

PROFILE



Name : **Dr. M. KANNAN**
Department : Zoology
Designation : Assistant Professor
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Experience in Teaching : 20 Yrs. (M.Phil. 10 Yrs. PG 17 Yrs. UG 20 Yrs.)
Experience in Research : 15 years
Date of Birth : 23/05/1978
Education Qualification : M.Sc., M.Phil., Ph.D.,

Titles of Dissertation

M.Phil.: *In Vitro* Studies on Some Coastal and Terrestrial Herbal Plant Extracts against Wound Infecting Bacteria.

Ph.D.: Evaluation of Immunomodulatory Potential of *Nyctanthes arbor-tristis* Linn. and *Rubia cordifolia* Linn.

Areas of Specialization:

- ❖ Phytochemistry, Immunopharmacology and Anticancer studies.
- ❖ Biosynthesis of silver nanoparticles against biofilm forming pathogenic bacteria.
- ❖ Probiotics development

Edx/Course Era Courses Attended:

1. **Course Era - Mind Control: Managing Your Mental Health During COVID-19** **University of Toronto**, Completed on November 10, 2021
2. **Course Era - Genomic Data with Galaxy** Jan. 2021, An Online Non-Credit Course Authorized by **Johns Hopkins University** and offered through Coursera.
3. **Course Era - Programming for Everybody (Getting Started with Python)** Nov 2020, An Online Non-Credit Course Authorized by **University of Michigan** and offered through Coursera.
4. Refresher Course in Zoology organized by UGC-Human Resource Development Centre, Bharathiar University, Coimbatore. from 20.06.2019 to 03.07.2019.
5. Orientation Course – UGC sponsored 102nd Orientation Programme from 18/5/2018 to 14/06/2018 at Bharathidasan University, Trichy.
6. MOOC - NPTEL – IIT KHARAGPUR organised Certificate course on “Outcome Based Pedagogic Principles for Effective Teaching course” 4 WEEK online course. April 2018.
7. **Edx - The Extremes of Life: Microbes and Their Diversity - course offered by Kyoto University, Japan. Successfully completed in August 2018.**
8. MOOC - NPTEL – IIT KANPUR organised Certificate course on “Wild Life Conservation” 8 WEEK course. November 2018.
9. MOOC – ICAR – TELAgE – NAARM organised online course on “Dynamics of Teaching-Learning” 4 WEEK course. November 2018.

Projects:

| Major Research Projects | Funding Agency | Sanctioned amount |
|--|----------------|-------------------|
| Ecofriendly synthesis of AgNo ₃ and AgI nanoparticles to the management and destabilization of biofilms forming bacteria | UGC 2013-16 | Rs. 11,39,800/- |
| Technology Development and standardisation of extraction of eco friendly dyes from plants for traditional textile crafts” was sanctioned by Department of Science & Technology | DST 2013-16 | Rs. 18,32,959/- |

Minor Research Projects

| Minor Research Projects | Funding Agency | Sanctioned amount |
|---|---|-------------------|
| Effects of probiotics supplemented nutraceutical feeds on poultry hens and Eggs | TNSCST-Chennai | Rs. 10000/- |
| Mushroom cultivation and training programme | Dissemination of Innovative Technology (DIT) - TNSCST-Chennai | Rs. 40000/- |
| Bioelectricity Production from Coir Industry Waste using Bacteria as Microbial Fuel Cell | TNSCST-Chennai | Rs. 6000/- |
| Screening of ethno-veterinary medicinal plants against selective domestic animal diseases | TNSCST-Chennai | Rs. 5000/- |

Ph.D., M.Phil., Guided

| Degree | Awarded | Submitted | doing |
|--------|---------|-----------|-------|
| Ph.D. | 4 | - | 1 |
| M.Phil | 29 | - | - |

Seminars Organized as co-ordinator/Member:

1. Member - In National wildlife week webinar in Introduction to the world of Butterflies, on 8th October 2020.
2. Member - In state level seminar on recent strategies in forest resources management, (under UGC Autonomous Grant) 16th Feb 2018 at VHNSN College, Virudhunagar.
3. Member - NAAC Sponsored Hands on Training Programme in Reference Management Tools for Research Scholars (under UGC Autonomous Grant) 09th March 2018 at VHNSN College, Virudhunagar.
4. Member - Workshop on two days faculty development programme theme: Redefined role of teachers (under UGC Autonomy Grant) held on 15.02.2017 and 16.02.2017 at VHNSN College, Virudhunagar.
5. Member - NAAC Sponsored National Level workshop on "The role of National Skills Qualifications Framework (NSQF) in Designing the Curriculum organized by Internal Quality Assurance Cell (IQAC)", on 29th & 30th September, 2016 at VHNSN College, Virudhunagar.

6. Member - UGC Sponsored National Level Seminar on Human Rights to Peace - Ethics and Policies organized by Internal Quality Assurance Cell (IQAC), on 18th & 19th December, 2015. VHNSN College, Virudhunagar.
7. Inter collegiate student seminar on Prospects of Microbial Technology, 24th Feb. 2012, Department of Microbiology, VHNSN College, Virudhunagar.

Workshop Organized as convenor/ co-ordinator:

1. Organizing Secretary - Virtual workshop on "Advanced PCR Techniques" on 10th February 2021 under DBT - STAR COLLEGE SCHEME for Strengthening UG Science.
2. "Mendeley Reference Manager and PDF organizer" Training Programme for research scholars held at VHNSN College, Virudhunagar On 13/2.2019
3. Mushroom cultivation and training programme sponsored by Dissemination of Innovative Technology (DIT) - Tamilnadu State Council for Science and Technology, Chennai. **on 05/03/2014.**

MOOC COURSE / WORKSHOP ATTENDED

2022

1. **Completed "10 Days Online Certificate Course on "Open-Source Tools for Research":** organized by the Department of Computer Science & Applications, Sanatan Dharma College, Ambala Cantt from Sep 11 to Sep 20, 2022

2021

2. **Completed "10 Days Online Certificate Course on "Designing Captivating Presentation with PowerPoint"** organized by the Department of Computer Science & Applications, Sanatan Dharma College, Ambala Cantt **from Nov. 21 to Nov. 30, 2021.**
3. **Completed "10 Days Online Certificate Course on " Design Hassle-Free Websites With WORDPRESS"** organized by the Department of Computer Science & Applications, Sanatan Dharma College, Ambala Cantt **from Sep 1 to 10, 2021.**
4. **Completed "10 Days Online Certificate Course on "Open-Source Tools for Research":** organized by the Department of Computer Science & Applications, Sanatan Dharma College, Ambala Cantt from Oct 21 to Oct 30, 2021.
5. **Completed "10 Days Online Certificate Course on Mastering Excel: Tour from Beginner to Advance-4:** organized by the Department of Computer Science & Applications, Sanatan Dharma College, Ambala Cantt from July 21 to July 30, 2021.

6. Successfully completed one week faculty development programme on "**Safety and Security in Online Teaching**" from June 22 to June 28, 2021 and obtained **Grade A**. Organized by Teaching Learning Centre Ramanujan College, University of Delhi sponsored by Ministry of Human resource development pandit madan mohan malaviya National Mission on Teachers and Teaching.
7. Completed "**10 Days Online Certificate Course of Professional Documents with Microsoft Word-II**": organized by the Department of Computer Science & Applications, Sanatan Dharma College, Ambala Cantt from June 21 to June 30, 2021.
8. Completed "**10 Days Online Certificate Course of Technical Writing With LaTeX**" organized by the Department of Computer Science & Applications, Sanatan Dharma College, Ambala Cantt from May 15, 2021, to May 24, 2021.
9. Completed 10 days Online Course On "**Learner Centric Content Design Tools-2**" from May 05, 2021 to May 14, 2021 organized by Department of Computer Science & Applications, Sanatan Dharma College, Ambala Cantt.
10. Successfully completed one week faculty development programme on "Open Source Tools For Research" from 03 - 09 April, 2021 and obtained **Grade A+**. Organized by Teaching Learning Centre Ramanujan College, University of Delhi sponsored by Ministry of Human resource development pandit madan mohan malaviya National Mission on Teachers and Teaching.
11. Successfully completed Two weeks National Interdisciplinary Refresher Course on "Research Methodology and Data Analysis (Sharpening Skills through MSEXcel, SPSS, MATLAB and R)" from 24th March to 7th April, 2021 and obtained Grade A+. Organized by Teaching Learning Centre Ramanujan College, University of Delhi sponsored by Ministry of Human resource development pandit madan mohan malaviya National Mission on Teachers and Teaching and Indian Accounting Association, NCR Chapter.

2020

12. Successfully completed One Week FDP on Higher Education: Road Ahead "Developing Next Generation Academic Leaders ", (November 25th- December 1st, 2020) Organized by Department of Commerce and IQAC, Sri Venkateswara College, University of Delhi & Teaching Learning Centre Ramanujan College, University of Delhi sponsored by Ministry of Human resource development pandit madan mohan malaviya National Mission on Teachers and Teaching
13. Successfully completed one week online Certificate Course on DIGITAL TEACHING TECHNIQUES organized by ICT Academy from 29 Jun 2020 to 04 Jul 2020.

14. Successfully completed One Week Faculty Development Programme on "Open Source Tools for Research" from June 08 - June 14, 2020. Organized by Teaching Learning Centre, Ramanujan College, University of Delhi sponsored by Ministry of Human resource development pandit madan mohan malaviya National Mission on Teachers and Teaching
15. Successfully completed 7 days faculty development programme on Institutional Benchmarking of Best Practices From 8th June to 14th June 2020 Gandhigram University, Gujarat.
16. Two weeks Faculty Development Programme on "Managing online classes and Co-Creating Moocs:2.0" from **May 18- June 03, 2020** Organized by Teaching Learning Centre Ramanujan College, University of Delhi sponsored by Ministry of Human resource development pandit madan mohan malaviya National Mission on Teachers and Teaching.
17. Successfully completed "Faculty Awareness Program on NAAC Accreditation" Organized by RD's Shri Chhatrapati Shivajiraje College of Engineering, Dhangawadi, Pune-412206 conducted online during the period of 10/05/2020 to 15/05/2020.
18. The National Workshop on "Biodiversity Assessment of Herpetofauna and other Organisms" organised by Herpetology Laboratory, Department of Zoology and Wildlife Biology, Government Arts College, Udthagamandalam, The Nilgiris, Tamil Nadu on 28th&29th February 2020.

2019

19. Five day National Level Workshop on "Applications of Statistics in Social Science Research Using SPSS " organized by Senthil Research Advocacy Forum, V.H.N.S.N College (Autonomous), Virudhunagar. On 11th-15th November 2019.
20. Three day National Level Workshop on "Data Analysis For Social Science Research" Organized by Senthil Research Advocacy Forum, V.H.N.S.N College (Autonomous), Virudhunagar. On 21th-23th August 2019.
21. The State Level Sensitizing Workshop on Intellectual Property Rights (IPR) and Technology Licensing organised by the Internal Quality Assurance Cell of Virudhunagar Hindu Nadar's Senthikumara Nadar College (Autonomous), Virudhunagar under the UGC Autonomous grant on 1.3.2019.
22. One-day State Level Technical Workshop on "E- Content Development" held on 14th August 2019 at Sri S.Ramasamy Naidu Memorial College, Sattur.
23. The National level Workshop on "Research Probity and Plagiarism" organised by The Library, Ayya Nadar Janaki Ammal College, Sivakasi, on 29th January 2019.

2018

24. Workshop for three days on "Train the Trainer " National Workshop on Creating Alternative Digital Teaching Learning Environment in Higher Education in Asia

(UBCHEA) organised by Fatima College, Madurai, From 6th-8th September, 2018.

2017

25. Workshop on two days faculty development programme theme: Redefined role of teachers (under UGC Autonomy Grant) held on 15.02.2017 and 16.02.2017 at VHNSN College, Virudhunagar.

2016

26. The workshop on two days SPSS in social science research programme theme: Redefined role of research scholar, Delivered lecture on Recent tool for reference management held on 16.12.2016 and 17.12.2016 at VHNSN College, Virudhunagar
27. Workshop on One day faculty development programme theme: Redefined role of teachers (under UGC Autonomy Grant) held on March 5, 2016 at Sourashtra College, Madurai.

2015

28. Workshop on Review, evaluation and action plan for UGC community colleges and B.Voc. centres in Tamilnadu & Kerala on 20 & 21/8/2015 at Jayaraj Annapackiam College for Women, Periyakulam.

2014

29. UGC-New Delhi Sponsored five days training on e-content development for Teaching organized by VHNSN College, Virudhunagar from 11th to 15th Mar, 2014.

2012

30. Three days training on ICPT software Applications in Teaching organized by VHNSN College, Virudhunagar from 25rd to 28th Nov, 2012.
31. Three days training on Application of Statistics in Research using SPSS organized by VHNSN College, Virudhunagar from 23rd to 25th April, 2012.
32. TNSCST Sponsored Orientation Programme on "Research activities in Science", March 21-22, 2012. At School of Biological Science, MKU - Madurai.
33. The pre-conference workshop on "*Publishing your research in impact journals*" was held on February 17, 2012 conducted by the International Congress of "Ethnopharmacology" held at Jadavpur University, Kolkata.

2011

34. National workshop on "Bioinformatics Tools: Sequence analysis, Molecular visualization and Docking" on 4th to 7th January 2011, held at TBGRI Thiruvananthapuram.

2010

35. DST, New Delhi sponsored National Conference on Traditional Crafts held at Sri Paramakalyani College, Alwarkurichi on 7/12/2010.

2009

36. Hands on training programme in “Biotechnology and Immunology for college teachers” on 16th - 19th Feb, 2009, held at Sri Paramakalyani College, Alwarkurichi.

37. Participated in the two days “Workshop on Nanoscience & Technology in Diagnostic Application & Drug Delivery” 11th and 12th Aug. 2009, held at VHNSN College, Virudhunagar.

2008

38. Participated in the two days “Workshop on Research orientation for Science Lecturers” on 17-04-2008, held at VHNSN College, Virudhunagar.

2007

39. “Workshop on Advanced Training in Modern Biology” on 26th - 27th Jul, 2007, held at Sri Paramakalyani College, Alwarkurichi.

2006

40. Mushroom cultivation and Training Programme, TNAU - Killikulam. 10/01/2006.

National/International level Seminars, Symposium and Conferences Attended and Papers Presented

| | National Level | International | Total |
|-----------|----------------|---------------|-------|
| PRESENTED | 48 | 14 | 62 |
| ATTENDED | 28 | 9 | 37 |

| | Title of the paper | Conference/ Seminar | Organized by | Role |
|---|---|---|--|--------------|
| 1 | Human health and infectious diseases | National level Webinar | V.H.N.S.N College, Virudhunagar on 30th July 2020. | Participated |
| 2 | Outcome based Assessment Strategies | webinar | V.H.N.S.N. College, Virudhunagar, on 18th July 2020. | Participated |
| 3 | Emerging Trends in Bio- inorganic and Pharmaceutical Chemistry (ETBPC - 2019) | National Seminar by Science and Engineering Research Board (SERB). | 27&28 February 2019, at V.H.N.S.N College, Virudhunagar | Participated |
| 4 | Amylase production by Lactobacillus sp. Using cassava Fibrous Residue (CFR) | National Conference on “ Current Scenario of Biotechnology towards Health care and Environment” | 21&22 August, 2019. at Noorul Islam College of Arts and Science, Kumarcoil | Presented |

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| 5 | Extremophilic Microbes for Sustainable Development in Agriculture, Environment and Health (EMAEH -2018) | International Conference | 19 -21 December, 2018. at Periyar University, Salem. | Participated |
| 6 | Green Synthesis and Characterization of Zinc Oxide Nanoparticles Using <i>Aloe Barbedensis</i> Miller (<i>Aloe Vera</i>) | International Conference on "Recent Advances on Materials for Energy and Environmental Remediation (RAMEER - 2018)" | Department of Chemistry, VHNSN College (Autonomous) Virudhunagar 28&29 June 2018. | Presented |
| 7 | Microbial Reduction and FTIR Analysis of Heavy Metal Chromium (Cr) | International Conference on recent Advances on Materials for Energy and Environmental Remediation (RAMEER - 2018) | Department of Chemistry, VHNSN College (Autonomous) Virudhunagar. 28&29 June 2018 | Presented |
| 8 | Antibacterial Activity of Phycocyanin and beta carotene Extracted from <i>Spirulina plantensis</i> | National Seminar on "Challenges and Advances in Microbiology" (CAM - 2018) | Department of Microbiology Annamalai University, Chidambaram - 608 002 Feb 1&2 2018. | Participated and Presented |
| 9 | Antimicrobial and Anti Haemolytic activity of novel antioxidant compound isolated from Lettuce and <i>Pipper Betel</i> plant extracts | National Seminar on "Challenges and Advances in Microbiology" (CAM - 2018) | Department of Microbiology Annamalai University, Chidambaram - 608 002 Feb 1&2 2018. | Participated and Presented |
| 10 | Optimization and Characterization of Green Synthesized Silver Nanoparticles and its Inhibitory Activity against Biofilm forming Bacterial Pathogens. | UGC Sponsored National Seminar on Recent Advances in C (RACR - 2017) | 2017, at V.H.N.S.N. College (Autonomous) Virudhunagar. | Presented |
| 11 | Biosynthesis of Silica nanoparticles by <i>Fusarium oxysporum</i> and <i>Lactobacillus</i> sp. and antimicrobial activity against biofilm forming MRSA. | National Seminar on Frontiers in Biomimicry Medicine (FBM 2017) | Thiruvalluvar Arts and Science College, Kurinjipadi. 6 th October 2017 | Participated and Presented |
| 12. | Phytochemical Screening and antioxidant Potential of <i>Vitex negundo</i> Sp. | National Seminar on Cancer Immunology and Immunotherapy | Saiva Bhanu Kshatriya College Aruppukottai 21 & 22 September 2017. | Presented |
| 13 | Biodiversity, Cultivation parameters & Mycochemical | 2nd National Conference on "Frontiers in | 16&17 March 2017 at Periyar | Presented |

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| | | Ecobiological Science and its Applications (FESA 2017)" Theme: Environmental Security. | University, Salem-11 | |
| 14 | Biosynthesis, process optimization and characterization of Cadmium sulfide nanoparticles against wood degrading termite | National seminar on "Recent advances in bioorganic and medicinal chemistry (RABAMCHEM-2017) | VHNSN College (Autonomous) Virudhunagar on 15.02.2017 | Presented |
| 15 | Optimization and Characterization of Green Synthesized Silver Nanoparticles and Its Inhibitory Activity Against Biofilm Forming Bacterial Pathogens. | National seminar on "Recent advanced in chemical research (RACR-2017) " | VHNSN College (Autonomous) on 24.01.2017 &25.01.2017 | Presented |
| 16 | Drug resistance patterns analysis of biofilm forming bacteria isolated from clinical specimens | "National conference on Emerging infectious and curative measures" | Kamaraj College Thoothukodi on 23.12.2016 and 24.12.2016 | Presented |
| 17 | Bioactive Compounds Characterization In Lycoperdon Perlatum Collected From Sayalgudi, Coastal Region of Tamilnadu | "National conference on Emerging infectious and curative measures" | Kamaraj College Thoothukodi on 23.12.2016 and 24.12.2016 | Presented |
| 18 | Bioactive compounds characterization in Lycoperdonperlatum collected from east coastal regions of Tamilnadu | International Conference on Food Energy and Water Microbiology (ICFEWM 2016) | Department of Microbiology. Periyar University, Salem on December 21-23, 2016 | Presented |
| 19 | Molecular characterization of microbial community assessment of indigo fermentation | "National conference on New biological research: opportunities and challenges of sustainable development " | Madurai Kamaraj University Madurai on 11.08.2016 and12.08.2016 | Presented |
| 20 | Optimization of bio-plastic producing bacteria from oil contaminated soils of virudhunagar | "National conference on New biological research: challenges for sustainable development " | Madurai Kamaraj University Madurai on 11.08.2016 and12.08.2016 | Presented |

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| 21 | Silver nanoparticles impede the biofilm formation by <i>Proteus mirabilis</i> and <i>Klebsiella pneumoniae</i> in indwelling medical devices | International conference on "Recent Trends In Biological Research" | Ayya Nadar Janaki Ammal College, Sivakasi on 22/12/2015 | Presented |
| 22 | Biosynthesis and fabrication of silver nanoparticles (Ag-NPs) and their applications against methicillin resistant <i>Staphylococcus aureus</i> (MRSA) | International satellite symposium on "Emerging Trends In Nanotechnology" | Thassim Beevi Abdul Kader College for women, Kilakarai on 17 & 18/12/2015 | Presented |
| 23 | Bioactivity studies on phycocyanin and beta carotene separated from <i>Spirulina platensis</i> and its application in fabric dyeing. | National seminar on "Current Research In Microbiology - 2015" | Ayya Nadar Janaki Ammal College, Sivakasi on 19 & 20/03/2015 | Presented |
| 24 | Biosynthesis, characterization and application of silver nanoparticles using <i>Thermomonospora</i> sp. and <i>Fusarium</i> sp. | National seminar on "Current Research In Microbiology - 2015" | Ayya Nadar Janaki Ammal College, Sivakasi on 19 & 20/03/2015 | Presented |
| 25 | <i>Lawsonia inermis</i> - A study of antioxidant and herbal dye for fabrics | National seminar on "Current Research In Microbiology - 2015" | Ayya Nadar Janaki Ammal College, Sivakasi on 19 & 20/03/2015 | Presented |
| 26 | Biomining by certain soil bacteria - <i>In vitro</i> study | National conference on "Global Trends and Challenges In Biosciences" | Dr. MGR Janaki College of Arts and Science for Women, Chennai on 5 & 6/12/2014 | Presented |
| 27 | Stress tolerant plant growth promoting Rhizobia for the cultivation of groundnut in the semi-arid regions of Tamilnadu | National conference on "Global Trends and Challenges In Biosciences" | Dr. MGR Janaki College of Arts and Science for Women, Chennai on 5 & 6/12/2014 | Presented |
| 28 | Biodiversity, cultivation and mycochemical analysis of wild mushrooms <i>Lycoperdon perlatum</i> collected from western ghats of Tirunelveli district | National conference on "Empowering Mankind with Microbial Technologies (AMI-EMMT-2014) | Tamilnadu Agricultural university, Coimbatore on 12 - 14/11/2014 | Participated and Presented |
| 29 | Bio-active compounds screening | National conference on | Tamilnadu | Participated |

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| | in endophytic fungi isolated from <i>Aloe vera</i> | "Empowering Mankind with Microbial Technologies (AMI-EMMT-2014) | Agricultural university, Coimbatore on 12 - 14/11/2014 | and Presented |
| 30 | Effect of AgI nanoparticles against biofilms forming <i>Proteus mirabilis</i> isolated from UTI samples | International conference on "Physiology and Medicine - 2014) | Periyar university, Salem on 15 - 17/10/2014 | Presented |
| 31 | Analysis of antibacterial activity of selected plant Leaves eaten by folivory bats in Tirunelveli region | National seminar on "Frontiers in Environmental Research and Applications (FERA 2014) | Periyar university, Salem on 18/02/2014. | Presented |
| 32 | Eco Friendly natural dye development from <i>Hibiscus rosa sinensis</i> & its antimicrobial activities | National seminar on "Current Trends In Biodiversity Conservation & Forest Management" | Periyar university, Salem on 6/01/2014 & 7/01/2014 | Presented |
| 33 | In Vitro screening of methanolic extract of <i>Murraya koenigii</i> against selected skin pathogens | National seminar on "Current Trends In Biodiversity Conservation & Forest Management" | Periyar university, Salem on 6/01/2014 & 7/01/2014 | Presented |
| 34 | Bio-Synthesis, Characterization, Optimization and Application of Tio2 Nanoparticles by <i>Fusarium oxysporum</i> | 11th National Conference of Indian Association of Applied Microbiologists (IAAM) | PSG College of Arts & Science, Coimbatore, 29 - 30 Nov 2013. | Presented |
| 35 | Ecofriendly natural dye development from <i>Spirulina plantensis</i> & its antimicrobial activities | International Symposium On 'Frontier Discoveries And Innovations In Microbiology And Its Interdisciplinary Relevance' | Maharshi Dayanand University, Rohtak--124001, Haryana, India on 17/11/2013 to 20/11/2013 | Participated and Presented |
| 36 | Effects of probiotics supplemented nutraceutical feeds on poultry chickens & eggs | International Symposium On 'Frontier Discoveries and Innovations In Microbiology And Its Interdisciplinary Relevance' | Maharshi Dayanand University, Rohtak--124001, Haryana, India on 17/11/2013 to 20/11/2013 | Participated and Presented |
| 37 | Green synthesis of silver nanoparticles by <i>Lactobacillus sp.</i> & application in Azo dye decolourization | National seminar on "Approches & Applications of Nanoscience & Nanotechnology" | ANJA College, Sivakasi on 12/09/2013 & 13/09/2013 | Presented |
| 38 | Immunopharmacological & phytochemical studies of <i>Murraya koenigii</i> -Medicinal plant | National conference on "New Opportunities & Challenges In Microbial Research" | Bharathidasan University, Trichy on 5/09/2013 & 6/09/2013 | Presented |

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| 39 | Isolation & screening of keratinolytic bacteria from chicken feather dumping soil | National conference on "New Opportunities & Challenges In Microbial Research" | Bharathidasan University, Trichy on 5/09/2013 & 6/09/2013 | Presented |
| 40 | Phytochemical, antioxidant & antimicrobial studies of <i>Lawsonia inermis</i> -A medicinal plant | National conference on "New Opportunities & Challenges In Microbial Research" | Bharathidasan University, Trichy on 5/09/2013 & 6/09/2013 | Presented |
| 41 | Phytochemical analysis of selected plant leaves consumed by the folivorous bats in Tirunelveli | National science day & 44 th Aqua-Terr annual conference on "BIOLOGICAL SCIENCES" | Madurai kamaraj University on 28/02/2013 | Presented |
| 42 | Effect of probiotics on <i>Vibrio harveyi</i> isolated from salt pan & marine prawn <i>Penaeus monodon</i> | National seminar on "Biodiversity & Bioresources: A Fragile Balance" | St. Xavier's College, Palayamkottai on 25/02/2013 & 26/02/2013 | Presented |
| 43 | Anti-quorum sensing & biofilm inhibitory potential of soil associated bacteria against human bacterial pathogens | International symposium on "Changing Etiology of Emerging Infectious Diseases" | University of Madras, Chennai on 6/02/2013 | Presented |
| 44 | Comparative <i>Invitro</i> & <i>In vivo</i> study of three probiotic organisms, <i>Bifidobacterium sp.</i> , <i>Lactobacillus sp.</i> , <i>S.cerevisiae sp.</i> analyzing | National Level Seminar on "Trends in bioprospecting" | SVN College, Madurai on 2012 | Presented |
| 45 | Ecofriendly synthesis of silica nanoparticles & their biomedical applications. | National Level Seminar on "Trends in bioprospecting" | SVN College, Madurai on 2012 | Presented |
| 46 | Improvement of economic phytoremediation with heavy metal tolerant rhizosphere bacteria | National Level Seminar on "Trends in bioprospecting" | SVN College, Madurai on 2012 | Presented |
| 47 | Effect of the Silymaria on Lead - Induced Hepatotoxicity | Inter-Collegiate Student Seminar on "Prospects of Microbial Technology" | VHNSN College, Virudhunagar on 24/02/2012 | Participated and Presented |
| 48 | Silymarin protects against Cadmium - induced oxidative renal dysfunction in rats | Inter-Collegiate Student Seminar on "Prospects of Microbial Technology" | VHNSN College, Virudhunagar on 24/02/2012 | Participated and Presented |
| 49 | DPPH free radical scavenging activity and antimicrobial activity of medicinal plants <i>Eclipta prostrata</i> and <i>Andrographis paniculata</i> . | International Congress of Ethnopharmacology | Jadavpur University, Kolkata on 17/02/2012 to 19/02/2012 | Participated and Presented |
| 50 | Preliminary phytochemical and | International Congress | Jadavpur | Participated |

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| | anti-obesity activity of marine algae <i>grecilaria corticata</i> and <i>spirulina platensis</i> . | of Ethnopharmacology | University, Kolkata | and Presented |
| 51 | Impact of climatic change on marine algal biodiversity with reference to seasonal variations | National Seminar on "Cyclonic Changes and Its Impact on Marine Biodiversity" | VHNSN College, Virudhunagar on 09/02/2012 | Participated and Presented |
| 52 | Impact of climatic changes in infectious disease - malaria | National Seminar on "Cyclonic Changes and Its Impact on Marine Biodiversity" | VHNSN College, Virudhunagar on 09/02/2012 | Participated and Presented |
| 53 | Biological control of postharvest black rot disease in citrus fruits by microbial antagonism. | International Seminar on Microbes – Elixir of Life 28-29, October 2010. | Dr. MGR Janaki College of Arts and Science for Women, Chennai | Participated and Presented |
| 54 | Synthesis and Characterization of gold Nanoparticles produced by <i>Pseudomonas</i> | International Seminar on Microbes – Elixir of Life 28 October 2010. | Dr. MGR Arts and Science for Women, Chennai | Participated and Presented |
| 55 | Effect of environmental parameters on the Biodegradation of Crude oil film on seawater. | National Level Seminar on Pollution Hazards and Marine Fishery Resource Management | 25 & 26-10-2007, Fisheries College, Tuticorin | Participated and Presented |
| 56 | Bio-degradation of Crude oil film on the surface of seawater: the role of <i>Pseudomonas</i> sp., | National Level Seminar on Pollution Hazards and Marine Fishery Resource Management | 25 & 26-10-2007, Fisheries College, Tuticorin | Participated and Presented |
| 57 | Molecular identification of <i>Vibrio harveyi</i> isolated from prawn <i>penaeus monodon</i> in shrimp farm | National symposium on "Grow More Biotechnology for Human and Biosphere Development" | Sri Paramakalyani College, Alwarkurichi on 14 & 15/09/2006 | Presented |
| 58 | Microbial evaluation of carcinogenic compounds in cosmetics. | National symposium on "Grow More Biotechnology for Human and Biosphere Development" | Sri Paramakalyani College, Alwarkurichi on 14 15/09/2006 | Presented |
| 59 | Immune modulatory and antimicrobial activity of <i>Aloe vera</i> – an in vitro approach | National symon "Grow More Biotechnology for Human and Biosphere Development" | Sri Paramakalyani College, Alwarkurichi | Presented |
| 60 | Antibacterial activity of coastal & terrestrial herbal plant extracts against bacteria isolated from wound - An <i>in vitro</i> approach. | National Conference on Frontiers in biotechnology and Molecular Medicine | 17 th & 18 th Feb 2006 NICAS – Thuckalay | Presented |
| 61 | Phytochemical and antibacterial studies on <i>Rubia carditolia</i> against diabetic foot ulcer – An <i>in vitro</i> approach. | National Conference on Frontiers in biotechnology and Molecular Medicine | 17 th & 18 th Feb 2006 NICAS – Thuckalay | Presented |
| 62 | Assessment of enteric bacteria from environment and edible fishes in the Tsunami affected | International conference of Marine and Terrene ecology (ICMTE) | 17 – 19 th Jan. 2006. Jesuit Tsunami | Presented |

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|----|--|---|---|----------------------------------|
| | areas of Thoothukudi coast | | Services (JTS), St.Xaviers College, Palayamkottai | |
| 63 | Emergence and spread of Methicillin resistance nosocomial pathogens selected hospitals in Kadayanalur. | 5 th National level Biological congress on Biotechnology: A global perspective | 6 th – 7 th January 2006, MCAS, Rasipuram | Participated and Presented |
| 64 | <i>Pseudomonas fluorescense</i> –Nature’s effective tool in bio remediation of Crude oil. | 5 th National level Biological congress on Biotechnology: A global perspective | 6 th – 7 th January 2006, MCAS, Rasipuram | Participated and Presented |
| 65 | Studies on antibiotic effects of seaweeds on common human pathogens. | 5 th National level Biological congress on Biotechnology: A global perspective | 6 th – 7 th January 2006, MCAS, Rasipuram | Participated and Presented |
| 66 | Immunomodulatory and phytochemistry studies on <i>Nyctanthes arbor – tristis</i> . | 5 th National level Biological congress on Biotechnology: A global perspective | 6 th – 7 th January 2006, MCAS, Rasipuram | Participated and Presented |
| 67 | Carcinogenicity studies on cosmetics and its ingredients. | 5 th National level Biological congress on Biotechnology: A global perspective | 6 th – 7 th January 2006, MCAS, Rasipuram | Participated and Presented |
| 68 | Occurrence of MRSA in nosocomial samples. | 5 th National level Biological congress on Biotechnology: A global perspective | 6 th – 7 th January 2006, MCAS, Rasipuram | Participated and Presented |
| 69 | Phytochemical and antibacterial activity of selected medicinal plants against Diabetic foot ulcer microflora. | 5 th National level Biological congress on Biotechnology: A global perspective | 6 th – 7 th January 2006, MCAS, Rasipuram | Participated and Presented |
| 70 | Risk assessment of enteric pathogens from food products collected in and around Thoothukudi. | 5 th National level Biological congress on Biotechnology: A global perspective | 6 th – 7 th January 2006, MCAS, Rasipuram | Participated and Presented |
| 71 | Risk assessment of Salmonella species in poultry, and its products collected in and around Thoothukudi | National Symposium on “Challenges of human life in the new century Role of Biotechnologists” | Sep. 16 – 17, 2005. Sri Kaliswari College, Sivakasi | Presented |
| 72 | Bacteriological assessment of environmental and edible fishes in the tsunami affected area in Thoothukudi | National Seminar on “Technology and Management of Bioresources” | 21 and 22 March 2005. St.Xaviers College, Palayamkottai | Presented |
| 73 | Isolation of Methicillin Resistant | 4 th National level | Jan 28 th and 29 th | Participated |

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|----|---|---|---|----------------------------|
| | <i>Staphylococcus aureus</i> from Nosocomial infection | Biological Congress on Biotechnology – A Boom to Humanity | 2005. MCAS, Rasipuram | and Presented |
| 74 | Effect of commercial toothpaste against mouth microflora of human | National Symposium on “RECENT TRENDS IN BIOSCIENCE” | 27 th & 28 th Feb. 2004 Sri Paramakalyani College, Alwarkurichi | Presented |
| 75 | Comparison of activity of two herbal plant extracts against selective bacterial Pathogens | National level Biological congress on “Biome and Biosciences” | 9 th & 10 th Jan’2004. MCAS, Rasipuram | Participated and Presented |
| 76 | Comparative studies on selective coastal and terrestrial herbal plants crude Extracts against bacteria isolated from wound; an <i>in vitro</i> approach | Third National Conference on Siddha Medicine for all Ages | 6 & 7 December, 2003. at Courtallam | Participated and Presented |
| 77 | Pretreatment of sugar factory waste with microbes to enhance the yield of economically important plants | 40 th annual conference of Association of Microbiologists of India | 22 – 24/1/2000 at Bhubaneswar | Participated and Presented |
| 78 | Studies on mass production of bioinsecticide by <i>Metarrhizium arisopliae</i> var. <i>arisopliae</i> such as white grubs, cutworms and mosquitoes | 40 th annual conference of Association of Microbiologists of India | 22 – 24/1/2000 at Bhubaneswar | Presented |
| 79 | Production of mycotoxin is inhibited by sodium hydrochlorite sorbic acid | 40 th annual conference of AMI | 22 – 24/1/2000 at Bhubaneswar | Presented |
| 80 | Studies of antimicrobial substances from <i>Acalypha indica</i> , <i>Parthenium hysterophorous</i> , <i>Tridax procumbans</i> against <i>Bacillus</i> and <i>Staphylococcus</i> sp. | 40 th annual conference of Association of Microbiologists of India | 22 – 24/1/2000 at Bhubaneswar | Presented |

Books Published: 4

2020

1. ENVIRONMENTAL SCIENCES, Dr. P. Sundara Pandian, Dr. N. Prithivikumar, Dr. S. Venkatesan and **Dr. M.Kannan**. 2020, Virudhunagar Hindu Nadars’ Senthikumara Nadar College (Autonomous), Virudhunagar. ISBN : 978-81-942052-6-5.

2018

2. Green Synthesis of silver nanoparticles and its antibacterial effect, P.Prema, N.Alagumanikumar and **M.Kannan**. 2018 LAP Lambert Academic Publishing, Germany. ISBN: 978-613-9-81525-8

2016

3. Production of Natural Indigo from *Indigofera tinctoria*, **Kannan Marikani**, S Venkatesan, S. Abirami. 2016, LAP Lambert Academic Publishing, Germany. ISBN: 978-3-330-03963-6
4. Bioactivities of *Gracilaria corticata* and *Spirulina platensis*. **Kannan Marikani**,

Srinivasan Venkatesan, 2016, LAP Lambert Academic Publishing, Germany.
ISBN: 978-3-659-93923-5

Book chapters Published

2017

1. Biosynthesis, process optimization and characterization of Cadmium sulfide nanoparticles against wood degrading termite. Maniraj.A, Muthuram kumar.S, **Kannan.M** and Ganesan.R. Book Name: A treatise on recent advances in bioorganic and medical chemistry. Publisher: VHNSN College (Autonomous) Virudhunagar. February 2017. ISBN: 978-93-8173-63-0
2. **Silver iodide (AgI) nanoparticles as an anti-biofilm agent. A case study on gram-negative biofilm forming bacteria.** M. Kannan, K. Rajarathinam, S. Venkatesan, B. Dheeba, A. Maniraj. **Nanostructures in therapeutic medicine. 2017 Elsevier Radarweg 29, PO Box 211, 1000 AE Amsterdam, Netherlands. ISBN: 978-0-323-46152-8.**

2014

3. Cultivation & Phytochemical analysis of wild mushrooms from Tuticorin District. M. Subbulakshmi, M. Kannan. 2014. Global opportunities for recent developments in Science & Technology, ISBN - 978-93-82323-26-6, B 195-B198.

2013

4. Invitro Antioxidant potential and Phytochemical analysis of *Camellia sinensis*. K.Siva, S. Venkatesan, M. Kannan, K. Kirithika. 6/2/2013. Proceedings of Symposium-Changing etiology of emerging Infectious diseases.

2007

5. Bio-degradation of Crude oil film on the surface of seawater: the role of *Pseudomonas* sp., M. Kannan, A.J.A. Ranjit Singh, M.Narayanan. 26/10/2007. Proceedings of National Level Seminar on Pollution Hazards and Marine Fishery Resource Management. Fisheries College, Tuticorin.

2005

6. Bacteriological assessment of the environment and Edible fish captured in the tsunami affected Area in and around Thoothukudi coastal system. M. Kannan, N. Muthuselvan, A.J.A. Ranjit Singh, T.T. Ajith kumar, M.Narayanan. Wave in Bay ENVIS Publication Series 3/2005, p 120-124.

Research Publications:

Research Publications in International Journals: - 44

2021

1. Susithra, K., Narayanan, K.B., Ramesh, U., Raja, C.E., Premkumar, G., Varatharaju, G., Vijayakumar, A., Kannan, M., Rajarathinam, K., **2021**. Statistical Optimization of Poly- β -Hydroxybutyrate Biosynthesis Using the Spent Mushroom Substrate by *Bacillus tequilensis* PSR-2. Waste and Biomass

Valorization 1–17. <https://doi.org/10.1007/s12649-021-01460-8>.

2. Abirami S, Edwin Raj B Soundarya T, Kannan M, Sugapriya Dhanasekaran, Noura Al-Dayyan, Arif Ahmed Mohammed. **Exploring Antifungal Activities of Acetone extract of Selected Indian Medicinal Plants against Human Dermal Fungal Pathogens.** *Saudi Journal of Biological Sciences*. Volume 28, Issue 4, April 2021, Pages 2180-2187. **Impact Factor 2.82**
3. M. Subbulakshmi, Sugapriya Dhanasekaran, S. Abirami, R. Palaniappan, M. Kannan, Divya Venugopal. **Phylogenetic Analysis and Protective Effects of Thymol and its Chromatographic Fractions from a Novel Wild Mushroom in Combating Oxidative Stress.** *Food Science and Human Wellness* 10 (2021) 452-459. **Impact Factor 2.45**

2020

4. Abirami Sasi, Nagarajan D, Kannan M, Sugapriya Dhanasekaran Noura Al-Dayyan, Divya Venugopal. **Identification and characterization of a Newly Isolated Chitinase Producing strain Bacillus licheniformis SSCL-10 for chitin degradation.** *Archaea-an International Microbiological Journal*, (2020) Volume 2020, Article ID 8844811. <https://doi.org/10.1155/2020/8844811> **Impact Factor 3.379**
5. Kannan Marikani, Abirami Sasi, Venkatesan Srinivasan, Sugapriya Dhanasekaran, Noura-Al Dayyan, Divya Venugopal. **A Synergism of Eco-Friendly Dyeing of Cotton Fabric and Therapeutic benefits of Seed Extract.** *International Journal of Life Science and Pharma Research*, (2020) Volume 10, Issue 5, Pages: 207-214. <https://www.ijlpr.com/abstract1.php?aid=725> **Impact Factor 0.82**
6. Susithra K, Ramesh U, Kannan M, Varatharaju G, Premkumar G, Rajarathinam K. Polyhydroxybutyrate Production Using Groundnut Shell as Substrate by *Bacillus circulans* (MTCC 8167). *Proceedings International Platinum Open Access Journal*, Volume 2, Issue 1, 2020,95 | ISSN 2668-6384.

2018

7. Premkumar G, Muthuramkumar S, Kannan M, Varatharaju G and Rajarathinam K, Cellulase and Xylanase Production by *Pleurotus* sp. on a Mixed Substrate System. *J Biotechnol. Biomater.* 2018, 8:2. ISSN: 2155-952X.
8. M.Narmatha Selvakumari, J.Shifa Vanmathi, M.Kannan, L.Jeyaprabha and K.Chairman Antibacterial Activity of Commercial Antibiotics and Zinc Oxide Nanoparticles Against Selected UTI Pathogens – A Comparative Study. *International Journal of Creative Research Thoughts (IJCRT)*, Volume 6, Issue 2 April 2018 | ISSN: 2320-2882.

2017

9. J. Neena Priya, M. Kannan. "Effect of carbonic anhydrase and urease on bacterial calcium carbonate precipitation". *International Journal of Pharma and Biosciences*, July 2017, 8(3): (B) 609-614 ISSN 0975-6299

10. V. Nithyakalyani and M. Kannan. Bio efficacy evaluation of liquid inoculants and antagonistic Activity of rhizobia against fungal pathogens. *International Journal of Pharma and Biosciences*, July 2017, 8(3): (B) 707-713. ISSN 0975-6299
11. Subbulakshmi M, Kannan M. Studies on the biodiversity, Conservation, Bioactive compounds Identification from Selective wild macro fungi collected from western Ghats of Tirunelveli Region, Tamilnadu, India, *World Journal of Pharmaceutical Research*,6(16) 2017:834-858. ISSN 2277-7105
12. Maniraj A., G. Premkumar, S. Venkatesan, S. Muthuram Kumar and Kannan M. 2017. Synthesis of Silver Nanoparticles (Ag-NPs) by *Ficus benghalensis* Plant Extract and their Applications against Methicillin Resistant *Staphylococcus aureus* (MRSA). *Int.J.Curr.Res.Aca.Rev. Special Issue-4*: 87-96. ISSN - 2347 - 3215.
13. Susithra K, Ramesh U, Kannan M, Ganesan R, Rajarathinam K. Screening and characterisation of bioplastics producing bacteria isolated from oil contaminated soils of Virudhunagar , Tamil Nadu , India. *Pharm Biol Eval.* 2017;4(1):21-27. (0.5) ISSN - 2394 - 0859.
14. Optimization and Characterization of Green Synthesized Silver Nanoparticles and Its Inhibitory Activity Against Biofilm Forming Bacterial Pathogens. A.Maniraj, S.Muthuram Kumar, M. Kannan, K. Rajarathinam, and A. Pushparaj. *Journal of Advanced Applied Scientific Research*, JOAASR-Vol-1-9-March-2017: 97- 106. ISSN: 2454-3225
15. Subbulakshmi M, Kannan M, Venketesan S. Bio Diversiity and Cultivation Parameters, Mycochemical Analysis of Wild Mushrooms Collected from Western Ghats of Tamilnadu, India. *J Adv Microbiol.* 2017;2(2). doi:10.9734/JAMB/2017/30917. ISSN: 2456-7116

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16. Nithyakalyani V, Kannan M, Anandan R. Insecticide and Salt Tolerance of Plant Growth Promoting Root Nodule Bacteria. *Int J Curr Microbiol Appl Sci.* 2016;5(4):942-956. ISSN: 2319-7706
17. Priya JN, Kannan M, Priyanka P, Mary SV. A Study on Characterization of EPS and Media Optimization for Bacterial Calcium Carbonate Precipitation. *Int J Curr Microbiol Appl Sci.* 2016;5(4):590-595. ISSN: 2319-7706.
18. S.Abirami, K. Yogalakshmi, A.Selva Raja Puspa and M.Kannan. Screening and Identification of Chitin Degrading Bacteria from Shrimp shell waste dumping soil environment and its media optimization for chitinase enzyme production. *World Journal of Pharmacy and Pharmaceutical Sciences SJIF Impact Factor 6.041 Volume 5, Issue 11, 743-757.*
19. Subbulakshmi M, Kannan M. Cultivation and phytochemical analysis of wild mushrooms *Daldinia concentrica* and *Pheolus schweinitzii* from Tamilnadu , India. *Eur J Exp Biol.* 2016;6(3):46-54. ISSN: 2248-9215

20. Rajivgandhi G, Vijayan R, Kannan M, Santhanakrishnan M, Manoharan N. Molecular characterization and antibacterial effect of endophytic actinomycetes *Nocardioopsis* sp. GRG1 (KT235640) from brown algae against MDR strains of uropathogens. *Bioact Mater.* 2016;1(2):140-150. doi:10.1016/J.Bioactmat.2016.11.002. ISSN: 2452-199X. Impact Factor 14.82

2015

21. Isolation, screening of keratinolytic bacteria from feather dumping soil in and around Cuddalore and Villupuram, Tamil Nadu. V. Sekar, M. Kannan, R. Ganesan, B. Dheeba, N. Sivakumar, K. Kannan. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences. Manuscript Number: NASB-D-14-00289. 11/2/2015. (Impact factor 0.396).ISSN: 0369-8211
22. Assessment of dyeing properties and quality parameters of natural dye extracted from *Lawsonia inermis*. **Kannan Marikani**, Uma Sangareswari Kannan, Rajarathinam Kanniappan. Pelagia Research Library European Journal of Experimental Biology, 2015, 5(7):62-70. ISSN: 2248 -9215. (Impact factor 0.645).

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23. Biosynthesis and characterization of intracellular TiO₂ nanoparticles by *Lactobacillus* sp. and its potential application in decolourization of methyl orange dyes. **M. Kannan**, K. Rajarathinam, B. Dheeba, K. Nagheswari, K. Kannan. International journal of pharmacy and pharmaceutical sciences. Vol 7, issue 2, 3/12/2014, ISSN: 0975-1491. (Impact factor 0.55).
24. Antibacterial and antiobesity activities of marine algae *Gracilaria corticata* and *Spirulina platensis*. **M. Kannan**, B. Dheeba, K. Nageshwari, K. Kannan, S. Venkatesan. International Journal of Pharmacy and Pharmaceutical Sciences, ISSN- 0975-1491 Vol 6, Issue 6, 28/5/2014.
25. Comparison of Herbicidal Activity of *Datura metal* and *Nerium oleander* on the Weed, *Parthenium hysterophorus* in Green Gram Crop. B. Dheeba, P. Sampathkumar, K. Kannan, M. Kannan and T. Tamizharasi, Natl. Acad. Sci. Lett. 11/5/2014. 37(3):269-274. (Impact factor 0.519). ISSN: 0250-541X
26. Isolation and identification of biofilm forming uropathogens from urinary tract infection and its antimicrobial susceptibility pattern. G. Rajivgandhi, J. Vijayarani, **M. Kannan**, A. Murugan, R. Vijayan, N. Manoharan. International journal of advanced life sciences, ISSN: 2277-758X Vol7, Issue 2, 23/4/2014.
27. Efficacy of Neem (*Azadirachta indica*) and Tulsi (*Ocimum sanctum*) leaf extracts against early blight of tomato. B. Dheeba, R. Niranjana, P. Sampathkumar, K. Kannan, M. Kannan. Natl. Acad. Sci. Lett. 25/3/2014. 85(1): 327-336. (Impact factor 0.519).
28. Phytochemical screening and antioxidant activity of marine algae *Gracilaria corticata* and *Spirulina platensis*. **M. Kannan**, A. Pushparaj, B. Dheeba, K.

Nageshwari, K. Kannan. Journal of Chemical and pharmaceutical research. 2014, 6(11): 312-318. ISSN: 0975-7384. CODEN(USA) : JCPRC5.

29. Quality analysis and prevention of aflatoxin contamination in *Capsicum annum* by selective spices extract, **M. Kannan**, K. Rajarathinam, B. Dheeba and K. Kannan Journal of Chemical and Pharmaceutical Research, 2014, 6(10):81-92. ISSN : 0975-7384, CODEN(USA) : JCPRC5.
30. An antimicrobial activity of the brown seaweed padina *Tetrastromatica* extract in different concentration against human pathogenic bacteria. A. Pushparaj, D. Rajan, S.J. Balamurugan, R. Murugesan, **M. Kannan**, R.S. Raubbin. International journal of Applied Biology and Pharmaceutical Technology, 5(1), 135–138. Jan - Mar 2014. ISSN: 0976-4550.

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31. Potential Hepatoprotective Effect of Solanum xanthocarpum Against CCl₄ Induced Hepatotoxicity in Albino Rats. B. Dheeba, P. Sampathkumar, S. Vijay, K. Kannan, **M. Kannan**. 2014. Asian Journal of Chemistry, 26(1), 230–232. doi:26/12/2013; AJC-14511. ISSN 0970 - 7077 / Impact Factor 0.25.

2012

32. **Hepatoprotective and Curative Effect of Eclipta Prostrata On CCl₄ Induced Hepatotoxicity in Albino Rats.** B. Dheeba, E. Vaishnavi, P. Sampathkumar, **M. Kannan**. Biosci. Biotechnol. Res. Asia. 9(1), Jun 2012, 309–314. ISSN: 0973-1245.
33. **Therapeutic Efficacy of Spirulina In the Treatment of Formaldehyde Induced Rheumatoid Arthritis in Swiss Albino Mice.** B. Dheeba, P. Sampathkumar, **M. Kannan**, E. Vaishnavi, Maragatham. Biosci. Biotechnol. Res. ASIA. 9(1). Jun 2012. 321–326. ISSN: 0973-1245.
34. Antidiabetic and antihyperlipidemic activities of *Asparagus racemosus* in alloxan induced diabetic rats. B. Dheeba, P. Sampath Kumar, **M. Kannan**, K. Saravana. Journal of pharmacy research. 19/4/2012, 5(5), 2469-2472. ISSN: 0974-6943.
35. Phytochemical, antibacterial and antioxidant studies on medicinal plant *Solanum toroum*. **M. Kannan**, B. Dheeba, S. Gurudevi, A.J.A. Ranjit Singh. Journal of pharmacy research. 12/4/2012, 5(5), 2418-2421. ISSN: 0974-6943.
36. **Extracellular Biosynthesis of Iron Oxide Nanoparticles by *Bacillus subtilis* Strains Isolated from Rhizosphere Soil.** P. Alagu Sundaram, Robin Augustine, **M. Kannan**. Biotechnology and Bioprocess Engineering 17: 835-840 6/4/2012. ISSN: 1226-8372 (print) ISSN: 1976-3816 (electronic)/Impact Factor 1.277.

2011

37. Hypoglycemic and antihyperlipidemic activity of leaves and stems of *Alternanthera philoxeroides* in alloxan induced diabetes. P. Sampath Kumar, B. Dheeba, S. Stalin, M Maragatham, **M.Kannan**. Journal of pharmacy research, Vol 4, No 6 (2011). ISSN: 0974-6943.

2010

38. Production and Characterization of Mushroom Chitosan under Solid-State Fermentation Conditions. **Marikani Kannan**, Maliga Nesakumari, K. Rajarathinam, A.J.A. Ranjit Singh. 2010. Advance biological Research, Vol 4 - 1. ISSN: 1992-6943.
39. Control of Fish Bacterial Pathogens, by Antagonistic Marine Actinomycetes Isolated from Gulf of Mannar Coast. R. Saravanakumar, H. Syed Moomeen, J. Ronald, **M. Kannan**, 2010. World Journal of Fish and Marine Sciences, Volume 2 - 4. ISSN: 2078-4589.
40. An Immuno-Pharmacological Investigation of Indian Medicinal Plant *Nyctanthes arbor-tristis* Linn, **Marikani Kannan**, A.J.A. Ranjit Singh. 2010. World Applied Science Journal, Vol 11- 5. ISSN: 1818-4952 / IF 0.234.
41. **Phytochemical studies and evaluation of antioxidant potential of various extracts of *aegle marmelos* bark.** B. Dheebea, P. Sampathkumar, R.R. Sathiya Priya, **M.Kannan**. 2010. Pharmacology online 3: 831-839. ISSN: 1827 - 8620.

2009

42. Phytochemistry and Ethanopharmacological Studies on *Rubia cordifolia* Linn. (Rubiaceae). **M.Kannan**, A.J.A. Ranjit Singh, M.Narayanan. 2009. Ethnobotanical Leaflets 13: 338-342. ISSN 1948-3570.
43. **Phytochemistry and Immunopharmacological Investigation of *Rubia Cordifolia* Linn. (Rubiaceae).** Marikani Kannan, Ranjit Singh, Narayanan. Pharmacology online 3: 653-662 (2009). ISSN: 1827 - 8620.

2008

44. **Methicillin resistant *Staphylococcus aureus* (MRSA) from nosocomial samples in a primary care hospital at Kadayanallur.** M.Kannan, A.J.A. Ranjit Singh, M. Narayanan. 2008. Asian Jr. of Microbiol. Biotech. Env. Sc. 10 (1) 87-90. ISSN: 0972-3005.

2007

45. Studies on immuno-bioactivities of *Nyctanthes arbortristis* (Oleaceae). **M. Kannan**, A.J.A. Ranjit Singh, T.T. Ajith Kumar, P. Jegatheswari, S.Subburayalu. 2007. African Journal of Microbiology Research, Vol. 1 (6) pp. 088-091. ISSN 1996-0808.

Research Publications in National Journals : 18

2019

1. A. Maniraj, M. Kannan, K. Rajarathinam, S. Vivekanandhan, S. Muthuramkumar. **Green Synthesis of Silver Nanoparticles and Their Effective Utilization in Fabricating Functional Surface for Antibacterial Activity Against Multi-Drug Resistant *Proteus mirabilis*.** *Journal of Cluster Science Including Nanoclusters and Nanoparticles.*(2019) ISSN 1040-7278, Volume 30, Number 6, J Clust Sci (2019) 30:1403-1414, DOI 10.1007/s10876-019-01582-z.

2. S. Abirami and M. Kannan. **Antibacterial activity of selected spices against multi - drug resistant urinary tract microflora.** *Journal of Emerging Technologies and Innovative Research (JETIR).* (2019), Volume 6, Issue 2.

2017

3. Characterization and application of TiO₂ nanoparticles synthesised by *Fusarium oxysporum*. **M. Kannan**, S.Venkatesan, R.Ganesan, B.Dheeba and B.Ramakrishnan, *Journal of Scientific Transactions in Environment and Technovation*, 2017, 10 (4): 185 – 190. ISSN **2393 – 9249**.

2016

4. Preliminary study on the carcinogenicity and phytotoxicity of textile direct cotton dyes and their bio-degradation using selective bacteria. Hemarana.K, Michael Babu.M, Jaya Shree.K.V, **Kannan.M.** *Multidisciplinary research journal of VVV College.* March 2016; volume III; number 2; 681-691; ISSN: 2347-3967.
5. Antioxidation efficacy of phycocyanin and B- carotene extracted and purified in from spirulina platensis Uma Sangareswari K, Monisimiya.J, Maniraj.A and **Kannan.M.** *Multidisciplinary research journal of VVV College.* March 2016; volume III; number 2; 738-745; ISSN: 2347-3967.

2015

6. Effect of Gibberellic Acid on Black Gram (*Vigna mungo*) Irrigated with Different Levels of Saline Water. B. Dheeba, S. Selvakumar, **M. Kannan**, K. Kannan. *Research Journal of Pharmaceutical, Biological and Chemical Sciences.* ISSN: **0975-8585**. November - December 2015 RJPBCS 6(6) Page No. 709. (Impact factor 0.35).
7. Biobased approach for the synthesis, characterization, optimization and application of silica nanoparticles by fungus *Fusarium oxysporum*. **M. Kannan**, K. Uma Sangareswari, P. Suganya, R. Ganesan, K. Rajarathinam. 11/12/2015. *Pharmaceutical And Biological Evaluations.* December 2015; vol. 2 (Issue 6): 223-233. ISSN **2394-0859**.
8. A Study on Characterization, Growth Response and Nitrogen Fixing Efficacy of Fungicide Resistant *Rhizobium*. V.Nithyakalyani, **M.Kannan**, K. Lakshmi. *Asian Journal of Multidisciplinary Studies.* ISSN: **2321-8819 (Online) 2348-7186 (Print)** (Impact Factor: 0.92) Volume 3, Issue 11, Nov. 2015.
9. Detection of Calcium carbonate precipitation by soil bacteria and its Infrared spectroscopic analysis. J. Neena priya, **M. Kannan**, Shahanaz begum, S. Chitra. *Asian Journal of Multidisciplinary Studies.* ISSN: **2321-8819 (Online) 2348-7186 (Print)** (Impact Factor: 0.92). Volume 3, Issue 11, Nov. 2015.
10. Efficacy of poultry feather decomposition by native isolates of Bacillus sp. and it's impact on mineralization. Sekar V, **Kannan M**, Raju M, Sivakumar N, Dheeba B. *Research journal of pharmaceutical, biological and chemical sciences.* Jan-Feb 2015, ISSN: **0975-8585**. 6(1). 852. (Impact factor 0.35).

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11. Phytochemical analysis of selected plant leaves consumed by the folivory bats in Tirunelveli. A. Krishnarathi, S. Suthakar Issac, **M. Kannan**. Journal of Environmental and applied bio research. 22/8/2014, vol 02, no. 01, pp. 14-18. **ISSN:2319-8745**. (Impact factor 0.364).
12. Preliminary bioactive compounds screening and antibacterial activity of methanolic extract of *Hibiscus rosasinensis* against selected skin pathogens. K. Hemarana, K.V. Jeyashree, M. Michael Babu, **M. Kannan**. Research journal of pharmaceutical, biological and chemical sciences. Mar-Apr 2014, **ISSN: 0975-8585**. 5(2). Page no. 1210.

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13. Substrate optimization and characterization of protease enzyme production by *Aspergillus niger*. **M.Kannan**, M.Susila, S.Venkatesan, K.Rajarathinam, A.J.A.Ranjit Singh. 2013. College sadana, Vol - 5 (1) 632 - 637. **ISSN: 0974-6838**.

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2011

15. Characterisation of *Candida albicans* Biofilm Formed on Prosthetic Heart Valves. A. Balasubramanian, K. Chairman, **M. Kannan**, A.J.A. Ranjit Singh. Journal of Pharmacy and Allied Health Sciences. Vol 1. 2011. **ISSN: 2090-2170**.
16. Studies on Lactobacillus sp., the most beneficial microorganisms as probiotic and as corrosion inhibitor, S.Venkatesan, S.Nihamath beebijan, M.Kirithika and **M.Kannan** 2011. College Sadhana, Vol - 3 (2), 125-130. **ISSN: 0974-6838**.

2009

17. Ecofriendly Biosurfactant production, Characterization, Quantification and its role in environment. S. Venkatesan, **M.Kannan**, M.Kirithika. 2009. College Sadana, Vol 2, No 1, 40-45. **ISSN: 0974-6838**.

2008

18. Bactericidal Studies on the Crude Extracts of *Rubia cordifolia* L. **M.Kannan**, S. Venkatesan, A.J.A. Ranjit Singh. 2008. College Sadhana, Vol - 1, 77 - 79. **ISSN: 0974-6838**.

Invited Lectures Delivered:

| S.No. | Date | Organization | Topic |
|--------------|---------------------------------------|--|---|
| 1. | 21/09/2022 | ETHIRAJ COLLEGE FOR WOMEN (AUTONOMOUS) Chennai, DEPARTMENT OF MICROBIOLOGY | National webinar on "Microbes in monuments" |
| 2 | 29.10.2020 | PG and Research Department of Microbiology, Kamaraj College, Thoothukudi | E. Lecturers on Online Basic tools for Research Documentation |
| 3 | 1.8.2019 | V.H.N.S.N College (Autonomous), Virudhunagar. | Health and Hygiene |
| 4 | 29.7.2019 | Sadakathullah Appa College, Tirunelveli | Food Pollution, Risk Assessment and Management |
| 5 | 16.2.2019 | Kamaraj College, Thoothukudi. | Hands on workshop in open source Reference Management tool |
| 6 | 14.8.2018 | V.V.Vanniaperumal College for Women (Autonomous), Virudhunagar. | "Natural Dyes- Bacterial Enhanced Natural Indigo Production" |
| 7 | 23.8.2017 | S. Vellaichamy Nadar College, Madurai. | Natural Pigments |
| 8 | 8 th September 2017 | SALIS and Department of Library, VHNSN College, Virudhunagar. | Mendeley - Reference Management Tools |
| 9 | 10 th september 2016 | V.V.Vanniaperumal College for Women (Autonomous), Virudhunagar. | "Health and Hygiene" |
| 10 | 16.12.2016 and 17.12.2016 | VHNSN College, Virudhunagar | Recent tool for reference management |
| 11 | 16.12.2016 | Department of Commerce (SF), VHNSN College, Virudhunagar | Mendeley for Reference Preparation |
| 12 | 23/07/201 6 | Department of Physics, VHNSN College, Virudhunagar | Literatures Survey |
| 13 | 11/12/201 5 | Department of Commerce (SF), VHNSN College, Virudhunagar | Mendeley for Reference Preparation |
| 14 | 25/02/15 | Department of Biotechnology, V.V.V.College for Women, Virudhunagar | Nanobiotechnology |

| | | | |
|----|----------------|---|---|
| 15 | 5/1/2015 | Department of Commerce (SF), VHNSN College, Virudhunagar | Data mining & reference management |
| 16 | 13/8/2014 | Department of Microbiology, V.V.V.College for Women, Virudhunagar | Probiotics and its applications |
| 17 | 20/1/2014 | Department of Microbiology, PKN Arts and Science college, Tirumangalam. | Career opportunities |
| 18 | 1/5/2013 | Young Student Scientist Programme-2012, TNSCST, Chennai & VHNSN College, Virudhunagar | Environmental Pollution Resource Person |
| 19 | 21/5/2012 | Young Student Scientist Programme-2012, TNSCST, Chennai & VHNSN College, Virudhunagar | Environmental Pollution Resource Person |
| 20 | 2/3/2012 | Nano science Association Meet Sarah Tucker College, Tirunelveli | Nanotechnology in Modern medicine |
| 21 | 28/12/201 1 | Department of Chemistry VHNSN College, Virudhunagar. | Health and Hygienic |
| 22 | 5/9/2011 | Department of Food Processing and Quality control, V.V.V.College for Women, Virudhunagar | Genetically Modified Foods |
| 23 | 28/9/2010 | Nadar Saraswathi College of Arts and Science, Theni - 625 531 | Immunization - A Global Scenario |
| 24 | 9/9/2010 | Recent Trends in Biosciences, Two day state level seminar. Dept. of Biochemistry & Bioinformatics, Dr.MGR Janaki College, Chennai. | PSYCHOIMMUNOLOGY -an emotion to immunity |
| 25 | 05/04/10 | Microbial Meet-2010. Kamaraj College, Thoothukudi | PROBIOTICS AS AN IMMUNOMODULATOR |
| 26 | 25/01/10 | Zoology Association Meet Sarah Tucker College, Tirunelveli | Fundamentals of Nanobiotechnology |
| 27 | 12/3/2008 | State Level Seminar in Recent Trends in Biological Sciences, Thiruvalluvar Arts and Science College, Kurinjipadi | Nanotechnology and Global Thirst |
| 28 | 23/2/2008 | Microbial Meet-2008. Kamaraj College, Thoothukudi | Interference of phytochemicals with Immune system |
| 29 | 8/02/2006 | Bio Mic - 06, St. Mary's College, Thoothukudi. | Architecture of Immunology and Stem cell technology |

| | | | |
|----|-----------|---|----------------------|
| 30 | 9/01/2006 | Department of MicroBiology V.P.M. Arts and Science College, Krishnan kovil. | Stem Cell Technology |
|----|-----------|---|----------------------|

Microbial Sequences Submitted in NCBI Gene Bank – 20

| S.No | Date of Submission | Gene Bank Accession No. | Strain ID | Organism Name |
|-------------|---------------------------|--------------------------------|------------------|-----------------------------------|
| 1 | 31/12/2016 | KY063593 | SUB2051105 | <i>Bacillus licheniformis</i> |
| 2 | 18/08/2016 | KX692287 | JNP01 | <i>Pseudomonas aeruginosa</i> |
| 3 | 02/08/2016 | KX611461 | KX611461 | <i>Rhizobium leguminosarum</i> |
| 4 | 15/06/2015 | KT153616 | KT153616 | <i>Enterobacter ludwigii</i> |
| 5 | 15/06/2015 | KT153615 | KT153615 | <i>Pseudomonas aeruginosa</i> |
| 6 | 15/06/2015 | KT153613 | KT153613 | <i>Bacillus licheniformis</i> |
| 7 | 15/06/2015 | KT153617 | KT153617 | <i>Pseudomonas aeruginosa</i> |
| 8 | 15/06/2015 | KT153614 | KT153614 | <i>Fusarium solani</i> |
| 9 | 16/09/2014 | KM555285 | FDS05 | <i>Bacillus megaterium</i> |
| 10 | 16/09/2014 | KM555284 | FDS37 | <i>Pseudomonas aeruginosa</i> |
| 11 | 16/09/2014 | KM555283 | FDS17 | <i>Staphylococcus aureus.</i> |
| 12 | 16/09/2014 | KM555282 | FDS25 | <i>Paenibacillus pasadenensis</i> |
| 13 | 16/09/2014 | KM555281 | FDS15 | <i>Bacillus subtilis</i> |
| 14 | 16/09/2014 | KM555280 | FDS07 | <i>Bacillus subtilis</i> |
| 15 | 16/09/2014 | KM555279 | FDS03 | <i>Bacillus licheniformis</i> |
| 16 | 16/09/2014 | KM555278 | FDS11 | <i>Bacillus foraminis.</i> |
| 17 | 16/09/2014 | KM555277 | FDS27 | <i>Bacillus cereus</i> |
| 18 | 02/12/2012 | JX857538 | SPKCZOOPA1 | <i>Pseudomonas aeruginosa</i> |
| 19 | 02/12/2012 | JX857537 | SPKCZOOPM1 | <i>Proteus mirabilis</i> |
| 20 | 21/07/2011 | JN378725 | MKVHNSNMRSA1 | <i>Staphylococcus aureus</i> |

Resource Person

Acted as Resource Persons – National level

2020

- **Resurse person** in 3 Day-Online National level Student Skill Development Program on Students Skill Development and Smart Learning V.H.N.S.N College (Autonomous), Virudhunagar and Annamalai University, Annamalainagar topic Research Techniques for Bioscience careers on 31/07/2020

2019

- **Resurse person** in One Day FDP in Sri Sarada College for Women, Tirunelveli. Faculty Development Programme on Quality Enhancement and Sustenance in Higher Education on 11/06/2019
- **Resurse person** in One Day FDP Organised by IQAC, V.H.N.S.N College (Autonomous), Virudhunagar. Training to develop video lecture through screen castifier software on 09/05/2019.
- **Resource person** in the “Creation of Scientific Awareness” supported by Tamil Nadu state council for science and technology, Chennai, Organized by Tirukoilur College of Arts and Science, Tirukkoilur. held on Feb 13-15, 2019.
- **Resource Person** in the YSSP -2018 Programme Conducted by V.H.N.S.N. College (Autonomous), Virudhunagar & Catalysed and supported by TNSCST, Chennai from 23.12.2018 to 06.01.2019.

2018

- **Chairperson** in the National Seminar on “Challenges and Advances in Microbiology (CAM -2018)” held on 1st & 2nd February 2018 organized by the Department of Microbiology, Faculty of science, Annamalai University, Tamil Nadu.
- **Resurse person** in One Day FDP IQAC -NAAC Sponsored (under UGC Autonomous Grant) at VHNSN College, Virudhunagar. Hands on Training Programme in Reference Management Tools for Research Scholars on 09/03/2018

- **Resource Person** in conducting practicals in the INSPIRE Internship Science Camp - 2018, Sponsored by Department of Science and Technology (DST), Government of India organised by V.H.N.S.N College (Autonomous), Virudhunagar from 01.08.2018 to 05.08.2018.
- **Resource Person** on 23 & 24.01.2018, and delivered the lecture about “Mushroom cultivation” organized by Tamil Nadu State Council for Science and Technology Government of Tamil Nadu Directorate of Technical education campus and Saralal thakkar College (Autonomous), Tirunelveli.

2017

- **Resource Person** in the One Day seminar on “ Research publication : writing research papers, citation analysis and plagiarism” organized by the Central Library, V.H.N.S.N College (Autonomous), Virudhunagar on 8th September, 2017.
- **Chairperson** for paper presentation in National Seminar on Frontiers in Biomimicry Medicine (FBM 2017) on 6th October 2017, Thiruvalluvar Arts and Science College, Kurinjipadi.

2016

- Chaired as a Judge in the Intercollegiate Meet held at Department of Microbiology, V.H.N.S.N College (Autonomous) on 15th September, 2016.
- **Chairperson of “Eliminating student’ inhibition and inspiring their intuition through the Enrichment Programme on 11.4.2016 to 20.04.2016, Organised by the Alumni of esteemed institution of V.H.N.S.N. College, Virudhunagar.**

2015

- **Resource Person** for Young Student Scientist Programme (YSSP- 2015) 4 to 18 May 2015. Conducted by V.H.N.S.N College (Autonomous), Virudhunagar. (Sponsored by TNSCST, Chennai).

2014

- **Chairperson** for paper presentation in 12th IAAM conference on “Global trends & challenges in Biosciences” on 5 & 6/12/2014. at Dr. MGR Janaki College of Arts and Science for Women, Chennai.

Board of Studies Member

- **Subject Expert in** Biotechnology Board of Studies, External Expert, V.V.V College for women (Autonomous), Virudhunagar. (2018-2021)
- **Subject Expert in** B.Voc. Environmental Board of Studies, Virudhunagar Hindu Nadars' Senthikumara Nadar College (Autonomous). Virudhunagar. (2017-2019)
- **Subject Expert in** Nanotechnology Board of Studies, External Expert, Sarah tucker College, Tirunelveli. (2017-19)
- **Subject Expert in** Microbiology Board of Studies, External Expert, Manonmaniam Sundaranar University, Tirunelveli. (2016-18)
- **University Nominee** Microbiology Board of Studies, St. Mary's College (Autonomous), Thoothukudi. (2016-18)
- **University Nominee** Microbiology Board of Studies, Hajee Karutha Rowther Howdia College (Autonomous), Uthamapalayam. (2013-16)
- **University Nominee** PG Biotechnology Board of Studies, Vivekanandha College of Arts and Science for Women (Autonomous), Namakkal. (2013-15)
- **Member** Microbiology Board of Studies, B.Voc. programme, Environmental science and value education Board of studies, VHNSN College (Autonomous), Virudhunagar (2012-16)
- **Member** Microbiology Board of Studies, St. Mary's College (Autonomous), Thoothukudi. (2012-16)
- **Member** Microbiology Board of Studies, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi. (2013-16)
- **Member** Microbiology Board of Studies, Thassim Beevi Abdul Kader College for Women (Autonomous), Kilakarai. (2013-15)
- **Member** Microbiology Board of Studies, the Standard Fireworks Rajaratnam College for Women (Autonomous), Sivakasi. (2011-14)

Honours Achieved

- ❖ **BEST TEACHER AWARD** (2013-2014) issued by V.H.N.S.N.College (Autonomous), Virudhunagar.

- ❖ **GUINNESS WORLD RECORD ATTEMPT** on “The Largest Recycling Lesson” conducted by Virudhunagar Toastmasters Club on January 30, 2018.

Courses completed:

- ❑ completed “Genius” Screencasty course on 14.4.20
- ❑ completed “Master the Screencost” Screencasty course on 12.4.20
- ❑ Participating in UGC- Sponsored- Refresher Course in Zoology Conducted by UGC- Human Resource Development Centre, Bharathiar University held from 20.06.19 to 03.07.19.
- ❑ Certificate of completion one week online Certificate course in Digital Teaching Techniques organised by ICT Academy from 29 june 2020 to 4 july 2020.

POSITIONS HELD

- **Coordinator** Senthil E Studio VHNSN College (Autonomous), Virudhunagar.
- **Member** IQAC- VHNSN College (Autonomous), Virudhunagar.
- **NODAL OFFICER** for UGC Sponsored B.Voc. Degree programme on Environmental assessment and remediation - 2015-2016.
- **Chairman** M.Phil. Microbiology, VHNSN College (Autonomous), Virudhunagar (2014 - 2016).
- **Life Member in ASSOCIATION OF MICROBIOLOGISTS OF INDIA**
- **Reviewer** in INDIAN JOURNAL OF BIOTECHNOLOGY
- **Reviewer** in NISCAIR JOURNALS
- **Reviewer** in AFRICAN JOURNAL OF MICROBIOLOGY RESEARCH
- **Reviewer** in BMC RESEARCH NOTES
- **Reviewer** in BMC Complementary and Alternative Medicine.
- **Reviewer** in ANJAC JOURNAL OF SCIENCES
- **Reviewer** in Indian Journal of Natural Products and Resources
- **Reviewer** in Journal of Saudi Chemical Society