

## Dr.R.JASMINE

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Department of Biotechnology,  
Bishop Heber College,  
Tiruchirappalli - 17.

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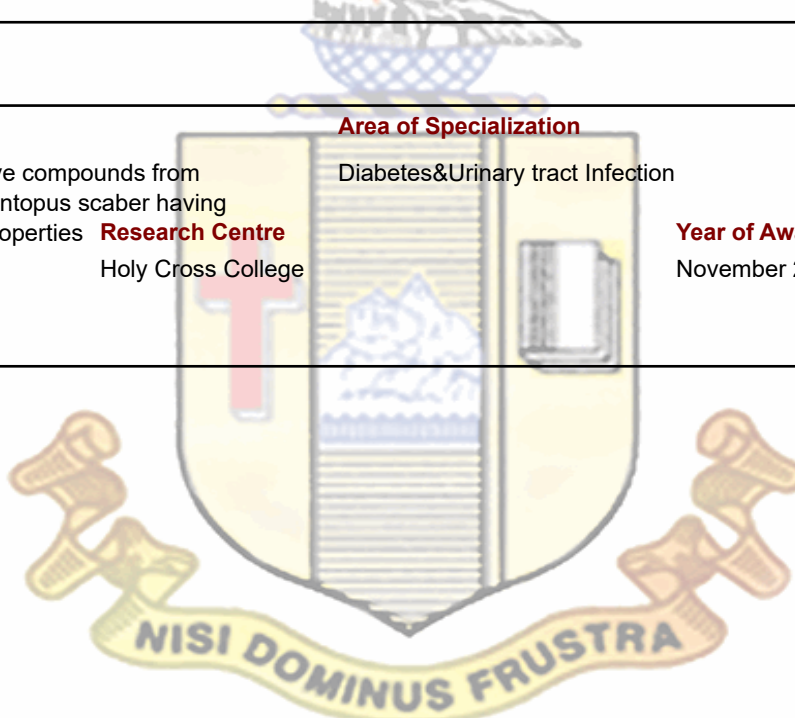
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### Qualification

Degree	Branch	Institution / University	Year of Passing
PhD	Biotechnology	Holy Cross College, Trichy	2008
M.Sc	Applied Microbiology	Psg College Of Arts & Science, Coimbatore	1994
BSc	Zoology	Holy Cross College, Trichy	1992

### Ph.D. Details

Title of Thesis	Area of Specialization	Research Centre	Year of Award
Isolation & Identification of active compounds from Eugenia jambolana and Elephantopus scaber having antidiabetic and antibacterial properties Research Supervisor Dr.Daisy	Diabetes&Urinary tract Infection	Holy Cross College	November 2008



## Additional Qualification

Name of Course	Place of Study	Date	Duration
Whole genome sequencing of bacterial genomes - tools and applications	Online-Coursera	June 2021	5 weeks
Metagenomics applied to surveillance of pathogens and antimicrobial resistance	Technical University of Denmark (DTU) by Coursera -Online	January 2021	4 weeks
Gut check: Exploring your microbiome from University of Colorado Boulder	Coursera	June 2022	4weeks
Learn Bioinformatics in 6 Days	Udemy	August 2022	6 days
Review of Pathogen Genomics - Part 1	Online Course offered by The American Society for Microbiology (ASM) an approved provider of continuing education programs in the clinical laboratory sciences by the ASCLS	July,2023	3 days
Connecting the Genome to Molecular Diagnostics			
Sequence Comparison and Phylogeny	Online Course offered by The American Society for Microbiology (ASM) an approved provider of continuing education programs in the clinical laboratory sciences by the ASCLS	July,2023	3 days
NGS Library Creation Approaches, Methods and Design	Online Course offered by The American Society for Microbiology (ASM) an approved provider of continuing education programs in the clinical laboratory sciences by the ASCLS	July,2023	3 days
DNA decoded by McMaster University	Online-Coursera	28th Jan, 2021	4 weeks
Basics of CRISPR/Cas9	The Jackson Laboratory	Feb 2nd, 2021	1 week
Healing your microbiome: Probiotics and microbes	Udemy	May 2021	3 days

## Work Experience

Name of Institution	Address of Institution	Designation	From	To
Prof Dhanapalan College	Chennai	Lecturer	1994	1995
Ethiraj College for Women	Chennai	Lecturer	2000	2001
Sylvester Cancer Institute, University of Miami	USA	Trainee	2002	2003
Holy Cross College	Trichy	Lecturer	2004	2007
Bishop Heber College	Trichy	Associate Professor	2009	Till date
Cauvery College for Women	Trichy	HOD	1995	1998
Sri Akilandeswari College	Vandavasi	Lecturer	1998	1999

### Teaching / Research Experience

**U.G. :** 18      **P.G. :** 17      **M.Phil.**      **Ph.D.**      8

### Research Guidance

**U.G. :**      **P.G. :** 15      **M.Phil. :**      **Ph.D. :** 15

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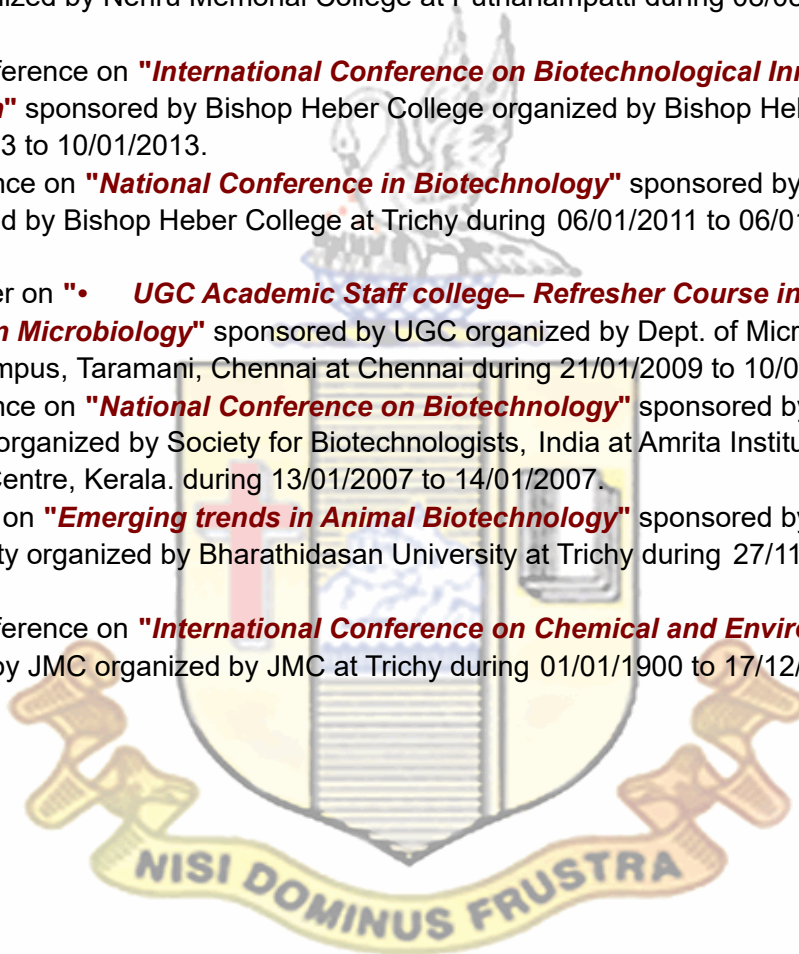
1.	<b>Conferences / workshops / Seminars Attended</b>	<b>45</b>
2.	<b>Research Papers Presented</b>	<b>29</b>
3.	<b>Publication in Journals</b>	<b>80</b>
4.	<b>Publication in Books</b>	<b>9</b>
5.	<b>Books Published / Edited</b>	<b>4</b>
6.	<b>Conferences / Workshops / Seminars Organised</b>	<b>9</b>
7.	<b>Research Projects</b>	<b>0</b>
8.	<b>Resource Person</b>	<b>7</b>
9.	<b>Consultancy</b>	<b>0</b>
10.	<b>Awards Recieved</b>	<b>1</b>
11.	<b>Patent</b>	<b>2</b>
12.	<b>Extension Activities Undertaken</b>	<b>0</b>
13.	<b>Professional Membership</b>	<b>2</b>
14.	<b>M.Phil. / Ph.D. Produced</b>	<b>0 / 4</b>

1. International level Conference on **"International Conference, CT-CEB 21"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 18/03/2021 to 19/03/2021.
2. International level Conference on **"International Conference on Stem Cells in Regenerative Medicine"** sponsored by Holy Cross College organized by Holy Cross College at Trichy during 06/03/2020 to 06/03/2020.
3. International level Conference on **"International Conference on Prospects of Biosciences in Transdisciplinary Research"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 20/01/2020 to 21/01/2020.
4. International level Conference on **"International Conference on Recent Trends in Bioplastics"** sponsored by Microbiology Department, Alagappa University, Karaikudi organized by Microbiology Department, Alagappa University, Karaikudi at Karaikudi. during 09/12/2019 to 10/12/2019.
5. National level Orientation on **"Faculty Development Program on Current Developments in Life Sciences: An Interdisciplinary Approach"** sponsored by TEQIP organized by Anna University, Bharathidasan Institute of Technology at Trichy during 19/08/2019 to 25/08/2019.
6. -1 level Conference on **"Unravelling Biometabolites with Bioactivity"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 25/02/2019 to 25/02/2019.
7. International level Conference on **"International Conference on Career Opportunities for life science professionals"** sponsored by Theivanai Ammal College for Women organized by Theivanai Ammal College for Women at Villupuram during 31/01/2019 to 01/01/1900.
8. International level Conference on **"International Conference on Chemical Research and Innovations Today"** sponsored by Bishop Heber College, Tiruchirappalli, India organized by Bishop Heber College, Tiruchirappalli, India at Tiruchirappalli during 24/01/2019 to 01/01/1900.
9. International level Conference on **"International Conference on New Vistas in Life Sciences"** sponsored by Holy Cross College organized by Holy Cross College at Tiruchirappalli during 11/09/2018 to 01/01/1900.
10. International level Conference on **"International Conference on New Navigation System for Prostate Cancer Therapy"** sponsored by KSR College of Arts and Science, Coimbatore organized by KSR College of Arts and Science, Coimbatore at Coimbatore during 08/08/2018 to 01/01/1900.
11. College level Workshop on **"Molecular and Immunological Techniques"** sponsored by Bishop Heber College, Tiruchirappalli, India organized by Bishop Heber College, Tiruchirappalli, India at Trichy during 19/02/2018 to 20/02/2018.
12. International level Conference on **"International Colloquia on Bionanotechnology"** sponsored by St Josephs College, Trichy organized by St Josephs College, Trichy at Trichy during 08/02/2018 to 08/02/2018.
13. National level Seminar on **"Impacts of Pollution on Health and restoration of quality environment through Biotechnology Applications"** sponsored by The American College organized by The American College at Madurai during 02/02/2018 to 03/02/2018.
14. National level Conference on **"Impacts of Pollution on Health and restoration of quality environment through Biotechnology Applications"** sponsored by The American College organized by The American College at Madurai during 02/02/2018 to 01/01/1900.
15. -1 level Seminar on **"National Seminar on Contemporary Advances in Biotechnology"** sponsored by Mahendra Arts & Science College organized by Mahendra Arts & Science College at Thiruchengode during 25/01/2018 to 25/01/2018.
16. National level Seminar on **"Contemporary Advances in Biotechnology"** sponsored by Mahendra Arts & Science College, organized by Mahendra Arts & Science College, at Thiruchengode. during 25/01/2018 to 25/01/2018.
17. National level Seminar on **"Current Perspectives in Biological Sciences"** sponsored by Rabiammal Ahamed Maideen College for Women organized by Rabiammal Ahamed Maideen College for Women at Thiruvarur during 24/01/2018 to 24/01/2018.



18. International level Conference on **"International Conference on Frontiers in Nano Biotechnology"** sponsored by DST organized by Bishop Heber College, Tiruchirappalli, India at Trichy during 08/09/2017 to 09/09/2017.
19. Regional level Workshop on **"Academies' Lecture Workshop on New Vistas in Biodiversity and Bioresources"** sponsored by St Josephs College, Trichy organized by St Josephs College, Trichy at Trichy during 01/08/2017 to 01/01/1900.
20. National level Conference on **"Recent Advancements in Plant Science"** sponsored by Department of Plant Science, BARD organized by Department of Plant Science, BARD at Trichy during 09/03/2017 to 10/03/2017.
21. National level Conference on **"Computational analysis of Molecular data in synergy with biological applications"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 03/02/2017 to 03/02/2017.
22. International level Conference on **"International Conference on cancer biology"** sponsored by organized by at Saiva Bhanu Kshatriya College, Arupukottai during 29/09/2016 to 01/01/1900.
23. -1 level Conference on **"International Seminar on Bioscience and its Applications"** sponsored by organized by at during 30/08/2016 to 30/08/2016.
24. National level Conference on **"Frontiers of Bioscience"** sponsored by JMC organized by JMC at Trichy during 05/03/2016 to 01/01/1900.
25. International level Conference on **"International Seminar on New Frontiers and Challenges in Environmental Sciences"** sponsored by School of Biosciences, Maruthupandiyar College organized by School of Biosciences, Maruthupandiyar College at Thanjavur during 11/02/2016 to 12/02/2016.
26. International level Conference on **"International Conference on Biodiversity and Bioactive Natural Products for Human Welfare"** sponsored by Government Arts College organized by Government Arts College at Karur during 10/02/2016 to 12/02/2016.
27. National level Workshop on **"Molecular and Immunological Techniques"** sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 06/02/2016 to 07/02/2016.
28. National level Conference on **"New Avenues in Life Science and Challenges"** sponsored by Dhanalakshmi Srinivasan College organized by Dhanalakshmi Srinivasan College at Peramballur during 28/01/2016 to 29/01/2016.
29. International level Conference on **"International Conference on Frontiers in Life Science"** sponsored by SJC organized by SJC at Trichy during 07/01/2016 to 08/01/2016.
30. National level Conference on **"Herbal Focus 2015"** sponsored by Srimad Andavar College organized by Srimad Andavar College at Trichy during 30/09/2015 to 01/01/1900.
31. -1 level Workshop on **"Next Generation Sequencing"** sponsored by SJC organized by SJC at Trichy during 09/09/2015 to 01/01/1900.
32. International level Conference on **"International Conference on Recent Advances in Synthetic Biology"** sponsored by UGC organized by Biotechnology at BHC, Trichy during 01/08/2015 to 01/09/2015.
33. International level Conference on **"Recent Advances in Synthetic Biology"** sponsored by UGC organized by Biotechnology at BHC, Trichy during 01/08/2015 to 01/09/2015.
34. International level Conference on **"The International Conference on Converging Biotechnological Innovations for Health, Food and Environmental Welfare"** sponsored by Karunya university organized by Karunya university at Coimbatore during 12/02/2015 to 01/04/2015.

35. International level Conference on "**International Conference on Chemistry in Synergy with Materials and Biology**" sponsored by Chemistry, BHC organized by Chemistry, BHC at BHC, Trichy during 01/10/2014 to 01/11/2014.
36. National level Workshop on "**State Level Workshop on "Structural Bioinformatics and Protein 3D Structure Visualization"**" sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 28/07/2014 to 28/07/2014.
37. International level Conference on "**International Conference on Biotechnological Innovations Towards Global Development**" sponsored by UGC organized by Biotechnology at BHC, Trichy during 01/09/2013 to 01/10/2013.
38. National level Seminar on "**National Seminar on Frontiers in Biotechnology**" sponsored by Nehru Memorial College organized by Nehru Memorial College at Puthanampatti during 08/08/2013 to 09/08/2013.
39. International level Conference on "**International Conference on Biotechnological Innovations Towards Global Health**" sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 09/01/2013 to 10/01/2013.
40. National level Conference on "**National Conference in Biotechnology**" sponsored by Bishop Heber College organized by Bishop Heber College at Trichy during 06/01/2011 to 06/01/2011.
41. National level Refresher on "**UGC Academic Staff college– Refresher Course in Microbiology In The recent Trends in Microbiology**" sponsored by UGC organized by Dept. of Microbiology, PGIBMS, Taramani Campus, Taramani, Chennai at Chennai during 21/01/2009 to 10/02/2009.
42. National level Conference on "**National Conference on Biotechnology**" sponsored by Society for Biotechnologists, India organized by Society for Biotechnologists, India at Amrita Institute of Medical Sciences & Research Centre, Kerala. during 13/01/2007 to 14/01/2007.
43. National level Seminar on "**Emerging trends in Animal Biotechnology**" sponsored by Bharathidasan University organized by Bharathidasan University at Trichy during 27/11/2006 to 28/11/2006.
45. International level Conference on "**International Conference on Chemical and Environmental Research**" sponsored by JMC organized by JMC at Trichy during 01/01/1900 to 17/12/2015.



1. **"Invitro Evaluation of Anticancer Potential of Elephantopus scaber L. leaves against MCF -7 Cell Lines"** in the International conference on *International Conference on Career Opportunities for life science professionals* sponsored by , organized by Theivanai Ammal College for WomenTheivanai Ammal College for Women at Villupuram during 31/01/2019 to 01/01/1900.
2. **"Promising Phytotherapeutic compounds targeted against Diabetes - An Insilico Approach"** in the International conference on *International Conference on Chemical Research and Innovations Today* sponsored by , organized by Bishop Heber College & Nanobiologists of India at Trichy during 24/01/2019 to 01/01/1900.
3. **"Protective effect of ethanolic extract of Terminalia chebula on DMBA induced mammary carcinoma in female spraque dawley rats"** in the International conference on *International Conference on New Vistas in Life Sciences* sponsored by , organized by Holy Cross College at Trichy during 11/09/2018 to 01/01/1900.
4. **"Antibacterial and Anticancer activity of Eugenia jambolana – An Invitro and Insilico approach"** in the International conference on *International Conference on New Navigation System for Prostate Cancer Therapy* sponsored by , organized by KSR College at Coimbatore during 08/08/2018 to 01/01/1900.
5. **"Future of Phyto based nano cosmeceuticals for beauty and skin therapy"** in the International conference on *International Colloquia on Bionanomaterials Bionanotechnology* sponsored by , organized by St.Josephs College at Trichy during 08/02/2018 to 08/02/2018.
6. **"Success of plant based Nanoparticles in drug delivery against Inflammation"** in the International conference on sponsored by , organized by St.Josephs College at Trichy during 08/02/2018 to 08/02/2018.
7. **"Prospects of nanocomposites as nanosensors and as novel food packaging technique"** in the International conference on *International Colloquia on Bionanomaterials Bionanotechnology* sponsored by , organized by St.Josephs College at Trichy during 08/02/2018 to 01/01/1900.
8. **"Optimization of Polyhydroxybutyrate (PHB) production using agro-wastes as substrate by Bacillus cereus"** in the National conference on *Impacts of Pollution on Health and restoration of quality environment through Biotechnology Applications* sponsored by , organized by The American College at Madurai during 02/02/2018 to 03/02/2018.
9. **"Characterization of Heavy metal-resistant bacteria isolated from Sewage from Tiruchirappalli district"** in the Select conference on *National Conference on Impacts of Pollution on Health and restoration of quality environment through Biotechnology Applications* sponsored by , organized by The American College at Madurai during 02/02/2018 to 03/02/2018.
10. **"Screening of anti- dengue activity of a few medicinal plants"** in the National conference on sponsored by , organized by Mahendra Arts & Science College at Thiruchengode during 25/01/2018 to 01/01/1900.
11. **"Detection of Multidrug resistance in Poly hydroxy butyrate producers from different soil samples"** in the National conference on *National level seminar on Current Perspectives in Biological Sciences* sponsored by , organized by Rabiammal Ahamed Maideen College for Women at Thiruchengode during 24/01/2018 to 24/01/2018.
12. **"Determining the Non-toxicity of Adathoda vasica in male wistar mice"** in the National conference on *National level seminar on Current Perspectives in Biological Sciences* sponsored by , organized by Rabiammal Ahamed Maideen College for Women at Thiruchengode during 24/01/2018 to 01/01/1900.
13. **"Introducing polymer nanocomposite material in food packaging"** in the International conference on *International Conference on Frontiers in Nano Biotechnology* sponsored by DST, organized by Bishop Heber College & Nanobiologists of India at Trichy during 08/09/2017 to 09/09/2017.



14. **"Current application of phyto compound based nanocosmeceuticals for beauty and skin therapy"** in the International conference on *International Conference on Frontiers in Nano Biotechnology* sponsored by DST, organized by Bishop Heber College & Nanobiologists of India at Trichy during 08/09/2017 to 09/09/2017.
15. **"Nanoparticles ,The crusader in phyto compounds delivery against inflammation"** in the International conference on *International Conference on Frontiers in Nano Biotechnology* sponsored by DST, organized by Bishop Heber College & Nanobiologists of India at Trichy during 08/09/2017 to 09/09/2017.
16. **"Green synthesis of silver nanoparticles using Terminalia chebula possessing antimicrobial and antioxidant activities"** in the International conference on *International Conference on Frontiers in Nano Biotechnology* sponsored by DST, organized by Bishop Heber College & Nanobiologists of India at Trichy during 08/09/2017 to 09/09/2017.
17. **"Evaluating the role of silver nanoparticles stabilized by Adathoda vasica against human respiratory isolates"** in the International conference on *International Conference on Frontiers in Nano Biotechnology* sponsored by DST, organized by Bishop Heber College & Nanobiologists of India at Trichy during 08/09/2017 to 09/09/2017.
18. **"Evaluating the potential of silver nanoparticles stabilized by Adathoda vasica targeted against cervical cancer"** in the International conference on *International Conference on Frontiers in Nano Biotechnology* sponsored by DST, organized by Bishop Heber College & Nanobiologists of India at Trichy during 08/09/2017 to 01/01/1900.
19. **"Evaluating the anticancer activity of Bioactivity guided fraction of ethanolic extract of Ficus carica fruits- an insilico analysis against breast cancer"** in the International conference on *International Conference on cancer biology: Drug discovery and novel therapeutics* sponsored by ICMR, organized by at Arupukattai during 29/09/2016 to 01/01/1900.
20. **"Green Synthesis and characterization of Adhathoda vasica leaf extract coated silver nano particles against cervical cancer-an in vitro analysis"** in the International conference on *International Seminar on Bioscience and its Applications* sponsored by , organized by at Perambalur during 30/08/2016 to 30/08/2016.
21. **"Preliminary screening of Tylophora indica against respiratory isolates"** in the International conference on *International Seminar on Bioscience and its Applications* sponsored by , organized by at Perambalur during 30/08/2016 to 30/08/2016.
22. **"Preliminary analysis on the antioxidant potential of the ethanolic extract of T. chebula"** in the International conference on sponsored by , organized by at Perambalur during 30/08/2016 to 01/01/1900.
23. **"Detoxification of heavy metals from sewage by Pseudomonas aeruginosa"** in the Select conference on *Frontiers of Bioscience* sponsored by , organized by JMC at Trichy during 05/03/2016 to 05/03/2016.
24. **"Bioremediation of tannery effluent by Westiellopsis"** in the National conference on *Frontiers of Bioscience* sponsored by , organized by JMC at Trichy during 05/03/2016 to 05/03/2016.
25. **"Ethnomedical screening of Adathoda vasica against respiratory infections"** in the Select conference on sponsored by New avenues in Life science, organized by Dhanalakshmi Srinivasan College at Perambalur during 28/01/2016 to 01/01/1900.
26. **"Green Synthesis of silver nano particles from Terminalia chebula and its application against UTI"** in the International conference on sponsored by Frontiers in Life Science, organized by SJC at Trichy during 07/01/2016 to 01/01/1900.
27. **"Application of soil based bacteria for degradation of methyl parathion to protect environment"** in the International conference on *International conference on chemical and Environmental research* sponsored by , organized by JMC at Trichy during 17/12/2015 to 17/12/2015.



28. **"Invitro Analysis of Anticancer activity of Terminalia chebula on MCF 7 cells"** in the National conference on sponsored by Herbal Focus, organized by Srimad Andavar College at Trichy during 30/09/2015 to 30/09/2015.
29. **"Evaluation of Phytochemical and Antimicrobial Screening of Adathoda vasica against a few respiratory pathogens"** in the National conference on *Herbal Focus* sponsored by , organized by Srimad Andavar College at Trichy during 30/09/2015 to 01/01/1900.



1. **"Anticancer Potential of Elephantopus Scaber L. Leaves against MCF -7 Cell Lines"** published in Asian Journal of Advances in Medical Science (PEER REVIEW) Vol. 4, Issue No. 1, January 2021 ISSN : ---.
2. **"Optimization And Molecular Characterization of PHB Production Using Peels as Substrates by Acinetobacter Calcoaceticus"** published in . Asian Journal of Advances in Research (PEER REVIEW) Vol. 10, Issue No. 1, January 2021 ISSN : ---.
3. **"Evaluating the Co-Existence of Resistance to Antibiotics and Heavy Metal Resistance by Poyhydroxy Butyrate Producers from Various Samples"** published in International Journal of Pharmacy and Biological Sciences (PEER REVIEW) Vol. 9, Issue No. 2, January 2019 ISSN : ---.
4. **"Isolation, Screening, Characterization and Detection of Multidrug Resistance in Polyhydroxy Butyrate Producers from Different Soil Samples"** published in European Journal of Biomedical and Pharmaceutical Sciences (PEER REVIEW) Vol. 5, Issue No. 12, January 2018 ISSN : ---.
5. **"1. Establishing the Antioxidant Activity of the ethanol Extract of Adathoda vasica"** published in International Journal for Research in Applied Science and Engineering Technology (PEER REVIEW) Vol. 5, Issue No. 12, December 2017 ISSN : 2321-9653.
6. **"4. Identification of The Compounds Of AdhatodaVasicaBy Gas Chromatography–Mass Spectrometry Analysis And Probing: The Mode of Action of the Compounds by In Silico"** published in Asian journal of pharmaceutical and Clinical Research Online (PEER REVIEW) Vol. 10, Issue No. 4, January 2017 ISSN : 2455-3891.
7. **"5. Establishing the Antioxidant Activity of the ethanol Extract of Adathoda vasica"** published in International Journal for Research in Applied Science and Engineering Technology (PEER REVIEW) Vol. 5, Issue No. 12, January 2017 ISSN : 2321-9653.
8. **"Evaluating Terminalia chebula for antibacterial and anticancer activity"** published in International Journal for Research in Applied Science and Engineering Technology (PEER REVIEW) Vol. 5, Issue No. 9, January 2017 ISSN : ISSN: 2321-9653.
9. **"Cytotoxic activity of a glaucoside from Eugenia jambolana against MCF 7 cells"** published in Indian journal of Pharmacology (PEER REVIEW) Vol. 48, Issue No. (1), January 2016 ISSN : ---.  
**Impact factor , Scopus Index yes, h - index , Citation index**
10. **"The Applications of Aptamers in the Field of Therapeutics"** published in Journal of Chemical and Pharmaceutical Research (PEER REVIEW) Vol. 8, Issue No. 5, January 2016 ISSN : ---.  
**Impact factor , Scopus Index , h - index 21, Citation index**
11. **"Role of a few bacterial species on biodegradation of organophosphorous pesticide (methyl parathion): An approach to access the outcome of biodegradation by GC-MS & HPLC"** published in Der Pharma Chemica (PEER REVIEW) Vol. 8, Issue No. 8, January 2016 ISSN : ---.  
**Impact factor , Scopus Index , h - index 16, Citation index**

12. **"Therapeutic Applications of Nanorobots- Respirocytes and Microbivores"** published in Journal of Chemical and Pharmaceutical Research (PEER REVIEW) Vol. 8, Issue No. 5, January 2016 ISSN : ---.
13. **"Evaluating the antioxidant and anticancer activity of Ficus carica fruits"** published in African Journal of Biotechnology (PEER REVIEW) Vol. 14, Issue No. 7, January 2015 ISSN : ---.
- Impact factor , Scopus Index yes, h - index 35, Citation index
14. **"Role of compounds from Terminalia chebula exhibiting Anti-Cholesterol property"** published in International Journal of Pharmtech Research. (PEER REVIEW) Vol. 8, Issue No. 10, January 2015 ISSN : ---.
- Impact factor , Scopus Index yes, h - index 19, Citation index
15. **"Assessing the potential of the ethanolic extracts of Terminalia chebula against breast cancer"** published in World Journal of Pharmacy and Pharmaceutical Sciences (PEER REVIEW) Vol. 2, Issue No. 6, January 2014 ISSN : ---.
16. **"Identification and Characterization of Heavy metal-resistant bacteria isolated from Sewage from Tiruchirappalli district"** published in International Journal of Pharmacy and Integrated Life Sciences (PEER REVIEW) Vol. 2, Issue No. 14, January 2014 ISSN : ---.
17. **"FTIR and HPLC analysis of bacterial degradation of methyl parathion"** published in World Journal of Pharmacy & Pharmaceutical Sciences (PEER REVIEW) Vol. 3, Issue No. 11, January 2014 ISSN : ---.
18. **"Antimicrobial activity of silver nanoparticles stabilized by green strategy using Clitoria ternatea"** published in Letters in Applied NanoBioScience (PEER REVIEW) Vol. 3, Issue No. 3, January 2014 ISSN : ---.
19. **"BOSS-Bishop Open Software Suite: A Bioinformatics software package for sequence analysis"** published in International Journal of Computational Bioinformatics and In Silico Modeling, (NON PEER REVIEW) Vol. 3, Issue No. 2, January 2014 ISSN : ---.
20. **"In vitro efficacy of bioactive extracts and fractions of two medicinal plants against drug-resistant uropathogens"** published in BMR Phytomedicine (NON PEER REVIEW) Vol. 1, Issue No. 1, January 2014 ISSN : ---.
21. **"Mechanism of action of the Compounds from Terminalia chebula and Adathoda vasica targeted against Urinary Tract Infection"** published in World Journal of Pharmacy and Pharmaceutical Sciences (PEER REVIEW) Vol. 3, Issue No. 7, January 2014 ISSN : ---.
22. **"Restoration of Liver and Muscle Glycogen by Eugenia jambolana in Diabetic Rats"** published in International Journal of Research in Pharmacy and Biosciences (PEER REVIEW) Vol. 1, Issue No. 2, January 2014 ISSN : ---.
23. **"Evaluating the Antibacterial Potential of Vitis vinifera and Punica granatum fruit peels"** published in BMR Complementary and Alternative medicine (NON PEER REVIEW) Vol. 1, Issue No. 1, January 2014 ISSN : ---.

24. **"Phytochemical and Antibacterial analysis of Kedrostis foetidissima against a few Respiratory Isolates"** published in World Journal of Pharmacy and Pharmaceutical Sciences (PEER REVIEW) Vol. 3, Issue No. 4, January 2014 ISSN : ---.
25. **"The Photosynthetic Behaviour and Biomass as indicators for the Resistance and tolerance capacity of the algae as well as its potential use for tannin removal in the tannery effluents."** published in Asian Journal of Water, Environment and Pollution (NON PEER REVIEW) Vol. 10, Issue No. 4, January 2013 ISSN : ---.
26. **"Evaluation of the Curing Effect of Terminalia chebula and Adathoda vasica against Burkholderia cepacia causing Lung Infections of Cystic Fibrosis Patients"** published in International Journal of Universal Pharmacy and Bio Sciences (SELECT) Vol. 2, Issue No. 3, January 2013 ISSN : ---.
27. **"Efficacy of Coleus aromaticus Leaf Extracts against Biofilm Formation in Cystic Fibrosis"** published in International Journal of Universal Pharmacy and Bio Sciences (PEER REVIEW) Vol. 2, Issue No. 3, January 2013 ISSN : ---.
28. **"Preliminary Phytochemical screening and Analysis of Antibacterial Activity of Terminalia chebula,"** published in International Journal of Pharmacy and Integrated Life Sciences (PEER REVIEW) Vol. 1, Issue No. 19, January 2013 ISSN : ---.
29. **"Anti-Biofilm Property of Coleus aromaticus in Staph and MRSA Superbug Infections"** published in International Journal of Universal Pharmacy and Bio Sciences (PEER REVIEW) Vol. 2, Issue No. 3, January 2013 ISSN : ---.
30. **"Assessing the curative potential of Brassica oleracea extracts against drug resistant Uropathogens"** published in Journal of Medicinal Plants Research (PEER REVIEW) Vol. 7, Issue No. 21, January 2013 ISSN : ---.  
Impact factor , Scopus Index , h - index 35, Citation index
31. **"Assessing the curative property of Moringa oleifera and investigating its mechanism of action against urinary tract infection"** published in International Journal of PharmTech Research (PEER REVIEW) Vol. 5, Issue No. 2, January 2013 ISSN : ---.  
Impact factor , Scopus Index yes, h - index 19, Citation index
32. **"Bioremediation of Tannery Effluent By Selected Species of Nitrogen Fixing Cyanobacteria-A Pilot Study"** published in International Journal of Universal Pharmacy and Bio Sciences (PEER REVIEW) Vol. 2, Issue No. 3, January 2013 ISSN : ---.
33. **"Preliminary Phytochemical creening and Analysis of Antibacterial Activity of Terminalia chebula"** published in Journal of Pharmacy and Integrated Life Sciences (PEER REVIEW) Vol. V1, Issue No. 19, January 2013 ISSN : ---.
34. **"Assessing the role of a terpenoid as effective inhibitor of beta lactamase from multidrug-resistant ESBL producing uropathogens."** published in Journal of Pharmacy and Integrated Life Sciences (PEER REVIEW) Vol. 1, Issue No. 10, January 2013 ISSN : ---.
35. **"Prevalence of silver resistance in bacteria isolated from Urinary tract infection"** published in Am. J. PharmTech Res (PEER REVIEW) Vol. 2, Issue No. 12, January 2012 ISSN : ---.



36. **"Comparing the Efficiency of Various Extracts of Coleus aromaticus against Human Respiratory Pathogens"** published in Am. J. PharmTech Res (PEER REVIEW) Vol. 3, Issue No. 2, January 2012 ISSN : ---.
37. **"Role of a novel terpenoid as efflux inhibitor in targeting the efflux protein (mex A) of multi-drug resistant Pseudomonas aeruginosa"** published in International Journal of Pharmaceutical Studies and Research (SELECT) Vol. 3, Issue No. 6, January 2012 ISSN : ---.
38. **"Co-existence of antibiotic and heavy metal resistance by bacteria from wound infection"** published in Am. J. PharmTech Res (PEER REVIEW) Vol. 2, Issue No. 4, January 2012 ISSN : ---.
39. **"Evaluating the potential of Pseudomonas aeruginosa in the biodegradation of a few dyes"** published in Am. J. PharmTech Res (SELECT) Vol. 2, Issue No. 6, January 2012 ISSN : ---.
40. **"Assessing the curative role of red soils against methicillin resistant Staphylococcus aureus isolated from pus of shingles patients"** published in Indo-Global Research Journal of Pharmaceutical Sciences. (PEER REVIEW) Vol. 2, Issue No. 1, January 2012 ISSN : ---.
41. **"Synergistic action of two Indian medicinal plants of clinical isolates of Vancomycin Resistant Enterococci specie"** published in Pharmacologyonline (PEER REVIEW) Vol. 3, Issue No. , January 2011 ISSN : ---.
42. **"Regeneration of the  $\beta$ -cells in the islets of langerhans by Eugenia jambolana in streptozotocin-diabetic rats"** published in Pharmacologyonline (PEER REVIEW) Vol. 3, Issue No. , January 2011 ISSN : ---.
43. **"Prevalence & antibacterial resistance of ESBLs among pregnant women with UTI"** published in International Journal of Pharmaceutical Sciences & Research (PEER REVIEW) Vol. 2, Issue No. 11, January 2011 ISSN : ---.
44. **"Characterisation of Methicillin Resistant Staphylococcus aureus isolates from Shingles patients"** published in International Journal of Pharmaceutical Sciences and Research (PEER REVIEW) Vol. 2, Issue No. 11, January 2011 ISSN : ---.
45. **"Investigating the mechanism of action of terpenoids and the effect of interfering substances on an Indian medicinal plant extract demonstrating antibacterial activity."** published in International Journal of Pharmaceutical Studies and Research 2011 (PEER REVIEW) Vol. 2, Issue No. 11, January 2011 ISSN : ---.
46. **"Activity of Eugenia jambolana Lam. an ethnomedicinal plant against drug-resistant bacteria"** published in Pharmaceutical Biology (PEER REVIEW) Vol. 48, Issue No. 4, January 2010 ISSN : ---.
47. **"Role of Elephantopus scaber on the Glucose oxidation in liver and skeletal muscles of streptozotocin induced diabetic adult male rats."** published in Research Journal of Medicinal Plant 2008 (PEER REVIEW) Vol. 2, Issue No. 1, January 2008 ISSN : ---.

48. **"Effect of crude extract and fractions from *Elephantopus scaber* on hyperglycemic streptozotocin induced diabetic rats"** published in International Journal of Biological Chemistry (PEER REVIEW) Vol. 1, Issue No. 2, January 2007 ISSN : ---.
49. **"Hypoglycemic and hepatoprotective activity of *Eugenia jambolana* in streptozotocin diabetic rats"** published in . International Journal of Biological Chemistry (PEER REVIEW) Vol. 1, Issue No. 2, January 2007 ISSN : ---.
50. **"Hypoglycemic and Hypolipidemic activity of *Eugenia jambolana* in streptozotocin – diabetic rats."** published in Asian Journal of Biochemistry (PEER REVIEW) Vol. 2, Issue No. 4, January 2007 ISSN : ---.
51. **"Antibiotic susceptibility of ESBL-producing urinary isolates at a tertiary care hospital in Tiruchirappalli, South India"** published in J. Med. Sci (PEER REVIEW) Vol. 7, Issue No. 3, January 2007 ISSN : ---.
52. **"Role of Terpenoids from *Elephantopus scaber* against a few extended spectrum beta-lactamase producers"** published in Research Journal of Medicinal Plant (PEER REVIEW) Vol. 1, Issue No. 4, January 2007 ISSN : ---.
53. **"In vitro efficacy of flavonoids from *Eugenia jambolana* seeds against ESBL- Producing Multidrug-resistant bacteria."** published in Research Journal of Microbiology (PEER REVIEW) Vol. 2, Issue No. 4, January 2007 ISSN : ---.
54. **"A novel terpenoid from *Elephantopus scaber* with antibacterial activity against beta-lactamase producing clinical isolates"** published in Research Journal of Microbiology (PEER REVIEW) Vol. 2, Issue No. 10, January 2007 ISSN : ---.
55. **"Evaluating the antibacterial activity of *Elephantopus scaber* extracts on clinical isolates of beta-lactamase producing methicillin resistant *Staphylococcus aureus* from UTI patients."** published in International Journal of Pharmacology (PEER REVIEW) Vol. 3, Issue No. 2, January 2007 ISSN : ---.
56. **"Saponins from *Eugenia jambolana* activity against beta-lactamase producing methicillin resistant *Staphylococcus aureus*"** published in Research Journal of Medicinal Plant (PEER REVIEW) Vol. 1, Issue No. 1, January 2007 ISSN : ---.
57. **"Exploration of anti-breast cancer effects of *Terminalia chebula* extract on DMBA induced mammary carcinoma in Sprague Dawley rats."** published in Future Journal of Pharmaceutical Sciences (PEER REVIEW) Vol. 6, Issue No. 108, January 1900 ISSN : ---.  
Impact factor , Scopus Index , h - index 18, Citation index
59. **"Evaluating the efficiency of *Ficus carica* fruits against a few Drug Resistant Bacterial Pathogens"** published in World Journal of Pharmacy and Pharmaceutical Sciences (PEER REVIEW) Vol. , Issue No. , January 1900 ISSN : ---.
60. **"Analysis of Antibacterial Activity of the Bioactive Constituents from the Acetone Extract of *Coleus aromaticus* (Benth) Leaves By Gas Chromatography –Mass Spectrometry"** published in World Journal of Pharmacy and Pharmaceutical Sciences (PEER REVIEW) Vol. , Issue No. , January 1900 ISSN : ---.

61. **"Evaluating Terminalia chebula for antibacterial and anticancer activity."** published in International Journal for Research in Applied Science and Engineering Technology (PEER REVIEW) Vol. 5, Issue No. 9, January 1900 ISSN : 2321-9653.
62. **"Assessing the curative properties of Adathoda vasica against Respiratory infections"** published in JOCP (PEER REVIEW) Vol. 8, Issue No. 7, January 1900 ISSN : ---.  
Impact factor , Scopus Index scopus, h - index 21, Citation index
63. **"Evaluation of in vitro anticancer activity of Terminalia chebula and Identification of Phytocompounds by GC MS analysis"** published in JOCP (PEER REVIEW) Vol. 8, Issue No. 7, January 1900 ISSN : ---.  
Impact factor , Scopus Index scopus, h - index 21, Citation index
64. **"A Review on a few medicinal plants possessing anticancer activity against human breast cancer"** published in International Journal of PharmTech Research (SELECT) Vol. 9, Issue No. 3, January 1900 ISSN : ---.  
Impact factor , Scopus Index scopus, h - index 19, Citation index
66. **"Isolation of Bioactive compounds from Adathoda vasica and Invitro Evaluation of their Antibacterial and Antioxidant Potential"** published in World Journal of Pharmacy and Pharmaceutical Sciences (PEER REVIEW) Vol. 7, Issue No. 4, January 1900 ISSN : 2278 – 4357.
67. **"Investigating the mechanism of action of Adathoda vasica extract against Klebsiella pneumoniae through antibiofilm study and SEM analysis"** published in International Journal of Basic and Applied Research (SELECT) Vol. 8, Issue No. 12, January 1900 ISSN : 2349 1965.
68. **"Screening of Phytochemicals, Antibacterial And Antioxidant Activities of Elephantopus Scaber Leaves"** published in World Journal of Pharmaceutical Research (PEER REVIEW) Vol. 7, Issue No. 7, January 1900 ISSN : 2277 7105.
69. **"Invitro Evaluation of Antioxidant-Mediated Apoptosis on Cancer Cells And Non-Toxicity of Ethanolic Extract of Terminalia chebula Retz and Pyrogallol"** published in Asian Journal of Pharmaceutical and Clinical Research (PEER REVIEW) Vol. 12, Issue No. 1, January 1900 ISSN : 2436 1891  
Impact factor , Scopus Index , h - index 23, Citation index
70. **"Probing the mechanism of the antidiabetic potential of a terpenoid from Elephantopus scaber L., an Indian ethnomedicinal plant in STZ diabetic rats-an Invivo and Insilico analysis"** published in Indian Journal of Biochemistry and Biophysics (PEER REVIEW) Vol. 55, Issue No. , January 1900 ISSN : ---.
75. **"A novel steroid from Elephantopus scaber L. an ethnomedicinal plant with antidiabetic activity."** published in Phytomedicine (PEER REVIEW) Vol. 16, Issue No. (2), January 1900 ISSN : ---.
77. **"Investigating the mode of action of silver nanoparticles stabilized by Adathoda vasica targeted against multidrug resistant [MDR] urinary isolates."** published in Der Pharmacia Lettre, (PEER REVIEW) Vol. 8, Issue No. 8, January 1900 ISSN : ---.  
Impact factor , Scopus Index scopus, h - index 11, Citation index
78. **"Evaluation of in vitro antioxidant and anti-inflammatory property exhibited by silver nanoparticles stabilized by Adathoda vasica."** published in JOCP (PEER REVIEW) Vol. 8, Issue No. 5, January 1900 ISSN : ---.  
Impact factor , Scopus Index scopus, h - index 21, Citation index



79. **"Role of a few bacterial species on biodegradation of organophosphorous pesticide (methyl parathion): An approach to access the outcome of biodegradation by GC-MS & HPLC."**  
published in Der Pharma Chemica, (PEER REVIEW) Vol. 8, Issue No. 8, January 1900 ISSN : ---.  
Impact factor , Scopus Index scopus, h - index 16, Citation index

**Publication in Books - 9**

1. **Systems Biology and Human Diseases.** *Systems Biology Approaches: Prevention, Diagnosis, and Understanding Mechanisms of Complex Diseases.* :Springer, January 2024.
2. **A disease driven approach to medicinal natural products.** *Phytopharmaceuticals and Biotechnology of Herbal plants.* :Taylor and Fransis, CRC Press, December 2022.
3. **Herbal Medicinal compounds and their anti-breast cancer actions.** *Phytopharmaceuticals and Biotechnology of Herbal plants.* :Taylor and Fransis, CRC Press,, December 2022.
4. **Interface of 'meta-omics' in gut biome remediation to unravel the complications of environmental pollutants.** *Metagenomics to Bioremediation.* :Elsevier, Academic Press, September 2022.
5. **MCF 7 Cells – A Model towards Breakthrough in Breast Cancer Therapy, Horizons in Cancer Research (Numbered Series), Medicine and Health.** *Horizons in Cancer Research (Numbered Series), Medicine and Health.* :Nova Medicine and Health, Oncology, August 2021.
6. **Regeneration of Beta Cells by Inhibition of pro-Apoptotic Proteins through Phyto compound in STZ Induced Diabetic Albino Wistar Rats: In Vivo and In Silico Approach.** *Structure and Health Effects of Natural Products on Diabetes Mellitus.* China :Springer Nature, January 2021.
7. **Evaluation of the mechanism of action of a safer nutritional and therapeutic drug from Brassica oleracea against urinary tract infection in pregnant women.** *Medicinal Plants as Antioxidant agents: Understanding Their Mechanism of Action and Therapeutic Efficacy.* Kerala :Editor : Anna Capasso, January 2012.

**Books Published / Edited - 4**

- \* . **Molecular tools in Cancer Diagnosis and Clinical Research.** Germany : LAP- LAMBERT – Academic Publishing. Germany , January 2020.
- \* Navaraj Selvakumar . **Instant notes in Zoonosis.** Germany : LAP- LAMBERT – Academic Publishing. Germany , January 2018.
- \* . **Medicinal Plants against Urinary Tract Infections.** Germany : LAP- LAMBERT – Academic Publishing. Germany , January 2013.
- \* . **Basic Protocols in Animal Biotechnology.** : LAP- LAMBERT – Academic Publishing. Germany , January 1900.



## Conferences / Workshops / Seminars Organised

- 9

1. International level Conference Entitled **"International Conference, CT-CEB"** at Bishop Heber College, Trichy, sponsored by , during 18/03/2021 to 19/03/2021.
2. International level Conference Entitled **"International Conference on Prospects of Biosciences in Transdisciplinary Research"** at Bishop Heber College, Trichy, sponsored by , during 21/01/2020 to 22/01/2020.
3. National level Conference Entitled **"National Conference on Unravelling Biometabolites with Bioactivity"** at Bishop Heber College, Trichy, sponsored by , during 25/02/2019 to 25/02/2019.
4. International level Conference Entitled **"International Conference in Nano Biotechnology"** at Bishop Heber College, Trichy, sponsored by , during 09/08/2017 to 09/09/2017.
5. National level Conference Entitled **"Computational Analysis of Molecular in synergy with Biological Applications"** at Bishop Heber College, Trichy, sponsored by , during 02/03/2017 to 01/01/1900.
6. International level Conference Entitled **"Recent Advances in Synthetic Biology"** at Bishop Heber College, Trichy, sponsored by , during 01/08/2015 to 01/09/2015.
7. International level Conference Entitled **"Biotechnological Innovations Towards Global Health"** at Bishop Heber College, Trichy, sponsored by , during 01/09/2013 to 01/10/2013.
8. National level Conference Entitled **"National Conference in Biotechnology-Its Advent and future Promises"** at Bishop Heber College, Trichy, sponsored by , during 01/01/2011 to 01/01/1900.
9. National level Conference Entitled **"National Conference on Futuristic Biosciences Research"** at Holy Cross College, Trichy, sponsored by , during 18/11/2004 to 20/11/2004.

## Awards Recieved - 1

Award Name	Presented by	Year	Level	Instituted by / Place	amount
Barat Ratan	Global Society for Health	01/02/2014	NATIONAL		

## PROFESSIONAL MEMBERSHIP - 2

- \* LM-334 of Indian Association of Applied Microbiologists during 01/01/2016 - life long
- \* Member No. 201651 of Member of Asia-Pacific Chemical, Biological& Environmental Engineering Society during 01/01/2015 - life long

## TRAINING PROGRAMME - 1

- # INTERNATIONAL level on **"Sylvester Cancer Institute, University of Miami, Florida. USA."** Sponsored by University of Miami, USA, Organized by at Florida, USA during 01/04/2002 - 15/04/2003.

## RESOURCE PERSON

- 7

1. International level Seminar on **"Speaker at the 4th Seminar on Biological Security and Sustainability (BIOSES 2022) on 28th June, 2022 organised by the University Malaysia Terengganu, Malaysia"** at Malaysia, 28/06/2022.
2. College level Chair Person on **"Human Microbiome in Health & Disease"** at JMC, Trichy, 16/03/2021.
3. College level Workshop on **"Capacity Building Faculty Development Programme on Basic microbiological Techniques for Faculty members of Food & Nutrition Department"** at BHC, Trichy, 13/12/2020.
4. College level Invited Lectures on **"Emergence of Antibacterial Resistance and Alternate Therapy"** at Cauvery College, Trichy, 01/08/2016.
5. International level Invited Lectures on **"Evaluation of Eugenia jambolana seeds on diabetes and its associated complications"** at Guangzhou, China, 01/01/2014.
6. College level Invited Lectures on **"Emergence of Antimicrobial resistance-a threat?"** at St. Josephs College, Trichy, 01/01/2012.
7. International level Invited Lectures on **"Invitro susceptibility of a few bacteria by Elephantopus scaber"** at Guangzhou, China, 01/01/2007.

## JOURNAL REFEREE

1. **Reviewer** of International Journal *"Research Journal of Microbiology"*(vol. ) at USA during 01/01/1900 - .

## PATENT

- 2

Type	Nature	Patent No.	Status	Month & Year
NATIONAL		285131	GRANTED	7/17/2017 12:00:C
NATIONAL		244666	GRANTED	12/15/2012 12:00



## Additional Information

- @ • Gold medalist & University topper in UG & PG
- Holding two Indian Patents for plant compounds with medicinal properties
- Teaching Microbiology & Biotechnology for over 23 years
- Trained in animal cell culture at Sylvester Cancer Institute, Miami, USA

### @ GENE SEQUENCE DEPOSITED IN THE WORLD GENE BANK

1. Gene sequence of Escherichia sp. strain 217 16S ribosomal RNA gene, partial sequence submitted on 3-10-2016 (ACCESSION KX929843), Deena Priscilla,H., Jasmine,R., Ebenezer,K.S. and Marimuthu,P

2. Gene sequence of Bacillus cereus 16S ribosomal RNA gene, partial sequence submitted on 24-04-2017 (ACCESSION KY949234), R Jasmine, S Hannah, Muhil Vannan Seralathan

3. Gene sequence of Klebsiella pneumonia 16S ribosomal RNA gene, partial sequence submitted on 25-04-2018 (ACCESSION MH249999), Sharly,E., Daisy,P., Jasmine,R. and Seralathan, MV

4. Gene sequence of Acinetobacter calcoaceticus 16S ribosomal RNA gene, partial sequence submitted on 02-05-2019 (ACCESSION MK875784), Jasmine,R., Lekhasri,R., Varsha,S., Kaviyarsu,M., Kavya,S., Harish,k. and Ganesh Kumar,A.

5. Gene sequence of Leuconostoc mesenteroides 16S ribosomal RNA gene, partial sequence submitted on 18-03-2021 (ACCESSION MW766999), Jasmine R, Varsha S, Lekhasri R, Kaviyarasu M, Seralathan MV

6. Gene sequence of Rhodotorula mucilaginosa 16S ribosomal RNA gene, partial sequence submitted on 23-03-2021 (ACCESSION MW799826), Jasmine R, Ganesh Kumar P, Lekhasri R, Seralathan MV

- @ 1. Gene sequence of Escherichia sp. strain 217 16S ribosomal RNA gene, partial sequence submitted on 3-10-2016 (ACCESSION KX929843), Deena Priscilla,H., Jasmine,R., Ebenezer,K.S. and Marimuthu,P



**Signature of Staff**

**(R.JASMINE)**