sivaraj, Sooriamuthu Seeni, Jerrine Joseph and Nanjian Raaman. 2014. Antioxidant activities and phytochemical analysis of methanol extract of leaves of *Hypericum hookerianum*. *International Journal of Pharma and Biosciences*. 6(6).
32. Arumugam Suresh, Prasanna Balaji, Manikkam Radhakrishnan, Gopal Suresh, Sivaraj Anbarasu, Jerrine Joseph. 2014. Isolation of colicinogenic *E. coli*, optimization of colicin production and transformation of Col plasmid. *Journal of Applied Pharmaceutical Science*. 4(07); 2231-3354.
33. Helen Mary, Lakshmi, Florida Tilton, Jerrine Joseph, S.Siddhartha Solosan and D. Sudarsanam. 2014. Phytochemical screening and antioxidant properties of *Cucurbita digitata*. *International Journal of Pharmacy and Pharmaceutical Science*. 6(4); 353-356.
34. Helen Mary, Jerrine Joseph and D. Sudarsanam. 2014. Antiproliferative activity of ethanol fruit extract from *Cucurbita digitata*. *International Journal of Pharma and Biosciences*. 6(4).
35. Jerrine Joseph, Helen Mary and D. Sudarsanam. 2014. Insilicomodelling of the integrative pathway of carcinoma by HPV E6 protein–protein interaction. *International Journal of Pharma and Bioscience*. 5(1): (B) 1107 – 111
36. Jerrine Joseph, Nester Jeyakumar M. Antonysamy A. Paulraj Joseph Jerrine and D. Sudarsanam. 2012. Improved classifier performance through genetic algorithm for cervical cancer prediction. *Journal of Research in Bioinformatics*. 1; 023-030
37. Jerrine Joseph, Sameer Hassan, Vasanthi Rajendran and Vanaja Kumar. 2011. Functional assignment of the 64 mycobacteriophages into gene families. *Asian Pacific Journal of Tropical Biomedicine*. 1-3
38. Jerrine Joseph, Renjuraj and Sudarsanam Dorairaj. 2011. An Interactive tool for cervical cancer. *International Journal of Current Research*, 3(11); 297-298.
39. Jerrine Joseph, Vasanthi Rajendran, Sameer Hassan and Vanaja Kumar. 2011. Mycobacteriophage Genome Database. *Bioinformation*. 6 (10).
40. Jerrine Joseph, Renjuraj and Sudarsanam Dorairaj. 2011. An Interactive tool for cervical cancer. *International Journal of Current Research* 3(11); 297-298.
41. Ruby Veronica N, Karthik S, Jerrine Joseph*, Rajasekar T, RadhakrishnanM, AzgerDusthacker V.N, Mary Shamy A, Luke Elizabeth Hanna, Wilson Aruni. 2020. *In vitro* anti-tubercular and anti-HIV activity of silver nano particles synthesized using *Piper nigrum*. *BMC Infectious Diseases*. (IF. 2.9).
42. Jerrine Joseph, Deva Darshini, Arumugam Suresh, Manikkam Radhakrishnan, Thirunvaukarasu Rajasekar, Shakila Suresh. 2020. Antiseptic efficacy of combination of essential oils against multidrug resistant pathogens. *BMC Infectious Diseases*. (IF. 2.9).
43. Manigundan, K., Joseph, J., Ayswarya, S., Vignesh, A., Vijayalakshmi, G., Soyong, K., Gopikrishnan, V. and Radhakrishnan, M. September 2020. Identification of biostimulant and microbicide compounds from *Streptomyces* sp. UC1A-3 for plant growth promotion and disease control. *International Journal of Agricultural Technology*. 16(5):
44. Ayswarya, S., G. Vijayalashmi, A. Vignesh, K. Manigundan, V. Gopikrishnan, S. Anbarasu, Jerrine Joseph, and M. Radhakrishnan*. September 2020. Antimicrobial and antitubercular

- activity of endophytic actinobacterium, *Streptomyces* sp. SACC 4 isolated from the mangrove plant *Rhizophora apiculata*. *Bioscience Biotechnology Research Communications*. 13 (3); July-Aug-Sep 2020: 1050-1054
45. Anbarasu Sivaraj, Revathy Sundar, Krupakar Parthasarathy, Jerrine Joseph, Vanaja Kumar and Radhakrishnan Manikkam. September 2020. Luciferase Reporter Phage (LRP) assay for anti TB screening: Current status and challenges. *Biosci Biotech Res Commun.*, 13 (3); July-Aug-Sep 2020: 1236-1244
 46. Sukanthkumar Ezhakil, Vijayalakshmi Ganesan, Manigundan Kari, Bharathi Selvaraj, Gopikrishnan Venugopal, Jerrine Joseph, Radhakrishnan Manikkam*. Aug 2020. Anti infective potential of marine actinobacteria against carbapenem resistant *Klebsiella pneumoniae* ATCC13882. *Research J. Pharm. and Tech.* 2020; 13(8):3653-3660
 47. Jerrine Joseph , R. Devadarshini, A. Suresh, M. Radhakrishnan , T. Rajasekar, V. Gopikrishnan , S. Shakila*and Wilson Aruni. June 2020. Antiseptic efficacy of combination of essential oils against multidrug- resistant pathogens. *Biosci Biotech Res Commun.*, Vol 13 (2); 565-570

Book Edited [n=3]

1. Suresh, A., M. Radhakrishnan, Jerrine Joseph et al., A portrait of the *Mycobacterium tuberculosis* cell wall targets. LAMBERT Academic Publishing, (Germany). Pp -1-73. 2016
2. Vaishnavi Chandramouli, Anusha Ramasamy, Radhakrishnan Manikkam and Jerrine Joseph. July 2018. Taxonomy, Distribution, Phytochemistry and Biomedical activities of selected Indian medicinal plants. Lambert Academic Publishing (Germany). Pp – 1-53.[ISBN: 978-613-9-87791-1] 2018.
3. Jerrine Joseph, Manikkam Radhakrishnan, A. Mary Shamy and Wilson Aruni. Bar Coding Significance in Establishing Evolutionary Link in Plants in the book, Cucurbita: Biology, Distribution and Habitat. Bar Coding Significance in Establishing Evolutionary Link in Plants. Nova scientific publishers (US)

Manual Edited:

1. Radhakrishnan, M., R. Balagurunathan, V. Gopikrishnan, T. Shanmugasundram., Premalata Pati and Jerrine Joseph. August 2018. Fermentation Technology. – Laboratory Manual. Lambert Publishing (ISBN: 978-3- 659-67878-3). Pp . 1-53. 2018
2. R. Balagurunathan, Radhakrishnan, M., , T. Shanmugasundram., V. Gopikrishnan, and Jerrine Joseph. 12th July 2020. Protocols in Actinobacterial Research. In. Springer Protocols Handbook Series. (Springer New York, NY). pP. 245. **2020**

Book chapters:

1. Manikkam Radhakrishnan*, Kaari Manigundan, Venugopal Gopikrishnan, and Ramasamy Balagurunathan. August 2020. Screening methods for the detection of antagonistic actinobacteria: facts and problems. In: Recent Advances in Microbiology and Biotechnology. BookPI Publisher, Wesbengal, India. Book PI Publisher
2. Bharathi, S., and M. Radhakrishnan. August 2020. Nanoparticles in Environmental

Cleanup. Accepted in Recent Advances in Microbiology and Biotechnology. BookPI Publisher, West Bengal, India. Book PI Publisher

3. Venugopal Gopikrishnan*, Angamuthu Vignesh, Kaari Manigundan, Manikkam Radhakrishnan and Jerrine Joseph. April 2020. Actinobacteria in earthworm cast and gut : Distribution and bioactivities. Recent Advances in Biology. Book PI. (*Accepted*).
4. Jerrine Joseph., Manikkam Radhakrishnan, A.Mary Shamy and Wilson Aruni. 2020. Bar Coding Significance in Establishing Evolutionary Link in Plants. In: *Cucurbita: Biology, Distribution and Habitat*. Nova scientific publishers (USA).
5. Gopikrishnan, V., A. Vignesh, M. Radhakrishnan, Jerrine Joseph, T. Shanmugasundaram, Mukesh Doble and R. Balagurunathan. October 2019. Microbial leaching of heavy metals from E-waste: Opportunities and challenges. In: Biovalorization of wastes to renewable chemicals and biofuels. Elsevier. 189-221.
6. Radhakrishnan Manikkam, Premalata Pati, Shanmugasundaram Thangavel, Gopikrishnan Venugopal, Jerrine Joseph, Balagurunathan Ramasamy and Syed G Dastager. June 2019. Distribution and bio- prospecting potential of actinobacteria from Indian Mangrove Ecosystems. In: Microbial Diversity: Ecosystem Sustainability and Biotechnological Applications (Springer)
7. Vaishnavi Chandramouli, Anusha Ramasamy, Jerrine Joseph and Radhakrishnan Manikkam*. July 2018. Pharmacological Significance of *Cassia auriculata*. Book Chapter communicated to "*Recent Trends in Phytochemistry, Pharmacognosy and Pharmacobiotechnology of medicinal Plants*".
8. Radhakrishnan Manikkam, Jerrine Joseph, Anbarasu Sivaraj, Suresh Arumugam, and Balagurunathan Ramasamy. July 2017. Actinobacteria from less explored ecosystems: A promising source for anti TB metabolites. (Book Chapter). In: Current Research in Microbiology (Online), USA. 1-29. (ISBN : 978-93- 87500-01-3).

Manual Edited:

1. Radhakrishnan, M., R. Balagurunathan, V. Gopikrishnan, T. Shanmugasundaram., Premalata Pati and Jerrine Joseph. August 2018. Fermentation Technology. – Laboratory Manual. Lambert Publishing (ISBN: 978-3-659-67878-3). Pp . 1-53. 2018

Book chapters:

1. Gopikrishnan, V., A. Vignesh, M. Radhakrishnan, Jerrine Joseph, T. Shanmugasundaram, Mukesh Doble and R. Balagurunathan. October 2019. Microbial leaching of heavy metals from E-waste: Opportunities and challenges. In: Biovalorization of wastes to renewable chemicals and biofuels. Elsevier. 189-221.
2. Radhakrishnan Manikkam, Premalata Pati, Shanmugasundaram Thangavel, Gopikrishnan Venugopal, Jerrine Joseph, Balagurunathan Ramasamy and Syed G Dastager. June 2019. Distribution and bio- prospecting potential of actinobacteria from Indian Mangrove Ecosystems. In: Microbial Diversity: Ecosystem Sustainability and Biotechnological Applications (Springer)
3. Vaishnavi Chandramouli, Anusha Ramasamy, Jerrine Joseph and Radhakrishnan Manikkam*. July 2018. Pharmacological Significance of *Cassia auriculata*. Book Chapter communicated to "*Recent Trends in Phytochemistry, Pharmacognosy and Pharmacobiotechnology of medicinal Plants*".
4. Radhakrishnan Manikkam, Jerrine Joseph, Anbarasu Sivaraj, Suresh Arumugam, and Balagurunathan Ramasamy. July 2017. Actinobacteria from less explored ecosystems: A promising source for anti TB metabolites. (Book Chapter). In: Current Research in Microbiology (Online), USA. 1-29. (ISBN : 978-93- 87500-01-3)

MICROBIAL 16s rRNA SEQUENCES PUBLISHED IN GenBank : 20

GUEST/INVITED/AWARD LECTURES: [n=]5

PhD GUIDING : 1

M.Sc., B.Tech. 10; 8

HONORS / RECOGNITIONS:

- Qualified National Eligibility Test (**UGC-NET**) for Lectureship in December 2001
- Qualified in **GATE 2002** with Percentile 98.4
- Recipient of Rolling Shield for securing college 1st Rank in B.Sc (Undergraduation) Andhra University
- Proficiency award in Biochemistry and Chemistry for three consequent years in B. Sc
- Best Outgoing student in St. Ann's College (Andhra University), Visakhapatnam (2000)
- **Senior Research Fellowship 2009-2011** from **Indian Council of Medical Research - (ICMR)**, New Delhi, Govt. of India
- **Post Doctoral Fellowship (PDF) (2011- 2013)** from **Indian Council of Medical Research**, New Delhi.

MEMBERSHIP:

Life Member: Indian Association of Applied Microbiologists