

## CURRICULUM VITAE

### **SARANYADEVI .A.R**

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### **Academic Background**

- Qualified in SET Tamilnadu 2012 in the subject of Lifesciences.
- M.Sc(Genomics), Centre for Excellence in Genomic Sciences, Madurai Kamaraj University, Madurai, TamilNadu, 2006-2008.
- B.Sc(Biotechnology), Department of Biotechnology, Lady Doak College, Madurai, TamilNadu, 2003-2006.

### **Work experience**

- Assistant Professor, Department of Zoology, Fatima College, Madurai (July 2015 - August 2015).
- Assistant Professor, Department of Biochemistry, Sourashtra College, Madurai (December 2015 - June 2024).
- Assistant Professor, Department of Microbiology, The Madura College, Madurai (August 2024 – May 2025).

### **Research experience**

- **Basic Techniques in Biology**  
Department of Biotechnology, Lady Doak College, Madurai (April 2004 – May 2004).
- **Hands on training in Plant Tissue culture**  
Department of Plant Breeding and Genetics, Agricultural College and Research institute, Madurai(May 2005-June 2005).
- **Mini project in Microbial techniques on Probiotics**  
Department of Agricultural Microbiology, Agricultural College and Research institute, Madurai (December 2005-January 2006).
- **Encapsulation of Probiotics, *Lactobacillus Sp.* for its efficient utilization in the area of Food Biotechnology**  
Department of Biotechnology, Lady Doak College, Madurai (November 2006-April 2007).
- ***Insilico* modeling and structure-based drug design of STAT3 inhibitors**  
Centre for excellence in Genomic sciences, Madurai Kamaraj University, Madurai (November 2007-April 2008).

- **Junior Research Fellow – DBT project entitled “Regeneration of High Throughput Plantlets via Somatic Embryogenesis in Pigeon Pea, *Cajanus cajan* L.Millsp.”**  
Department of Plant Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai (June 2008 – June 2010).

## Publications

- Karuppanapandian T, **Saranyadevi A R**, Jeyalakshmi K Manoharan K 2008 Mechanism, Control and Regulation of Leaf Senescence in Plants; *J Plant Biol* 35: 1-15

## Publications in Conference proceedings

- Viji M., Maheswari P., **Saranyadevi A.R.**, Karuppanapandian T., Manoharan K. (2009) Abiotic stress factor induced induction of somatic embryogenesis in green gram, *Vigna radiata* L. Wilczek. In: National Conference on Modern Trends in Plant *in vitro* Biology held at Department of Plant Sciences, Bharathidasan University, Tiruchirappalli, 5-6<sup>th</sup> January, 2009, p 17.
- Viji M., Maheswari P., **Saranyadevi A.R.**, Karuppanapandian T., Janaki C., Christina Jenny E., Manoharan K. (2009). Studies on the induction of somatic embryogenesis in *Cajanus cajan* L. Millsp. In: National Science Day and Aqua-Terr Annual Conference on Organismal and Functional Genomics held at the School of Biological Sciences, Madurai Kamaraj University, Madurai, 14<sup>th</sup> March, 2009, p 6.
- Premkumar Manimaran and **Saranyadevi Rathakrishnan** (2025). Isolation and Characterization of Keratinolytic Bacteria for Efficient Feather Waste Valorization In: National Seminar on New Vistas in Pharmaceutical Microbiology held at the Department of Microbiology, The Madura College, Madurai, 21<sup>st</sup> February, 2025, p 38. (ISBN No: 978-93-90203-92-5).
- Balaji Muralidharan and **Saranyadevi Rathakrishnan** (2025). Isolation and Identification of Bacteria Capable of Degrading Keratin for Poultry Feather Waste Bioconversion In: National Seminar on New Vistas in Pharmaceutical Microbiology held at the Department of Microbiology, The Madura College, Madurai, 21<sup>st</sup> February, 2025, p 45. (ISBN No: 978-93-90203-92-5).
- Velmurugan Senthilnathan and **Saranyadevi Rathakrishnan** (2025). Bacterial Keratinases: Biochemical Properties and Their Application in Bioconversion In: National Seminar on New Vistas in Pharmaceutical Microbiology held at the Department of Microbiology, The Madura College, Madurai, 21<sup>st</sup> February, 2025, p 55. (ISBN No: 978-93-90203-92-5).
- Premkumar Manimaran, Velmurugan Senthilnathan, Balaji Muralidharan and **Saranyadevi Rathakrishnan** (2025). Bioconversion of Feather Waste: Isolation of Keratinolytic Bacteria for Sustainable Valorization In: 6th International Conference on Genome Biology (ICGB-6): Cell – Organism – Environment and the 56th Aqua-Terr Annual Day, held at the School of Biological Sciences, Madurai Kamaraj University, Madurai, 28<sup>th</sup> February 2025 – 1<sup>st</sup> March 2025.

## Papers Presented in Seminar/ Symposia

- Paper presented on the topic “**Studies on Inductive conditions of somatic embryogenesis in *Cajanus cajan* (L.) Millsp. & Evaluation of catalase activity in the embryogenic callus cultures**” in National seminar on Conservation methods and Biopotential assessment of Biodiversity organized by Departments of Biochemistry and Microbiology, Sourashtra College, Madurai, 16.03.2016.

- Paper presented on the topic **“Comparative study on the induction of Somatic embryogenesis in Pigeon pea using different plant hormones”** in National seminar on Recent Advances in Biological Sciences organized by Departments of Biochemistry and Microbiology, Sourashtra College, Madurai, 21.09.2017.
- Paper presented on the topic **“*In silico* modeling of stat3- $\alpha$ : A therapeutic target in Multiple Myeloma”** in National conference on Recent advancements in Biomedical Techniques organized by Departments of Biological sciences and Electronics & Communication, K.S. Rangasamy College of Arts and Science, Tiruchengode, Namakkal, 01.03.2018.
- Paper presented on the topic **“Comparative analysis of phytoremediating capability of different plant species under zinc stress”** in International seminar on Analytical technologies in sustainable environment organized Departments of Biotechnology and Microbiology, Shri Sakthikailassh women’s college, Salem, 21.08.2019 & 22.08.2019.

#### Conference / Seminar/ Workshop/FDP Participated

- **One day faculty Development programme “Theme: Redefined role of Teachers”** organized by Sourashtra College, Madurai, 05.03.2016.
- **One day faculty Development programme on “Management of self – A holistic approach”** organized by Sourashtra College Alumni Association and Internal Quality Assurance Cell, Sourashtra College, Madurai, 29.08.2017.
- **National seminar on Bioentrepreneurship** organized by Department of Microbiology and Biotechnology, N.M.S.S.Vellaichamy Nadar College, Madurai, 23.02.2018.
- **Two day faculty Development programme (online mode) on “Virtual Teaching”** organized by Teaching Learning Centre, Coimbatore Institute of Technology, Coimbatore, 20.04.2020 and 21.04.2020.
- **Online course on “Vermiculture and Vermicompost technology”** organized by Arulmigu Palani Andavar arts college for Women, Palani and Dr.N.NT research foundation, Madurai, 11.05.2020-13.05.2020.
- **Five-day National level faculty Development programme (online mode) on “Techniques in enhancing Teaching & Learning skills”** organized by Internal Quality Assurance Cell, Idhaya college for women, Kumbakonam, 15.06.2020 – 19.06.2020.
- **One day international conference through online mode on “A Multilingual Programme on Indian Festival – Navarathiri Festival”** organized by departments of Tamil, Hindi, Sanskrit & English and Internal Quality Assurance Cell, Sourashtra College, Madurai, 22.10.2020.
- **UGC STRIDE Workshop on “Statistical data analysis and interpretation”** organized by Mizoram University, Aizawl, Mizoram dated from 13.01.2021 to 18.01.2021(online mode).
- **Two-day Workshop on Bioentrepreneurship** organized by Department of Microbiology Sourashtra College, Madurai, 18.10.2023 – 19.10.2023.
- **International Faculty Development Program on Emerging Trends in Medical Biotechnology** organized by the School of Life Sciences B S Abdur Rahman Crescent Institute of Science and Technology Chennai in association with the Indian Science Congress Association (Chennai Chapter) 23.09.2024 – 27.09.2024.
- **Two Weeks Hands on Workshop/FDP on Bioinformatics Unleashed: Exploring Sequences to Simulation** organized by School of Life Sciences, B.S. Abdur Rahman Crescent Institute of Science & Technology, Chennai, India, in association with Crescent Bioinformatics Association from 17.09.2024 to 01.10.2024.

- **International Online Short-Term Certificate Course on “VERMICOMPOSTING TECHNOLOGY– AN OVERVIEW” (Phase - I)** organized by the Department of Microbiology, Sacred Heart College (Autonomous), Tirupattur, Tamil Nadu, India in association with Biotechnology Society of Nepal (BSN) and Laboratory of Chemical and Biological Analysis (LAQB), Western Rio Janeiro State University (UEZO), Rio de Janeiro, Brazil from 14.10.2024 – 20.10.2024.
- **Virtual Faculty Development Program on Academia-Industry (AI) connect** organized by Department of Biotechnology, Bishop Heber College (Autonomous), Tiruchirappalli from 11.11.2024-15.11.2024.
- **Five Days Virtual Faculty Development Program on Research ethics, Integrity and Publication best practices** organized by Department of Biotechnology, St.Joseph’s College (Arts & Science) Kovur, Chennai from 17.02.2025-21.02.2025.
- **3 Day Faculty Development Program on Design Thinking** conducted by ICT Academy at The Madura College, Madurai from 24.02.2025 to 26.02.2025.

#### Lectures / Talks given

- Guest lecture delivered on topic **“Metagenomics”** to the students of department of Microbiology and Biotechnology, NMSSVN College, Madurai on 29.07.2017.
- Served as resource person for **“Hands on training on Bioinformatics Tools and Techniques”** organized by PG department of Biochemistry, NMSSVN College, Madurai on 14.12.2023.

#### Webinars participated

- Webinar on the topic of **“How to diagnose novel corona virus (COVID – 19)”** organized by Crescent Innovation Incubation Council dated on 04.05.2020.
- Webinar series on the topic of **"Exploring and understanding world pandemics"** organized by the Department of Microbiology, Ethiraj College for women, Chennai dated from 11.05.2020- 13.05.2020.
- International Webinar on the topic of **“Human trafficking and COVID-19”** organized by the Satyabama institute of Science and Technology, Chennai and International justice mission dated on 14.05.2020.
- International Webinar on the topic of **“COVID-19 vaccine development”** organized by the Department of Microbiology, Ayya Nadar Janaki Ammal College, Sivakasi dated on 15.05.2020.
- International Webinar on the topic of **"Ecotoxicological impacts of nanomaterials"** organized by Department of Biotechnology, Rajah Serfoji Govt. College, Thanjavur, dated on 26.06.2020.
- International Webinar Series on the topic of **“Recent advances in life sciences”** organized by the Department of Zoology, Sri Meenakshi Government Arts College for Women, Madurai dated from 08.07.2020 to 10.07.2020.
- National Level Webinar Series on the topic of **“Beekeeping and its impact on society”** organized by Department of Zoology & Eco club, Arignar Anna Government Arts College, Namakkal dated on 08.07.2020.
- Webinar on the topic of **“Post COVID-19: challenges and opportunities for the Indian pharmaceutical industry”** organized by Faculty of Pharmacy, Kalinga University, New Raipur dated on 10.11.2020.

- Five days international webinar series entitled **“Recent advancements in cancer research and therapy 2020”** organized by the department of Biotechnology (DBT Sponsored STAR Department), Ayya Nadar Janaki Ammal College, Sivakasi dated from 16.11.2020 to 20.11.2020.
- Webinar on **“Plant – environment interactions and sustainable production”** organized by Manipal School of Life Sciences, Manipal Academy of Higher Education, Manipal, Karnataka dated 10.02.2021.
- Webinar on **“Women empowerment”** organized by RRC and YRC, Sourashtra College, Madurai dated 11.03.2021.
- One day National Webinar on **“2D AND 3D animation”** organized by Department of Computer Science (SF), Sourashtra College, Madurai dated 24.04.2021.
- One day Virtual Seminar on **“Tackling environmental challenges for sustainable future”** organized by IQAC and Department of Botany, Sourashtra College, Madurai dated 05.06.2021.
- One day webinar on **“Chill out”** organized by internal quality assurance cell, Sourashtra college, Madurai dated 7.6.2021.
- Webinar on **“Cutting edge technologies in biotechnology”** organized by Department of Biotechnology, The Oxford College of Engineering, Bengaluru dated 21.06.2021 & 22.06.2021.
- National Level Webinar on **“Zoonotic diseases - prevention & control”** organized on the occasion of World Zoonoses Day by the Department of Zoology, Bharathi Women’s College, Chennai dated 06.07.2021.
- National Webinar on **“Trends in bio-entrepreneurship”** organized by Department of Biochemistry, The American College, Madurai on 01 September 2021.
- National level lecture series on **“Biotechnology and IPR”** organized by National centre for excellence (MHRD), Department of Biotechnology & IQAC, Thiagarajar college, Madurai dated 13.9.2021 & 14.9.2021.
- Webinar on **“Sustainable Agroforestry in High Value Bamboo Farming System”** organized by the Department of Agriculture-High Value Crops, Philippines dated 30.09.2024.

## Declaration

I, **Saranyadevi**, hereby declare that the details furnished above are true to the best of my knowledge.

**Saranyadevi A.R**