

CURRICULUM VITAE

Dr. R. RANJITH KUMAR, Ph.D., FERA

Researcher & CSO,
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Research and Product development:

Nanoparticle; Agriculture Nanotechnology; Polymer Nanocomposite; Environmental Nanotechnology; Antimicrobial Nanotechnology

Professional Link: LinkedIn; Scopus; Research Gate; Google Scholar; Web of Science.

Personal Details

Father's name : RAJAMANI.R
Date of Birth : 05/06/1984
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The Nilgiris - 643004, Tamil Nadu, India.

Academic Performance

Ph.D., (2011-2016) : Highly Commended
Discipline : BIOTECHNOLOGY
University : Bharathiar University
M.Sc., (2005-2007) : 73 % (First Class)
Discipline : BIOTECHNOLOGY
University : Bharathiar University
B.Sc., (2002-2005) : 62 % (First Class)
Discipline : BIOCHEMISTRY
University : Bharathiar University

Title of the Thesis

Ph.D., Phytochemicals, antioxidant and bioinspired silver nanoparticles studies on betel nuts and betel leaf-As antibacterial and anticancer agent.

M.Sc., Production, Purification of *Taq1* and *Bst1* from *Thermus aquaticus* and *Bacillus stearothermophilus* and mapping its restriction sites.

Current Position

Feb 2021 to till Date

Position #1: Chief Scientific Officer at **Viyen Biotech LLP**, Coimbatore, Tamil Nadu, India.

01st June 2022 to till Date

Position #2: International Research Fellow at **INTI International University**, Negeri Sembilan, Malaysia.

15th Feb 2023 to till Date

Position #3: Adjunct Faculty at **Department of Zoology, PSGR Krishnammal College for Woman**, Coimbatore, Tamil Nadu, India.

09th March 2023 to till Date

Position #4: Visiting Professor at **Department of Biotechnology, Sri Ramakrishna College of Arts and Science**, Coimbatore, Tamil Nadu, India.

Professional Experience Summary

03rd March 2022 to March 2023

Position: Researcher (Part-Time) at **Medicinal Chemistry, Hi-tech Agriculture & Bioactive Compounds Research Group, School of Engineering and Technology, Van Lang University**, Ho Chi Minh City, **Vietnam**.

Experience: 1 year in Research and Publications

June 2018- Feb 2021

Position: Assistant Professor at Department of Biotechnology, **Kongunadu Arts and Science College**, Coimbatore, Tamil Nadu, India.

Experience: 2 years 8 Months in Teaching, Research and Start-up Promotion

Dec 2017 - May 2018

Position: Assistant Professor at Department of Biotechnology, **Nehru Arts and Science College**, Coimbatore, Tamil Nadu, India.

Experience: 5+ Months in Teaching, Administration and Research

Nov 2015 - Dec 2017

Position: Research Faculty at **KIRND Institute of Research and Development**, Trichy, Tamil Nadu, India.

Experience: 2 Years 1 Month in Research, Innovation and Administration

Nov 2007- Dec 2010

Position: Customer Support Representative (LS) at **E4E Business Solutions Pvt Ltd**, Bangalore, India - Project FDI Client LCS -US client.

Experience: 3 Years 1 Month in Administration, Data Processing and Data Filtering.

Additional Professional Experience (Voluntary Service)

March 15th 2023 to Till date

Position: GSFN Enterprise India Chair [Sustainable Development Goals - SDG-6 Water, Manufacturing and Agriculture] at Global Sustainable Futures Progress through Partnerships Network, United Kingdom.

Responsibility: Activities to achieve Sustainable Development Goals

Feb 2021 to Till Date

Position: Research Director at the Nilgiris Education and Research Foundation, the Nilgiris, Tamil Nadu, India.

Responsibility: First Generation Entrepreneur - Supporting to Start-up Company - Developmental Programmes for the Tribals communities in the Nilgiris District/Medicinal plant utilization and conservation/Biological farming and important-Mentorship

Sept 2014 to 8th Feb 2021

Position: Visiting Researcher at The Nilgiris Education and Research Foundation, the Nilgiris, Tamil Nadu, India.

Experience: 6+ years in Research, Leadership and Administration activities in the development of Tribals communities in the Nilgiris District and Mentorship in education and Research.

Fund Received

- ✚ Received Rs. 25,000/- from "Tamil Nadu State Council for Science and Technology", Tamil Nadu, India for organizing Conference on 19.09.2019 to 21.09.2019. "International Level Conference on Impact of innovation in Science and Technology for Society Development (IISTSD-2019)", held on 19.09.2019 to 21.09.2019, held at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.

Awards

- Vocational Excellence Award-2018 from Rotary Ootacamund, The Nilgiris, Tamil Nadu, India.
- Best Young Scientist National Award - 2019 for outstanding in learning, teaching and research from Innovative Research Developers and Publishers (IRDP), Chennai, Tamil Nadu, India on 23rd August, 2019.
- Meritorious Award Academic Year 2018 - 2019 for organizing National Workshop and Publication of Research Papers from Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India on 23rd February 2019.
- Meritorious Award Academic Year 2019 - 2020 for organizing International Conference and publication of research papers from Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India on 06th March 2020.

- **Meritorious Award Academic Year 2019 - 2020** for the **Best Paper** published in *Kongunadu Research Journal* under the **interdisciplinary (Biophysics)** category from *Kongunadu Arts and Science College*, Coimbatore, Tamil Nadu, India on 06th March 2020.
- **Gold Award** for the creating awareness among students towards on Sustainable Development Goals (SDGs), from **Global Sustainable Futures Network (GSFN)**, UK on 16th December 2023.

Member in Professional Body for Academic Development

- **BIRAC E-YUVA Technical Evaluation Panel (TEP) Member** - BIRAC E-YUVA Centre at PSGR Krishnammal College for Women, India.
- **Fellow Member** of **Einstein Research Academy (ERA) - 2021** for the contribution of research and development in bionanotechnology.
- **Expert reviewer** in **Academic Exchange Information Center (AEIC)**, China.
- Appointed as **member** of **AEIC Annual Academic Committee (2022)** for AEIC Annual program by **The AEIC Academic Exchange Information Center**, Guangzhou, China.
- Active Member in **Institute's Innovation Council** at **PSGR Krishnammal College for Women**, Coimbatore, Tamil Nadu, India from 2021 to till date.
- **Member of the Academic Council** of **KPR Institute of Engineering and Technology** as **Subject Except (Industry)** from Industry for Department of Science and Humanities.
- **Member of the Academic Board of Studies - Biotechnology - Sri Ramakrishna College of Arts and Science**, Coimbatore, Tamil Nadu, India.
- **Member of Industry Expert** at Department of Biotechnology, **Bannari Amman Institute of Technology**, Tamil Nadu, India.
- **Member of the Academic Board of Studies - Subject Except (Industry)**, Department of Physics - **Dr. SNS Rajalakshmi College of Arts and Science**, Coimbatore, Tamil Nadu, India.
- **External Examiner - B. Tech, Biotechnology - Laboratory Course (Innovation Practices)** at **PSG College of Technology**, Coimbatore, Tamil Nadu, India

Jury, Mentor, Honour in Scientific Proceedings & Innovations

- ✚ **Primary Evaluator** in **Toycathon - 2021** organized by **Ministry of Education Innovation Cell**, Government of India.
- ✚ **Startup committee member** for **idea scrutinizing of Tamil Nadu Student Innovators - 2021** for ideation camp organized by **Entrepreneurship Development & Innovation Institute (EDII-TN)** Tamil Nadu, India.

- ✚ **Mentor and Evaluator** in **YUKTI INNOVATION REPOSITORY (ideas/innovation/startups)**, Institutions Innovation Council (IIC), Ministry of Education's Innovation Cell, Govt. of India for *PSGR Krishnammal College for Women*, Coimbatore, Tamil Nadu, India.
- ✚ **External Jury** (south zone of Tamil Nadu) for **School Innovator Development Project - 2022** for ideation camp organized by **UPSHIFT & Entrepreneurship Development & Innovation Institute (EDII-TN)** Tamil Nadu, on 27th & 28th January 2023 at **Anna University**, Coimbatore, Tamil Nadu, India.
- ✚ **Global Judging Committee** of **Solving for Humanity 2023**, the first youth-led challenge for human development with the support of **United Nations** and beyond, organized by **South-North Scholars**.
- ✚ **External Jury Member** for the **MSME Idea Hackathon 3.0 (Woman)** on 26th August 2023, at **KPR Institute of Engineering and Technology**, Coimbatore, Tamil Nadu.
- ✚ **External Jury Member** for the **MSME Idea Hackathon 3.0 (Woman)** on 30th August 2023, at **Sri Ramakrishna Engineering College**, Coimbatore, Tamil Nadu.
- ✚ Act as **External expert** in the **Internal Hackathon** at *PSGR Krishnammal College for Women*, Coimbatore, Tamil Nadu, for the ideation and validation the team members for **Smart India Hackathon - 2022** participants on 23rd March 2022.
- ✚ **External Juries** in the **Demo Day Event** on **“Business plan/prototype developed and linkage with Innovation ambassadors for mentorship”** at *PSGR Krishnammal College for Women*, Coimbatore, Tamil Nadu, for the ideation and validation the team members for **Smart India Hackathon - 2022** on 20th May 2022.
- ✚ **External Juries** in the **Startup Pitch Content** in the **“Centre for innovation, Incubation and Entrepreneurship Development (CIIED)”** at *PSGR Krishnammal College for Women*, Coimbatore, Tamil Nadu on 03th September 2022.
- ✚ **Panel member** in the **“INSPIRICON - Interactive Scientific Panel discussion”** organized by **Alpha Bio Cell** and **Biotech Research Society**, Vellore Institute of Technology, Vellore, Tamil Nadu, India on 24th September 2022 in VIT.
- ✚ **Panel member** in the **“VIT Biosummit - 2022 - Bridging Industry and Academia”** on 3rd November 2022, organized by **School of Bio Sciences and Technology**, Vellore Institute of Technology, Vellore, Tamil Nadu, India.
- ✚ Act as **external expert** in the **pre-TNSI ideas screening** at *PSGR Krishnammal College for Women*, Coimbatore, Tamil Nadu, for the ideation and validation the team members for **TNSI- 2022** participants on 25th January 2023.
- ✚ **RAPPORTEUR** in **National Conference on Bioengineering and Nanotechnology in Medicine and Biology** on 23rd & 24th March 2023 at **Sri Ramakrishna College of Arts and Science**, Coimbatore, Tamil Nadu, India.
- ✚ **External Jury Panel member** for the **Project Competition** on 09th June 2023, at **Bannari Amman Institute of Technology**, Sathyamangalam, Tamil Nadu, India.

- ✚ **External Jury Panel member** for the **Innovation Expo** on 08th August 2023, at **PSGR Krishnammal College for Women**, Coimbatore, Tamil Nadu, India.
- ✚ **External Jury Member** for the **Internal BIT Hackathon** on 09th September 2023, at **Bannari Amman Institute of Technology**, Tamil Nadu, India.
- ✚ **External Jury Member** for the **Internal Smart India Hackathon** on 16th September 2023, at **Dr. N.G.P Arts and Science College**, Coimbatore, Tamil Nadu, India.
- ✚ **External Jury Member** for the **Internal Smart India Hackathon** on 23rd & 25th September 2023, at *PSGR Krishnammal College for Women*, Coimbatore, Tamil Nadu, India.
- ✚ Act an **International Technical Committee member** for **“International Inter Varsity Innovation Challenge - 2023 (IVIC 2023)”**, organized by **Einstein Research Academy**, supported by **INTI International University, Malaysia**.
- ✚ **Evaluator Smart India Hackathon - 2023**, organized by **All India Council for Technical Education (AICTE) & Ministry of Education (MoE)**, Government of India.
- ✚ **Mentor for Smart India Hackathon - 2023**, organized by **All India Council for Technical Education (AICTE) & Ministry of Education (MoE)**, Government of India.
- ✚ **External Panel Member** for the **Youth to Entrepreneurship (Y2E) Ideathon** on 23rd February 2024, at **United Institution of Technology**, Coimbatore, Tamil Nadu, presented by **Swadeshi Jagran Manch**.
- ✚ **External Panel Member** for the **Innovsense 24 (Project Expo)** on 22nd March 2024, organized by Centre for Innovation, Incubation and Entrepreneurship Development (CIIED), at **KPR Institute of Engineering and Technology**, Coimbatore, Tamil Nadu, India.
- ✚ **External Panel Member** for the **Final Year B-Tech Biotechnology Students Project Expo** on 1st April 2024, at Department of Biotechnology, **Kalaignarkarunanidhi Institute of Technology (KIT)**, Coimbatore, Tamil Nadu, India.

Invited/Guest Talk

1. Delivered a **special lecture** in one week-short term course on **“Advances in Biological Systems and Material Science in Nano World”** held on April 17th to -23rd, 2017 organized by **Department of Chemistry, Coimbatore Institute of Technology, Coimbatore**, Tamil Nadu, India **Sponsored by AICTE**.
2. Delivered a **special lecture** in **“Biology and Technology-A New Era is Beginning Biotechnology”** held on Nov 07th, 2017 at **KG College of Arts and Science**, Coimbatore, Tamil Nadu, India.
3. Delivered a **special lecture** in **TEQIP III Sponsored FDP on “Emerging Trends on Science and Technology”** during 10th to 16th December 2018 organized by **Department of Chemistry, Coimbatore Institute of Technology**, Coimbatore, Tamil Nadu, India.

4. Delivered a special lecture on **“Session on Idea Generation and Validation workshop”** during 21st November 2021 organized by **Institutions Innovation Council, at PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu, India.**
5. Delivered a **special lecture** in **“Bio-entrepreneurship”** held on April 04th, 2022 at **KG College of Arts and Science, Coimbatore, Tamil Nadu, India.**
6. Delivered Special Guest talk on **“Biotechnology Marketing and Industry Trends Shaping-2022”** at **Department of Biotechnology, Sri Ramakrishna College Arts & Science, Coimbatore, Tamil Nadu, India** for the Student Induction Programme 2022 on 08th August 2022.
7. Delivered Special Guest talk on **“Innovation Thinking & Bio business”** at **Department of Biotechnology, KSG College of Arts and Science, Coimbatore, Tamil Nadu, India** for the Inauguration of Programme 2022 on 15th September 2022.
8. Deliver Guest talk on **“Novel Antibacterial Drugs: Innovation and Challenges”** in **“Microbial Proteomics & Therapeutics -2022 (MPT-2022) hands-on workshop on Advanced Molecular Techniques”**, on 23rd September 2022, organized by **Department of Biotechnology, Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu, sponsored by DST- FIST.**
9. Deliver Guest talk on **“Opportunity in Biotechnology”** at **Department of Biotechnology, Rathinam College of Arts and Science, Coimbatore, Tamil Nadu, India** for the Inauguration of Programme 2022 on 27th September 2022.
10. Deliver Guest talk on **“Fundamentals of Entrepreneurship”** in **First Preneur -2022”** organized by **SNS Innovation Hub, SNS College of Engineering, Coimbatore, Tamil Nadu, India** for the creating awareness among the students to entrepreneurship journey on 28th September 2022.
11. Deliver Guest talk on **“Innovation - A Changing Relationship Between Academia and Entrepreneurship”** organized by **Department of Biotechnology, Dr. N.G.P. Arts and Science College, Coimbatore, Tamil Nadu, India** on 4th November 2022.
12. Deliver Guest talk on **“Promoting Entrepreneurship Among the Graduating Students”** organized by **SNS CT-Entrepreneurship Development Cell** sponsored by **Entrepreneurship Development & Innovation Institute (EDII) Government of Tamil Nadu, Chennai - 32** and **Entrepreneurship Development Cell - Anna University Regional Campus Coimbatore, Tamil Nadu** on 21st November 2022.
13. Deliver Guest talk on **“Promoting Entrepreneurship Among the Graduating Students”** organized by **Entrepreneurship Development Cell, JCT College of Engineering and Technology** sponsored by **Entrepreneurship Development & Innovation Institute (EDII) Government of Tamil Nadu, Chennai - 32** and **Entrepreneurship Development Cell - Anna University Regional Campus Coimbatore, Tamil Nadu** on 22nd November 2022.

14. Deliver Guest talk on **“Promoting Entrepreneurship Among the Graduating Students”** organized by **Entrepreneurship Development Cell, Arjun College of Technology** sponsored by **Entrepreneurship Development & Innovation Institute (EDII) Government of Tamil Nadu, Chennai - 32** and **Entrepreneurship Development Cell - Anna University Regional Campus Coimbatore, Tamil Nadu** on 23rd November 2022.
15. Deliver Guest talk on **“Challenges to Transforming Bioscience Ideas into Global Business Brands”** organized by **Institution Innovation Cell & Department of Biotechnology, SNMV College of Arts and Science, Coimbatore, Tamil Nadu** on 28th November 2022.
16. Deliver resource person talk on **“Institutional Idea Competition Challenge Startup”** organized by **Institution Innovation Council & JCT College of Engineering and Technology, Tamil Nadu, India** on 30th November 2022.
17. Deliver resource person talk on **“Entrepreneurship Skill, Attitude and Behaviour Development”** organized by **Karpagam Innovation Center, Karpagam College of Engineering, Coimbatore, Tamil Nadu, India** on 13th December 2022.
18. Deliver invited talk on **“Challenges to Transforming Scientific Innovation into Global Business Brands”** organized by **Chemistry Association, Department of Chemistry, Avinashilingam Institute for Home Science & Higher Education for Women, Coimbatore, Tamil Nadu, India** on 11th January 2023.
19. Deliver invited talk on **“Development of Novel Research Concepts, Innovation & Challenges”** organized by **Research and Development Cell, Avinashilingam Institute for Home Science & Higher Education for Women, Coimbatore, Tamil Nadu, India** on 11th January 2023.
20. Deliver Guest talk on **“TNSI 2022 Awareness Programme”** organized by **Entrepreneurship Development Cell, Kalaignarkarunanidhi Institute of Technology (KIT)** sponsored by **Entrepreneurship Development & Innovation Institute (EDII) Government of Tamil Nadu, Chennai - 32** and **Entrepreneurship Development Cell - Anna University Regional Campus Coimbatore, Tamil Nadu** on 24th January 2023.
21. Deliver Guest talk on **“Promoting Entrepreneurship Among the Graduating Students”** organized by **Entrepreneurship Development Cell, RVS Technical Campus** sponsored by **Entrepreneurship Development & Innovation Institute (EDII) Government of Tamil Nadu, Chennai - 32** and **Entrepreneurship Development Cell - Anna University Regional Campus Coimbatore, Tamil Nadu** on 25th January 2023.
22. Deliver Guest talk on **“Innovative Approaches and Opportunities for Budding Engineers”** organized by **Department of Physics, & Institution’s Innovation Council, KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu** on 13th Feb 2023.

23. Deliver Guest talk on **“Innovative Approaches and Opportunities for Young Minds”** organized by **Department of Science & Humanities, & Institution’s Innovation Council**, Sri Ranganathar Institute of Engineering and Technology, Coimbatore, Tamil Nadu on 14th Feb 2023.
24. Deliver Guest talk on **“Workshop on Entrepreneurship Skill, Attitude and Behavior Development”** organized by **BIT - Entrepreneurship Development Cell & BIT - Institution’s Innovation Council**, Bannari Amman Institute of Technology, Tamil Nadu on 16th Feb 2023.
25. Deliver Guest talk on **“Youth Entrepreneurship”** organized by Training, Placement and Entrepreneur Cell, Raja Serfoji Government College, Thanjavur, Tamil Nadu sponsored by **Rajiv Gandhi National Institute of Youth Development, Sriperumbudur and Ministry of Youth Affairs and Sports, New Delhi** on 15th March 2023.
26. Deliver Guest talk on **“How to conduct Market Survey: Tools, Technique and Guidelines”** organized by **Kalaignarkarunanidhi Institute of Technology**, Tamil Nadu, sponsored by **Department of Science & Technology, Government of India, New Delhi** on 06th April 2023.
27. Deliver Guest talk on **“Business Model Canvas”** organized by **Karpagam Innovation Center**, Karpagam College of Engineering, Coimbatore, Tamil Nadu, India on 12th April 2023.
28. Delivered Special Guest talk on **“Biotechnology Marketing and Industry Trends Shaping-2023”** at **Department of Biotechnology, Sri Ramakrishna College Arts & Science**, Coimbatore, Tamil Nadu, India for the Student Induction Programme 2023 on 20th June 2023.
29. Delivered Special Guest talk on **“Inspiring the Next Generation - Research to Product”** at **Department of Biotechnology, Sri Ramakrishna College Arts & Science**, Coimbatore, Tamil Nadu, India for the Student Induction Programme 2023 on 20th June 2023.
30. Deliver Guest talk on **“Interfacing with financial Institutions for Business Plan Appraisal”** organized by **Kalaignarkarunanidhi Institute of Technology**, Tamil Nadu, sponsored by **Department of Science & Technology, Government of India, New Delhi** on 13th & 19th July 2023.
31. Deliver Guest talk on **“Business Plan for a Life Science Startup”** on 24th July 2023, organized by **Department of Biochemistry, Karpagam Academy of Higher Education**, Coimbatore, Tamil Nadu, India.
32. Delivered Special Guest talk on **“Biotech Era - Opportunities and Challenges”** at **Department of Biotechnology, KSG College of Arts and Science**, Coimbatore, Tamil Nadu, India for the Inauguration of Programme 2022 on 27th July 2023.

33. Delivered Special Guest lecture on **“How to plan for startup - Legal & Ethical steps”** at **Department of Commerce (Business Analytics), PSG College of Arts and Science & IIC, Coimbatore, Tamil Nadu, India** on 31st July 2023.
34. Deliver Guest talk on **“Experience Sharing & Awareness on startup”** organized by **Kalaignarkarunanidhi Institute of Technology, Tamil Nadu**, sponsored by **Department of Science & Technology, Government of India, New Delhi** on 10th & 16th August 2023.
35. Deliver Guest talk on **“Innovative - Understanding the value of Industry and academic Collaboration”** organized by **Department of Chemical Engineering & Institution’s Innovation Council, KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu** on 26th August 2023.
36. Deliver Guest talk on **“Value of Entrepreneurial Education”** organized by **Department of Biotechnology, Kalaignarkarunanidhi Institute of Technology, Tamil Nadu, India** on 2nd September, 2023.
37. Deliver Guest talk on **“Value of Entrepreneurial Education in Class Room”** organized by **School of Management and Entrepreneur Development, Bharathiar University, Coimbatore, Tamil Nadu, India** on 5th September, 2023.
38. Deliver Inaugural address on **“Bio-Entrepreneurship Workshop”** organized by **Golden Jubilee Biotech Park for Woman Society, Chennai** in association with **PSGR Krishnammal College for Women, Coimbatore, Tamil Nadu, India** at **PSGRKWC** on 8th September, 2023.
39. Deliver Guest talk on **“Potential applications of green chemistry in nanotechnology and opportunities”** organized by **all India Chemical Society & Department of Chemical Engineering, KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu** on 21st September, 2023.
40. Act as a resource person in **National Innovation Day Celebration & deliver guest talk on “Innovation & Opportunity”** organized by **Centre for Innovation, Dr. N. G. P. Arts and Science College, Coimbatore, Tamil Nadu** on 17th Oct 2023.
41. Deliver Guest talk on **“Opportunities in Entrepreneurship”** organized by all **Department of Data Science, Sri Krishna Adithya College of Arts and Science, Coimbatore, Tamil Nadu** on 21st September, 2023.
42. Deliver Guest talk in **Roadshow on Global Bio-India 2023 (BIRAC)** on **“Unleashing Opportunities for New Age Entrepreneurs”** organized by **PSG-STEP:BioNEST, Coimbatore, Tamil Nadu** on 20th November, 2023.
43. Deliver Guest talk on **“Innovation and Design Thinking for Agriculture and Allied Sector”** organized by all **E-YUVA (BIRAC) Centre & Department of Biotechnology, Tamil Nadu Agriculture University, Coimbatore, Tamil Nadu** on 29th November, 2023.

44. Deliver Guest talk on **“Entrepreneurship and Innovation as Career Opportunities”** organized by **Karpagam Innovation Center**, Karpagam College of Engineering, Coimbatore, Tamil Nadu, India on 30th November, 2023.
45. Deliver Guest talk on **“Entrepreneurship Skill and Development”** organized by **Institution Innovation Council (IIC)**, Hindustan College of Engineering and Technology, Coimbatore, Tamil Nadu, India on 27th December, 2023.
46. Deliver resource person talk on **“Value of Startup Ecosystem”** on **National Startup Day** organized by **Institution Innovation Council & JCT College of Engineering and Technology**, Tamil Nadu, India on 09th January 2024.
47. Deliver Invited talk on **“Applying Green Synthesized Nanomaterials in Agriculture Sector for achieving Sustainable Development Goals”** at International Conference organized by all **KPR Institute of Engineering and Technology**, Coimbatore, Tamil Nadu on 10th January 2024.
48. Deliver Invited talk on **“Nanomaterials in Agriculture Sector for achieving Sustainable Development Goals”** at National Agriculture Conference organized by all **Department of Biotechnology, Kalaigarkarunanidhi Institute of Technology**, Coimbatore, Tamil Nadu on 30th January 2024.
49. Deliver Guest talk on **“Entrepreneurship Skill and Attitude Development”** organized by **Department of Computer Science & BIT - Institution’s Innovation Council, Bannari Amman Institute of Technology**, Tamil Nadu on 03rd February 2024.
50. Deliver Guest talk on **“Entrepreneurship opportunity in Life Science Startup”** organized by **Department of Biotechnology, Karpagam Academy of Higher Education**, Coimbatore, Tamil Nadu, on 12th February 2024.
51. **National Science Day Celebration** - deliver Guest talk on **“Research and Innovation Two Different Poles in Life Science Economy”** organized by Department of Biotechnology, **Karunya Deemed University**, Coimbatore, Tamil Nadu, on 28th February 2024.
52. **Celebration of World Consumer Right Day 2024** - deliver Guest talk on **“Fair and Responsible AI Consumer 2024”**, organized by Department of Food Processing Technology & Management, **Hindustan College of Arts and Science**, Coimbatore, Tamil Nadu on 14th March 2024.
53. Deliver Guest talk on **“Advance Techniques to Detect Pesticides in Food”** organized by **School of Technology, Van Lang University, Vietnam** on 03rd April 2024.
54. Deliver Guest talk on **“Research and Innovation Two Different Pole in Economic Development”** at **Faculty Development Program** organized by **Teaching Learning Centre of Excellence (TLCE)**, association with **School of Bioscience and Technology, Vellore Institution of Technology, Vellore, Tamil Nadu** on 05th April 2024.

Conference and Workshop Organized

1. Successfully coordinated two days program **Makeintern & BECon 2K18-19-IIT Delhi Event on "Bioinformatics"** held on 29th & 30th September 2018 at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
2. Successfully organized **Indian Science Congress Association**, Coimbatore Chapter sponsored one day state level workshop on **"Plant Genomic Transformation"** held on 8th December 2018 at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
3. Successfully organized **Indian Science Congress Association**, Coimbatore Chapter sponsored one day workshop on **"Research Methodology"** held on 8th March 2019 at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
4. Successfully organized **Indian Science Congress Association**, Coimbatore Chapter sponsored one day workshop on **"Algal Biotechnology techniques and prospects for the sustainable bioeconomy"** held on 24th July 2019 at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
5. Successfully organized **Science and Engineering Research Board (SERB - Govt. of India)**, **Tamilnadu State Council for Science and Technology (TNSCST)** and **Indian Science Congress Association** sponsored **International Conference on "Impact of innovations in Science and Technology for Societal Development (IISTSD-2019)"** held on 19th - 21st September, 2019 organized by Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India and Faculty of Technology, **Maharakham University**, Maharakham, Thailand.
6. Successfully organized **India Science Congress - Kolkata**, sponsored National Conference on **"Empowerment of Rural Communities through innovations in Science and Technology"** held on 21st and 22nd February, 2020, jointly organized by **India Science Congress, Coimbatore Chapter** and Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
7. Successfully organized **"KASC INNOVATE 2020"** as a part of **National Science Day Competitions** conducted at **Kongunadu Arts and Science College**, Coimbatore during **28th February to 8th March 2020**, jointly organized by Institutions Innovation Council, KASC I-HUB and PG and Research Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
8. **Organizing Co-chair** in **"Global Congress on Sustainable Growth and Development 2021- Health and Life Science"** organized by **Einstein Research Academy**, India during 8th and 9th October 2021 and co-partner with **INTI International University**, **Geomatika University College**, Malaysia, **Vels Institute of Science, Technology and Advance Studies** and **Viyen Biotech LLP**, India.
<https://einstein.co.in/gcsgd2021event/>
9. **Organizing Co-chair** in **"Global Congress on Sustainable Growth and Development 2022 - Health and Life Science"** organized by **Einstein Research Academy**, India during 25th & 26th November 2022 and co-partner with **INTI International University**, **Geomatika University College**, Malaysia, **Savitha**

University, PSGR Krishnammal College for Woman and Viyen Biotech LLP, India.

<https://einstein.co.in/gcsgd-2022/>

10. **Organizing Co-chair** in “Global Congress on Sustainable Growth and Development 2023 - Health and Life Science” organized by Einstein Research Academy, during 15th December 2023 and co-partner with INTI International University, Geomatika University College, Malaysia, Vels Institution of Science, Technology & Advance studies (VISTAS), and Viyen Biotech LLP, India.
<https://einstein.co.in/gcsgd-2023/>

Research output - Patents and Publications

Patents

1. **Title:** Bimetallic-semi-aromatic polyester nanocomposite and method for preparation thereof, **Inventors** : P. K. Gupta, S. Pandit, R. Gahtori, S. C. Chabattula, G. Choudhury, S. Yadav, M. Sahni, **R. Ranjithkumar**, S. S. Mathapati, S. Sengupta.
Patent no : 202111040353, **Publication Date:** 01.10.2021
2. **Title:** Anti-microbial chitosan-based nanoparticles composition and method for fabrication thereof, **Inventors:** P.K. Gupta, S. Pandit, S. Chauhan, R. Gahtori, S. C. Chabattula, H. C. Joshi, S. Narayanan, M. Sahni, **R. Ranjithkumar**, P. Senthilkumar.
Patent no: 202111040350, **Publication Date:** 01.10.2021

Research Publications

2013

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86. Devaraj Bharathi, T. N. Jaya Ganesh, Jintae Lee, [R. Ranjithkumar](#). Facile synthesis and characterization of chitosan functionalized silver nanoparticles for antibacterial and anti-lung cancer applications. *Polymers*, 15, 2700, (2023). [SCI, IF - 5.0]
87. Sarkar S.M, Dhar B.K, Fahlevi M, Ahmed S, Hossain M.J, Rahman M.M, Gazi M.A.I, [R. Ranjithkumar](#). Climate change and ageing healthy in developing countries, *Global Challenges*, 2200246, 1-8, (2023) [SCI, IF - 5.135]

88. Devaraj Bharathi, [R. Ranjithkumar](#), Jaya Ganesh T. N., Sinouvassane Djearamane, Jintae Lee, Ling Shing Wong. Green synthesis of chitosan/silver nanocomposite using kaempferol for triple negative breast cancer therapy and antibacterial activity. *Environmental Research*, 238, 117109, (2023) [SCI, IF - 8.3]
89. K. Sunitha Kumara, S.N. Padma Devi, [R. Ranjithkumar](#), Sinouvassane Djearamane Lai-Hock Tey, Ling Shing Wong, Saminathan Kayarohanam, Natarajan Arumugam, Abdulrahman I. A, Karthikeyan Perumal. Organic Remobilization of zinc and phosphorus availability to plants by application of mineral solubilizing bacteria *Pseudomonas aeruginosa*. *Heliyon*, 9(11), E22128. (2023) [SCI, IF - 4.0]
90. [R. Ranjithkumar](#), Indumathi K, Srimathi P, Praveena G, Ling Shing Wong, Sinouvassane D. Structure and Reactivity of Halogenated GC PNA Base Pairs - A DFT Approach. *Journal of Experimental Biology and Agricultural Sciences*, 11(5), 800-808, (2023). [Scopus]

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91. S. Niranjana. S. Heena. D. Karthikkumar B. K. Dhar, V. H. Cong, L. S. Wong, [R. Ranjithkumar](#). Mitigating Global Challenges: Harnessing Green Synthesized Nanomaterials for Sustainable Crop Production Systems. *Global Challenges*, 8(1), 2300187, (2024) [SCI, IF - 5.135]
92. A. Thenarasu, M. K. Chai, Y. H. Tan, L. S. Wong, [R. Ranjithkumar](#), S. Djearamane. Study of *Chlorella vulgaris* from Different Growth Phase as Biosensor for Detection of Titanium and Silver Nanoparticles in Water". *Natural Environmental and Pollution Technology*. [Accepted for Publications]

Editorial

1. [R Ranjithkumar](#), et al. "Nanotechnology in Farming Sustainability". *Acta Scientific Applied Physics*, 2(9), 01-02, (2022).
2. [R Ranjithkumar](#), et al. "Sustainable Green Synthesis of Nanoparticles". *Acta Scientific Applied Physics*, 2(10), 01-02 (2022).

Book Chapter Publication

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Chapter Eight (Title) : The Role of Microorganisms in Green synthesis of Nanoparticles. (Pp 102-112).

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Paper published in conference proceeding with ISBN

1. [Ranjithkumar, R.](#), K. Selvam, R.P. Senthil Kumar, J. Manikantan, C.K. Senthilkumaran and B. Chandrasekhar. *Antibiofilm action of silver nanoparticles coated intravascular Catheter (AgNPs-IVC) against clinically isolated Human Pathogens*, National Conference on Developing Scenario in Applied Science and

Communicative English (**PRAYAF-2016**) on 21st & 22nd April 2016 organized by Kumaraguru College of Technology, Coimbatore, Tamil Nadu, India. ISBN: 978-93-85477-83-6. Pp. 162-166 (2016).

2. [Ranjithkumar, R.](#), K. Selvam, R.P. Senthil Kumar, J. Manikantan, C.K. Senthil Kumaran and B. Chandarshekar. *Green synthesized silver nanoparticles coated fabric: Antibacterial Textile Finishing*, National Conference on Developing Scenario in Applied Science and Communicative English (**PRAYAF-2016**) on 21st& 22nd April 2016 organized by Kumaraguru College of Technology, Coimbatore, Tamil Nadu, India. ISBN: 978-93-85477-83-6. Pp. 167-170 (2016).
3. [Ranjithkumar, R.](#), S. Sathish, R. Sengodan, C.K. Senthil Kumaran and B. Chandar Shekar. *Antibacterial properties of Indium Titanium Oxide Nanoparticles*, National Conference on Developing Scenario in Applied Science and Communicative English (**PRAYAF-2016**) on 21st & 22nd April 2016 organized by Kumaraguru College of Technology, Coimbatore, Tamil Nadu, India. ISBN: 978-93-85477-83-6. Pp. 158-161 (2016).
4. Senthilkumar, R. P., V. Bhuvaneshwari, S. Sathyavimal, Minu Venugopal P. Sagadevan, V. Malayaman and [R. Ranjithkumar](#). *Green chemistry approach silver nanoparticles via Sidar hombifolia L as antibacterial material*, National Conference on Developing Scenario in Applied Science and Communicative English (**PRAYAF-2016**) on 21st& 22nd April 2016 organized by Kumaraguru College of Technology, Coimbatore, Tamil Nadu, India. ISBN: 978-93-85477-83-6. Pp. 145-148 (2016).

Entrepreneurship Course Completed

- ✚ Successfully completed the training conducted under **Agri-Clinics and Agri-Business Centres (AC&ABC)** Scheme of **Government of India (Ministry of Agriculture and Farmers Welfare)** from **06-04-2022** to **20-05-2022** at PSGRKCW (Nodal Office), Tamil Nadu, India.

Paper Presented in International Conference

- 1) [Ranjithkumar R.](#), “Disease in plant response to apoptosis” at “International Conference on Biotechnology promise and realities” held on 14th and 15th July 2006 in **P.S.G.R. Krishnammal College for Women, Coimbatore, Tamil Nadu, India.**
- 2) [Ranjithkumar R.](#), “Green synthesis of silver nanoparticles for Antibacterial Textile Finishing” at an international level conference on “Bioscience: State-Of-The-Arts Advancements” organized by **Society for Education & Scientific Research (SESR) at Kumarakom, Kerala, India** during 11th and 12th September 2014.
- 3) [Ranjithkumar R.](#), “Betel Nut Mediated Silver Nanoparticles Coated Fabric (BN-AgNPs) - A Potential Antibacterial Material” in International Conference on “Bioscience Elixir of Life (BSEL-2016)” organized by Department of Microbiology & Biotechnology, **Sri Ganesh College of Arts and Science, Salem, Tamilnadu, India** on 5th Feb, 2016.

- 4) [Ranjithkumar R.](#), “Impact Assessment of hybrid Chitosan-Calcium Phosphate Nanoparticles in Plant Growth” in International Conference on “*Bio Science and Industrial Applications*” organized by Department of Biochemistry and Microbiology, **Sri Ramakrishna College of Arts and Science for Women**, Coimbatore, Tamilnadu, India on 16th February 2018.
- 5) [Ranjithkumar R.](#), “Hybrid Nanoparticles in Biological Applications” in International Conference on “*Nutraceuticals and its applications*” organized by Department of Biochemistry, **Kongunadu Arts and Science College**, Coimbatore, Tamilnadu, India, sponsored by India Science Congress Association, Coimbatore Chapter on 6th March 2018.
- 6) [Ranjithkumar R.](#), “Prospective antimicrobial properties of Hybrid Chitosan - Silver Nanomaterials” in International Conference Series on “*Food Safely*” held during November 27th, 2020, Dubai (Online mode).

Paper Presented in National Conference & Seminar

- 1) [Ranjithkumar R.](#), “Stem cell in Sugar Syndrome” at a national seminar on Stem cells and clinical applications, at Centre for Biotechnology, **Acharya Nagarjuna University, A.P. India** held on December 15-16th, 2006.
- 2) [Ranjithkumar R.](#), “Role of Biotechnology in Health Care Sector” at a “National seminar on Advance trends in Biotechnology “at **Dr.N.G.P. Arts and Science College**, Coimbatore-21, Tamilnadu, India held on 19th& 20th December 2008.
- 3) [Ranjithkumar R.](#), “Nanoparticles and its medical application” at a two-day National level conference on Perspectives of Biotechnology for Healthcare Development at **Dr.N.G.P. Arts and Science College**, Coimbatore-21 held on 29th & 30th December 2011.
- 4) [Ranjithkumar R.](#), “Nanotechnology in Agriculture Application” at a national conference on “*Biotechnology - Present and Future*” at **Dr.N.G.P. Arts and Science College**, Coimbatore-21 sponsored by Kovai Medical Center and Hospital, Tamil Nadu, held on 26th& 27th September-2013.
- 5) [Ranjithkumar R.](#), “Nanotechnology and Sustainability” at a National Level Seminar on “*Current Trends in Biodiversity Conservation and Forest Management (CTBCFM-2014)*” held on 6th-7th January 2014 at **Centre for Biodiversity and forest Studies, Periyar University**, Salem-11, Tamil Nadu.
- 6) [Ranjithkumar R.](#), “*Vateria Indica*” plant in the National Level Symposium and Plant Products held on 23rd January, 2014 at PG and Research Department of Biotechnology, **Kongunadu Arts and Science College**, Coimbatore, Tamil Nadu.
- 7) [Ranjithkumar R.](#), “Green Synthesis of silver nanoparticles via plant and its biological application” at a National Conference on “*Recent strategies in Biodiversity Conservation*” held at **Sree Narayana Guru College**, Coimbatore, Tamil Nadu organized by Department of Biotechnology on 22nd Jan-2014.
- 8) [Ranjithkumar R.](#), “Production and Purification of *TaqI*, *BstI* from *Thermus aquaticus* and *Bacillus stearothermophilus* and mapping its restriction site” at a

national seminar on “Recent advances in Biotechnology and Applied Microbiology” held at Department of Microbiology, **Kanchi Shri Krishna College of Arts and Science, Kanchipuram**, Tamil Nadu, Sponsored by **Department of Biotechnology, Ministry of Science and Technology, Government of India** on 3rd& 4th March-2014.

- 9) [Ranjithkumar R.](#), “**Biomimetic etiquette for room temperature synthesis of silver nanoparticles via orange peel aqueous extract in minutes: An Antibacterial Material**” at a National Conference on “**Medical Plants and Health Care**” organized by PG and Research Department of Biotechnology, **Kongunadu Arts and Science College**, Tamil Nadu, on 17th March 2015.
- 10) [Ranjithkumar R.](#), “**Traditional Medicinal Plants - Nilgiris**” in a National Seminar on “**Biodiversity Products and Industrial Application (BPIA-2015)**” organized by **Center for Biodiversity and Forest Studies (CBFS), Periyar University**, Salem, Tamil Nadu on 28th & 29th September, 2015.
- 11) [Ranjithkumar R.](#), “**Mangosteen Peel Mediated PVA Coated Zinc Oxide Nanoparticles (MPS-PVA-ZNO NPS) - Catalytic Degradation of Hazardous Dye**” in a National Seminar on “**Ecobiological Sciences and its Applications**” organized by School of Life Science, **Periyar University**, Salem, Tamil Nadu, India on 17th&18th March, 2016.
- 12) [Ranjithkumar R.](#), “**Antibiofilm action of silver nanoparticles coated intravascular Catheter (AgNPs-IVC) against clinically isolated Human Pathogens**” in National Conference on “**Developing Scenario in Applied Science and Communicative English (PRAYAF-2016)**” on 21st& 22nd April 2016 organized by **Kumaraguru College of Technology**, Coimbatore, Tamil Nadu, India.
- 13) [Ranjithkumar R.](#), “**Nanotechnology - how can small science have big impact in agriculture sector?**” in National level conference on ‘**Reaching the unreached through science and technology’ - concepts, principles and application of science and technology for nation building**” on 9th to 11th October, 2017 at **Kongunadu Arts and Science College**, Coimbatore, Tamil Nadu, India Sponsored by **Indian Science Congress**.

Short Term Training Program

- 1) Participated and successfully completed the online short-term course in “**Biodiversity-Status, Services & Management Practices,**” organized by the Department of Botany, **PG Diploma in Biodiversity**, Kongunadu Arts and Science College, Coimbatore, Tamilnadu from 01.09.2020 to 10.09.2020.
- 2) Participated and successfully completed **AICTE Quality Improvement Scheme (AQIS) Short Term Training Program (STTP)** through online mode on “**Smart Materials and Systems Emerging Research Areas**” conducted by Department of Mechanical Engineering, **C V Raman Global University**, Bhubaneswar, Odisha from 02.11.2020 to 07.11.2020.

Certificate in Extra Curriculum Activities

- Completed voluntary service in our School’s **Junior Red Cross** from 1997 to 1998 conducted by **INDIAN RED CROSS SOCIETY TAMILNADU BRANCH**, The

Nilgiris, at Government Higher Secondary School, Nanjanad, The Nilgiris, Tamil Nadu, India.

- Completed Combined **Special Annual Camp 2000-2001** conducted by **Directorate of School Education**, Tamil Nadu, National Service Scheme, The Nilgiris District from 22nd Feb to 3rd March 2001.
- Completed three-month computer certificated course in titled **“Bharathi”** from 25-12-2000 to 28-02-2001 at Everonn Computer Centre, Tamil Nadu, India.
- Completed certificate course in **DATA Analysis** (using SPSS) conducted by Centre for Research, Dr.N.G.P. Arts and Science College, Coimbatore-48, Tamil Nadu, India.

Faculty Development Program Attended

- Participated in **Two Day Faculty Development Program** on **“Teaching Techniques”** held on 16th -17th July 2018 at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India organized by ICT Academy.
- Participated in **One Day National Level Workshop** on **“NAAC-Revised Accreditation Framework (RAF) and Road Map to Higher Education Institutions”** Conducted by Internal Quality Assurance Cell, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India, held on 28th September 2018.
- Participated in IQAC sponsored **One Day Faculty Development Programme (FDP)** on **“Testing and Evaluation”** at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India, held on 26th Feb, 2019.
- Participate in **Five Days Virtual Faculty Development Programme** on **“Recent Trends in Biomedical Engineering - Research Perspective”** organized by Department of Biomedical Engineering, **Dr.N.G.P. Institute of Technology**, Tamil Nadu, during 26thto 30th April, 2020.
- Participated in **One Week National Level Online Faculty Development Program** on **Innovation to Academicians** conducted from 11th May to 16th May 2020, organized by **Ramachandra College of Engineering**, Eluru, India.
- Participated in **One Week National Level Online FDP** for trainer on **“Mastering the Arts of Handling Post COVID-19 Challenges for Sustainable Development”** organized by Faculty of Humanities and Science & Industry Institute Planning Cell, **Dr. M.G. R. Education and Research Institute**, Chennai, Tamil Nadu, India from 19th May to 23rd May 2020.
- Participated in **AICTE Training and Learning (ATAL) Academy** online **Faculty Development Program** on **“Blended Learning and Flipped Classroom”** from 24-08-2020 to 28-08-2020 at JIC College of Engineering, West Bangal, India.
- Participated & successfully completed five days **Faculty Development Program** on **“Research and Career”** held from 19th to 23rd October 2020, organized by **Vimala College**, Thrissur, Kerala supported by **DBT-STAR College Scheme**, Government of India.

Certification of Appreciation

- First prize in “**Tamil debit**” in School Annual Day & Sports Day Celebration (**2001-2002**) organized by Government Higher Secondary School, The Nilgiris, Tamil Nadu, India.
- Attended in the “**Inter Collegiate Trekking Programme**” conducted on 12.02.2003 from Maruthamalai to Anuvavi Subramanisaswamy Temple, Periya Thadagam jointly organized by *Youth Red Cross Zone, Bharathiar University* and **Dr.N.G.P. Arts and Science College**, Coimbatore, Tamil Nadu, India.
- Attended one day **World Hepatitis Day** even “**HEP-2013-Attempt to Guinness Records Event**” held on 28th July 2013 under the auspices of World Hepatitis Alliance in Coimbatore, Tamil Nadu, India.
- **First Prize in Science Exhibition** organized by SNMV College of Arts and Science, Coimbatore, Tamil Nadu, India, held on 15th March 2005.
- **Third Prize** in Poster Presentation - “**Biosubmit- 2018**” organized by Hindusthan College of Arts and Science, Coimbatore, Tamil Nadu, India, held on 3rd February 2018.
- Attended in a “**World Environmental Day - 2014**” organized by The Nilgiris Education and Research Foundation, Tamil Nadu associated with UNEP on 5th June 2014.

Seminar and Conference Attended National & International

1. Participated in National level Seminar on “**Advancement Biosciences**” held on 3rd and 4th Oct 2003, at SNMV College of Arts and Science, Tamil Nadu.
2. Participated in National level Symposium on “**Modern Biological Sciences**” at SNMV College of Arts and Science, Tamil Nadu, held on 8th& 9th Oct 2004.
3. Participated in 3rd **National Symposium on “Modern Biological Sciences**” at SNMV College of Arts and Science, Tamil Nadu, held on 15th& 16th Feb 2006.
4. Participated in Popular Lectures on “**Current Trends in Biotechnology and Bioinformatics**” held at Research Department of Botany, Nirmala College for Woman, Tamil Nadu, Sponsored by Department of Biotechnology, New Delhi, on March 2nd, 2012.
5. Participated in National level Conference on “**Emerging Trends in Herbal Research and Cancer Therapy**” held at KMCH College of Pharmacy, Tamil Nadu, on 26th June 2012.
6. Participated in National level Conference on “**Bio-Medical Waste Management**” held at Dr.N.G.P. Arts and Science College, Tamil Nadu, organized by Department of Hospital Administration in associate with Confederation of Indian Industry, on 28th September 2012.

7. Participated in a Seminar on **“Understanding our Wildlife”** organized by OSAI and Department of Zoology, Kongunadu Arts and Science College, Tamil Nadu on 10th Oct 2014.
8. Participated in National conference on **“Advance Functional Materials”** (NCAFM-2014) organized by Department of Physics, Bharathiar University, Tamil Nadu, during 30th and 31st January, 2014.
9. Participated in **“State Level Search for the Wizards of Bioscience”** organized by Department of Biotechnology, Kongunadu Arts and Science College, Tamil Nadu, held on 18th Feb-2015.
10. Participated in National Conference on **“Biodiversity Products and Industrial Applications” (BPIA-2015)** organized by Centre for Biodiversity and Forest Studies, Periyar University, Salem, Tamil Nadu, held on 28th - 29th September, 2015.
11. Participated in one day seminar on **“Applications of Light in Science and Technology (IYL-15)”** organized by Department of Science and Humanities, Kumaraguru College of Technology, Coimbatore, Tamil Nadu, India on 4th Dec 2015.
12. Participated in **“11th Asia Pacific Chitin and Chitosan Symposium & 5th Indian Chitin and Chitosan Society Symposium”** organized by Indian Chitin and Chitosan Society at IMA Hall, Kochi, Kerala, India held from 28th to 30th September, 2016.
13. Participated in two-day International Conference on **“Current Trends in Advanced Biomedical Technology” (CTAB -2018)**, organized by Nehru Arts and Science College, Coimbatore, held on 24th& 25th January, 2018.
14. Participated in **“One Day International Seminar on Advances in Genomics and Proteomics”** organized by Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India sponsored by Indian Science Congress Association (ISCA), Coimbatore Chapter held on 07th August 2018.
15. Participate in **“One Day Seminar on Advanced Separation and Detection”** organized by Agilent Technologies” India held on 6th September 2018.
16. Participate in International Symposium on **“Trends in Solar Cell Research”** organized by Department of Physics & Department of Chemistry Kongunadu Arts and Science College, Coimbatore, Tamilnadu, India sponsored by Indian Science Congress Association (ISCA), Coimbatore Chapter held on 03rd October 2018.
17. Participate in **106th India Science Congress Meet in Lovely Professional University, Punjab, India** held on 03rdJan - 7th Jan, 2019.
18. Participate in National Seminar on **“Astrophysics Exploring the Universe”** organized by Department of Physics, Kongunadu Arts and Science, Coimbatore, Tamil Nadu, India on 21st February, 2019.
19. Participate in National Conference on **“Ecolife-Revolutionary Rise of Women”** organized by Women Empowerment Cell & Eco Club, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India on 15th March 2019.

20. Participate in National Conference on **“Science and Technology for Insect Diversity Conservation and Agricultural Progressive”** organized by Department of Zoology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India on 29th July, 2019.
21. Participate in National Conference on **“Frontiers in Biotechnology - 2019”** organized by PG and Research Department of Biotechnology, Nandha Arts and Science College, Erode, Tamil Nadu, India on 9th August 2019.
22. Participate in National Seminar on **“Basic and Beauty of Quantum Mechanics”** organized by **TESLA FEST 2020** organised by the Department of Physics, Kongunadu Arts and Science College, Tamil Nadu, held on 26th February, 2020.
23. Participate in Two days international e-Conference on **“Materials Processing & Characterization (ICMP-C-2020)”** on 18th and 19th September 2020 organized by Chaitan Bharathi institution of Technology, Hyderabad, Telangana, India.
24. Participate in one International Webinar on **“Advanced Scanning & Transmission Electron Microscopy 2021(i-WASTEM-2021)”** on 04th September 2021, organised by Faculty of Science, Universiti Tunku Abdul Rahman, Kampar, Malaysia.
25. Participate in Two days **“1st International Conference on Green Sustainable Technology and Management ICGSTM-2022”**, on 10 & 11th June 2022, organized by INTI International University, Malaysia.

Professional Workshop Attended National & International

1. Participated in the Orientation programme cum workshop on **“Techniques on Nucleic Acid Biology”** organized by the Department of Biotechnology & Research, SNMV College of Arts & Science, Tamil Nadu and **Bangalore Genei Ltd**, Bangalore, during 22nd to 25th November 2006.
2. Participated in Two Day Hands on workshop on **“Down Stream Processing and its applications”** organized by Dr. N.G.P Arts and Science College and **Centre for Bioscience and Nanoscience Research (CBNR)**, held at Department of Biotechnology, Dr.N.G.P. Arts and Science College, Tamil Nadu from 15th to 16th February, 2013.
3. Participated in One Day workshop on **“Tamil - Learning and Teaching Via Computer Technology”** organized by Dr.N.G.P. Arts and Science College & Dr.N.G.P. College for Education, Tamil Nadu on 11th March 2013.
4. Participated in UGC funded one day State Level Workshop on **“Advanced Techniques in Biology”** organized by PG & Research Department of Botany and Department of Zoology, Vellalar College for Women (Autonomous), Tamil Nadu, on 18th September 2013.
5. Participated in one day National Level Workshop entitle **“Biosafety, Bioethics and Calculations in Biological Science”** organized by PG and Research Department of Biotechnology, Kongunadu Arts and Science College, Tamil Nadu, held on 16th December 2013.

6. Participated two-day workshop on **“Advanced Instrumental Methods for Engineering Materials (AIMEM-2014)”** organized by the Department of Physical Science during 18th& 19th October 2014 at Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India
7. Participated one day national workshop on **“Excellence in youth Leadership”** organized by the PG and Research Department of Commerce entrepreneurship development cell on 31.12.2014 at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
8. Participated UGC sponsored state level workshop on **“Applications of statistical tools using SPSS-hands on experience”** held at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India from 11.02.2016 to 12.02.2016.
9. Participated two-day Science Academics Lecture workshop on **“Innovations in Bioscience”** on 22nd and 23rd Feb-2016 organized by Department of Biochemistry, Bharathiar University, Coimbatore, Tamil Nadu, India.
10. Participated one day National level hands on Training on **“Comet Assay”** held on 24th Feb-2016 at PG & Research Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
11. Participated one day National Level Workshop on **“Spawn Production and Mushroom Cultivation”** under *DBT-STAR COLLEGE SCHEME* held on 1st July 2016 at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
12. Participated in the one week-short term course on **“Advances in Biological systems and Material Science in Nano World”** at Department of Chemistry, Coimbatore Institute of Technology, Coimbatore, Tamil Nadu, INDIA **Sponsored by AICTE.**
13. Participated in the one-day national level workshop on **“HPLC Analytical Technique”** held on 5th Sept 2017 at Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
14. Participated in the one-day training programme on **“Mushroom Cultivation”** held on 26th October, 2017 at Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
15. Participated in the two-day national level workshop on **“Next Generation Sequencing Data Analysis”** held on 21st and 22nd December 2017 at Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India.
16. Participated in the one-day national level hands-on-training on **“Homology Modelling and Molecular Docking”** held on 27th January 2018 at Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamilnadu, India. **Sponsored by Indian Science Congress Association, Kolkata, India.**
17. Participated in the one-day **international workshop** on **“Materials for Energy, Environment and Biological Applications”** to be held on 05th April, 2018 at Kongunadu Arts and Science College, Tamil Nadu, in collaboration with **University**

- of Exeter**, Environment and Sustainability Institute, University of Exeter, United Kingdom, sponsored by **Dr. M. Aruchami Research Foundation**.
18. Participated in “**International Workshop on Approaches in Basic and Applied Research in Science and Technology**” organized by Department of Zoology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India sponsored by Indian Science Congress Association (ISCA), Coimbatore Chapter held on 10th August 2018.
 19. Participated in “**One Day National Level Training Programme on HPLC Technique**” organized by Department of Botany, Kongunadu Arts and Science College, Coimbatore, Tamilnadu, India sponsored by Indian Science Congress Association (ISCA), Coimbatore Chapter, Tamil Nadu, held on 20th September 2018.
 20. Participate in “**Gene expression analysis using real time PCR**” organized by Department of Biotechnology, Kongunadu Arts and Science College, Tamil Nadu, held on 04th September, 2018.
 21. Participated in one day workshop on “**DNA Taxonomy and Phylogeny**” sponsored by Indian Science Congress Association (ISCA), Coimbatore chapter organized by Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India on 5th October 2018.
 22. Participated in one day workshop on “**Bio Statistical Analysis through SPSS Software Package**” sponsored by Indian Science Congress Association (ISCA), Coimbatore chapter organized by Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India on 8th October 2018.
 23. Participated one day training programme on “**Field Emission Scanning Electron Microscope (FESEM)**” sponsored by DST-CURIE organized by Avinashilingam Institute for Home Science and Higher Education for Woman, Coimbatore, Tamil Nadu, India on 15th December, 2018.
 24. Participated in “**India-UK workshop on Knowledge Transfer on the sustainability of innovative water quality Monitoring Technologies to India-III: Circular Economy, Graphene related technologies**” held at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India on 13th March, 2019.
 25. Participated in one day hands-on-training on “**Transfer of plant tissue culture technology to the stakeholder of farming community**” sponsored by Indian Science Congress Association (ISCA), Coimbatore chapter organized by Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, India on 27th August 2019.
 26. Participated in one-day State Level Workshop on “**Biostatistical tools for Biological and Publics health Research**” sponsored by Indian Science Congress Association (ISCA), Coimbatore chapter organized by Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore, Tamil Nadu, on 1st February 2020.

27. Participated in the “Two Days Regional Level Workshop on Entrepreneurial Scope in Medicinal Plants Cultivation and Extraction” organized by Entrepreneurship Development Cell, AURCC, Coimbatore sponsored by National Medicinal Plant Board (NMBP), New Delhi, India on 25th & 26th 2022.

Research Collaborators – National & International

Dr. Jayeeta Bhaumik, Center of Innovative and Applied Bioprocessing, Punjab, India
Dr. B. Chandar Shekar, Kongunadu Arts and Science College, Tamil Nadu, India
Dr. R. T. Narendarankannan, Kongunadu Arts and Science College, Tamil Nadu, India
Dr. Piyush Kumar Gupta, Sharda University, Uttar Pradesh, India
Dr. T.S. Gopenath, JSS Academy of Higher Education and Research, Karnataka, India
Dr. Sinouvassane Djearmane, Universiti Tunku Abdul Rahman, Malaysia
Prof. Dr. Ling Shing Wong, INTI International University, Malaysia
Dr. P.A. Luque, Universidad Autónoma de Baja California, Mexico
Dr. T. Fu, Xi'an Jiaotong University, China
Dr. Leonardo Valadares, Brazilian Agricultural Research Corporation, Brazil
Dr. Nguyen Van Chi, Van Long University, Vietnam
Dr. Vo Huu Cong, National Agriculture University, Vietnam
Dr. Bharathi Devaraj, Yeungnam University, South Korea
Dr. B.K. Dhar, Mohidol University, Thailand

Reviewer in top Journal

1. International Journal of Biological Macromolecules – Elsevier
2. Results in Physics – Elsevier
3. South African Journal of Botany – Elsevier
4. Optical Materials – Elsevier
5. Scientific Reports – Springer nature
6. Inorganic and Nano-Metal Chemistry – Taylor & Francis
7. ACS Applied Materials & Interface – American Chemical Society

Research Citation (March, 2024)

Google Scholar	: Total citation: 1453	h-index: 20	i10-index: 35
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Google Scholar ID: <https://scholar.google.co.in/citations?user=2GfrQJ0AAAAJ&hl=en>

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Scopus ORCID: <https://www.scopus.com/authid/detail.uri?authorId=57208159927&eid=2-s2.0-85061758043>

ORCID: <https://orcid.org/0000-0001-7438-0200> (Scopus Author ID: 57208159927)

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Yours sincerely



(R. RANJITH KUMAR)