

## **Dr. KRISHNAGOWDU SARAVANAN**

**Co-Ordinator (Research and Development Council & Intellectual Property Rights Cell)**

**Assistant Professor- Post Graduate and Research Centre in Biotechnology**

**School of Life Sciences**

**Arignar Anna College (Arts & Science)**

**Krishnagiri – 635 115**

**Tamil Nadu, India**

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### **ACADEMIC QUALIFICATIONS**

- **Ph.D. in Biotechnology (Plant Molecular Biology and Biotechnology)**, Department of Biotechnology, Bharathiar University, Coimbatore, Tamil Nadu, India, 2024; **Highly Commented.**
- **Post Graduate Diploma in Cheminformatics**, DBT-Bioinformatics Centre, Bharathiar University, Coimbatore, Tamil Nadu, India, 2021 (83%).
- **M.Sc. in Biotechnology**, Department of Biotechnology, Bharathiar University, Coimbatore, Tamil Nadu, India, 2018 (76%).
- **B.Sc. in Biotechnology**, Department of Biotechnology, Arignar Anna College (Arts & Science), Krishnagiri, Tamil Nadu, India, 2016 (85%).

### **AREA OF RESEARCH INTEREST**

- Plant genetic engineering and genome editing for crop improvement (Plant Transgenic Technology)
- Abiotic stress management and crop improvement (Plant Bio-stimulants)
- Plant metabolic engineering (Secondary Metabolite Production)

### **PROFESSIONAL EXPERIENCE**

- **Assistant Professor**, Post Graduate and Research Department of Biotechnology, Arignar Anna College (Arts & Science), Krishnagiri, Tamil Nadu, India, 2024 – Present.
- **Scientist**, VitaCrop Technologies Pvt Ltd (Climate Crop Ltd., (Israel)), Center for Cellular and Molecular Platforms (C-CAMP), GKVK/NCBS campus, Bangalore - 560 065, Karnataka, India, 2024.
- **Project Assistant**, Department of Biotechnology, Bharathiar University, Coimbatore, Tamil Nadu, India, 2021-2024.
- **Project Fellow**, Department of Biotechnology, Bharathiar University, Coimbatore, Tamil Nadu, India, 2020.

### **ROLE AND RESPONSIBILITIES IN JOURNALS**

- **Editorial Board Member** in International Journal of Science, Engineering and Technology (IJSET: e-ISSN: 2348-4098).

- **Advisory Board Member** in European Journal of Pharmaceutical and Medical Research (EJPMR; ISSN 2394-3211).
- **Advisory Board Member** in World Journal of Pharmaceutical Research (WJPR; ISSN: 2277-7105).
- **Editor** of the edited book entitled “Recent Advancements in Plant Transformation Techniques” in Helmand Books, New Delhi, India.
- **Chief Editor** of the edited book entitled “Recent Trends and Techniques in Metabolic Engineering” in SR edu publications, Telangana, India.
- **Editorial Board Member** in IGI Global Scientific Publishing.
- **Editorial Advisory Member** in European Journal of Pharmaceutical and Medical Research (EPJMR: ISSN: 2394-3211).
- **Esteemed Reviewer and Member** in Indian Journal of Agricultural Research, Agricultural Reviews, Agricultural Science Digest, Legume Research.
- **Individual Research Blog** in Agricultural Research Communication Center (ARCC) Journals.
- **Reviewer** in Scientific Reports (e ISSN 2045-2322).
- **Reviewer** in Molecular Biology Reports (e-ISSN: 1573-4978).
- **Reviewer** in BMC Plant Biology (ISSN: 1471-2229).
- **Reviewer** in Discover Plants (ISSN:3005-1207).
- **Reviewer** in Plant Cell Reports (ISSN: 0721-7714)
- **Reviewer** in Scientific Reports (ISSN 2045-2322)
- **Reviewer** in The Science of Nature (ISSN: 1432-1904)
- **Reviewer** in Journal of Plant Sciences (JPS: e-ISSN: 2331-0731).
- **Reviewer** in Journal of Crop Improvement.
- **Reviewer** in Journal of Multidisciplinary Applied Natural Science (e-ISSN: 2774-3047).
- **Reviewer** in International Journal of Plant & Soil Science (ISSN: 2320-7035).
- **Reviewer** in Journal of Advances in Biology & Biotechnology (ISSN: 2394-1081).

## **ROLE AND RESPONSIBILITIES IN ACADEMICS**

- **IQAC Member**
- **NAAC Criterion - IX – Head (Binary Accreditation)**
- **Ph.D., Candidates Selection Committee Member (Biotechnology)** in Arignar Anna College (Arts & Science), Krishnagiri, Tamil Nadu, India.
- **End Semester Question Paper Setter and Scrutiny Member (Microbiology Board)** in Kamaraj College (Autonomous), Thoothukkudi, Tamil Nadu, India.
- **Question Paper Setter (M.Sc., Bioinformatics)**, Alagappa University, Karaikudi, Tamil Nadu, India.
- **Question Paper Setter (M.Sc., Bio-Medical Sciences)**, Bharathidasan University, Trichy, Tamil Nadu, India.

## AUTHORMETRICS (as on 03.04.2026)

Particulars	GoogleScholar (Since2021)	ResearchGate	Scopus	WebofScience
Citations	180	96	66	127
h-index	09	06	05	08
i10-index	09	-	-	-

## RESEARCH GUIDANCE

- **Qualified Faculty (Assistant Professor in Biotechnology) in Periyar University, Salem, Tamil Nadu, India.** (PU/R/CDC-9/Assistant Professor Qualification Approval/021988,021989/2024-2025. Date: 13.02.2025).
- **M. Sc.:** Completed – 15; On-going - 10
- **B.Sc.,** Completed – 13; On-going – Nil

## PROCESS/PRODUCT PATENT

### PUBLISHED:02

- **Title:**A Standardized Phytochemical Extraction and Nasal Inhalation Delivery System (Vapo-inhaler) of *Wrightia tinctoria* (Roxb.) R. Br. for Supportive Management of Viral and Non-Viral Respiratory Disorders Including SARS-CoV-2 Infection (**Application Number: 202541128916**).
- **Title:**A Standardized Phytochemical Nasal Inhaler Composition and Process thereof Derived from *Cissus Quadrangularis*(L.) for Respiratory Health Applications (**Application Number: 202641012386**).

## PROCESS/PRODUCT PATENT

### FILED:01

- **Title:**A Process for Producing Fly-Ash-Derived Sodium Silicate Nanoparticles for Rice Salinity Stress Mitigation (**Application Number: 202641038287**).

## DESIGN PATENT

### NATIONAL LEVEL (REGISTRED): 08

- **Title: Biowaste Conversion Microbes Kit** (Application No.: 457282-001).
- **Title: Multi-Chamber Diagnostic Device for Typhoid Agglutination Test**(Application No.: 472995-001).

- **Title: Design of a Quantum Dot-Based Diagnostic Chip for Rapid Pathogen Identification** (Application Number: 474806-001).
- **Title: Design of a Blue Light Transilluminator with Hexagonal Illumination Grid** (Application Number: 463056-001).
- **Title:Genome Editing Device for Precision Genetic Engineering Applications** (Application Number: 480448-001).
- **Title:Nano-Herbal Drug Delivery Systems for Enhanced Bioavailability** (Application Number: 486660-001).
- **Title:Design Configuration of a Portable Phytohormone Quantification Device** (Application Number: 483362-001).
- **Title:Nano-Dosha-Adaptive Biomedical Scaffold Device** (Application Number: 487627-001).

#### **NATIONAL LEVEL (FILED): 06**

- **Title: Smart Waste Management Robot with Integrated Display and Real- Time Alert System, (Application No.: 442193-001),** Status: Examination Report has been Generated, Online Reply Document Received (FER generated on 28/02/2025).
- **Title:Visual Design of an RNAi Screening Microarray Plate with Modular Well Patterns (Application Number: 465942-001).** Status: Examination Report has been Generated, Online Reply Document Received(FER generated on 14/11/2025).
- **Title: Design of a Portable Plant DNA Cloning Kit with Integrated Visual Workflow (Application Number: 468612-001).** Status: Examination Report has been Generated,Online Reply Document Received(FER generated on 26/11/2025).
- **Title:Plant protecting bio-interactive polymer film Manufacturing Apparatus (Application Number: 482150-001).** Status: Application Under Process (awaiting for Technical Examination).
- **Title:Personalized Herbal Formulation Recommendation Device(Application Number: 488449-001).** Status: Application Under Process (awaiting for Technical Examination).
- **Title:Portable Microfluidic Point-of-Care Blood Biomarker Testing Device (Application Number: 495539-001).** Status: Application Under Process (awaiting for Technical Examination).

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#### **INTERNATIONAL LEVEL (CANADA): GRANTED: 01**

- **Title: Exogenous application of arginine enhances salinity stress tolerance in maize (*Zea mays* L.)** (Application Number: 1235011).

## NATIONAL LEVEL: GRANTED: 06

- **Title:** Methodology for Preparation of *Lantana camara* Linn. (Invasive Weed) Flower Extract and Its Treatment Procedure for Promoting Soybean (*Glycine max* (L.) Merrill) Growth, (Application No. 41584/2024-CO/L).
- **Title:** Cabbage Waste Extract Preparation and Treatment Protocol for Soybean (*Glycine max* (L.) Merrill) and Maize (*Zea mays* L.) Growth Enhancement, (Application No.: 482/2025-CO/L).
- **Title:** Protocol for preparation of Fermented *Lantana camara* Linn. (invasive weed) flower extract and it's growth promotion activity in agricultural crops, (Application No.: 8250/2025-CO/L).
- **Title:** Exogenous Application of *Stachytarpheta jamaicensis* (Invasive Weed) Extract Improves Soybean (*Glycine max*) Growth and Development, (Application No.: 8252/2025-CO/L).
- **Title:** Protocol for development of bio-stimulant from flower and fruit wastes extract for plant growth promotion and diseases resistance in agricultural and forestry crops (LD-26732/2025-CO).
- **Title:** Extraction, screening, and identification of secondary metabolites from *Mesosphearum suaveolens* (L.) Kuntze (Application No. LD-20108/2025-CO).

## NATIONAL LEVEL: FILED:01

- **Title:** Computer Software: BioTeckDeck (Application No. SW-21768/2025-CO).

**Books:** Authored Books: 07; Edited Books:05

**Book Chapter:** Published: 18; Accepted: 02

**Journal Publications:** Published: 27; Accepted: 02

**Conference Proceedings:**33

**Programme Organized:** 02

## HONORS AND AWARDS

- **Young Scientist Award**, Biotechnology Scientist Awards– 2025.
- **Future Leaders Industry Excellence Award – 2025**, 29<sup>th</sup> Edition of International Young Scientist Awards, Scifax Technology and Publishing Private Limited.
- **Best Young Faculty Award – 2025**, Adhiyamaan College of Agriculture and Research, Krishnagiri– 635105.
- **YoungScientist – 2024**, IndianSocietyofAgriculturalScienceand Technology

for Rural Empowerment, Deosugur, Raichur-584 170, Karnataka, India.

- **Young Budding Scientist – 2024**, Vivekananda College of Arts & Sciences for Women (Autonomous), Sankagiri, Salem, Tamil Nadu, India.
- **Young Agriculture Research Scholar Award – 2022**, Society for Ecological Sustainability, Odisha, India.
- **DST-INSPIRE – 2010**, Department of Science and Technology, New Delhi, Government of India.
- **Best Paper Presentation Award – 2025 and Best Young Investigator Award-2025**, National Conference on Eco - responsible Farming to Sustain Natural Resources and Environment- 2025, organized by Adhiyamaan College of Agriculture and Research, Krishnagiri- 635105.
- **Best Poster Presentation Award (1<sup>st</sup> Prize) – 2024**, National Conference on Novel Strategies for Mitigating Biotic and Abiotic stresses for Agricultural and Environmental Sustainability organized by ICAR-National Institute of Biotic Stress Management, Raipur, Chhattisgarh, India.
- **Best Paper Presentation Award (2<sup>nd</sup> Prize) – 2023**, National conference in Environment and Ecology, organized by Department of Environmental Sciences, Bharathiar University, Coimbatore, Tamil Nadu, India.
- **Best E-Poster Presentation Award (1<sup>st</sup> Prize) – 2021**, India International Science Festival (IISF-2021), outreach Program at CSIR-CLRI for student (Ideas @ 75 for Sustainable Development Goals), CSIR- Central Lather Research Institute, Chennai, Tamil Nadu, India.

**Invited Talks and Resource Person Talk: 25**

**Krishnagowdu Saravanan**  
**07.04.2026**