Faculty Profile of Dr. R. Sathishkumar

Dr. R. Sathishkumar
Professor & Head
Department of Biotechnology

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Research Area

PLANT GENETIC ENGINEERING LABORATORY

► Plant Metabolic Engineering ► Plant Molecular Farming ► Plant DNA Barcoding

Education & Career

Education

Doctor of Philosophy (Ph.D.)
Subject: Plant Sciences
Institution: Madurai Kamaraj University
Affiliated University: Madurai Kamaraj University, Madurai, India
Year of Award: 1998

Master of Philosophy (M.Phil.)
Subject: Botany
Institution: Pondicherry University, Pondicherry, India
Affiliated University: Pondicherry University, Pondicherry, India
Year of Award: 1991

Master of Science (M.Sc.)
Subject: Botany
Institution: Madras Christian College, Chennai, India
Affiliated University: Madras University
Year of Award: 1990

Bachelor of Science (B.Sc.)
Subject: Botany
Institution: Loyola College, Chennai, India
Affiliated University: Madras University
Year of Award: 1988

Career

At Bharathiar University (Reverse Order)

Professor: 21.04.2018 to Till Date
Associate Professor: 21.04.2015 to 20.04.2018
Assistant Professor: 20.04.2005 to 20.04.2015

Past Experience

Post-Doctoral Researcher: 01.02.1999 to 15.04.2005 at the Department of Botany, The University of Hong Kong, Hong Kong

Awards

Travel Awards

Funding agency : Centre for International Cooperation in Science.
Name of conference : 3rd International Barcode of Life Conference.
Paper presented(Oral/Poster) : Oral presentation.
Title of paper : Conventional and novel DNA barcoding for Apocyanaceae.
Country : Mexico.
Date of Award : Nov. 7–13, 2009.

Funding agency : Centre for International Cooperation in Science.
Name of conference : 5th International Barcode of Life Conference.
Paper presented(Oral/Poster) : Oral presentation.
Title of paper :Development of a Standard Reference Material (SRM) DNA Barcode Library for Herbal Product Authentication.
Country : China.
Date of Award : Nov. 7–13, 2013.

Funding agency : The Chinese University of Hong Kong.
Name of conference : 2nd International conference on DNA technology for authentication, quality control and conservation of herbal material.
Paper presented(Oral/Poster) : Oral presentation.
Title of paper : Biological authentication of natural Indian honey samples..
Country : Hong Kong.
Date of Award : Dec. 2-5, 2018.

Academic Awards

- **INTERNATIONAL**
- **NATIONAL**

Awarding agency : St. George’s University of London.
Purpose of award : Academic Visitor.
Country : United Kingdom.
Date of Award : 18.06.2008.

Awarding agency : St. George’s University of London.
Purpose of award : Academic Visitor.
Country : United Kingdom.
Date of Award : 28.06.2010.

Awarding agency : King’s College.
Purpose of award : Animals (Scientific Procedures) course for experimental animal handling procedure.
Country : United Kingdom.
Date of Award : 03.03.2008.

Awarding agency : International biographical centre.
Purpose of award : Top 100 Scientists 2015 - Nominated for recognition by the International Biographical Centre.
Country : England.
Date of Award : 09.10.2015.

Awarding agency : Technologico de Monterrey, Queretaro, Mexico.
Purpose of award : Academic Leader program - as an expert in Plant Biotechnology.
Country : Mexico.
Date of Award : 21.09.2018 – 30.09.2018.

Awarding agency : Elsevier.
Purpose of award : The Netherlands.
Country : Awarded the Outstanding Contribution in reviewing the editors of Journal of Ayurveda and Integrative Medicine.
Date of Award : Sept., 2017.

Awarding agency : Central Pollution Control Board.
Purpose of award : Best Report on Heavy metal pollution and its effects on human health and remedial measures.
Country : India.
Date of Award : 04.03.1991.

Awarding agency : Madurai Kamaraj University.
Purpose of award : Awarded the best poster at National level, during the annual meeting of the “Society of Biological Chemists”.
Country : India.
Date of Award : 19.12.1994 – 22.12.1994.

Awarding agency : Central Food Technological Research Institute.
Purpose of award : Awarded the best poster at National Symposium on “Recent Advances in Biotechnological Applications of Plant tissue culture and

Cell culture".
Country : India.
Date of Award : 22.06.1995 – 24.06.1995.

Awarding agency : Madurai Kamaraj University.
Purpose of award : Awarded third prize in poster competition in "National Science Day Celebrations".
Country : India.
Date of Award : 28.02.1995.

Academic fellowships for training

Name of faculty : Dr. R. Sathishkumar.
Awarding agency : Deutsche Academic Exchange Service (DAAD).
Purpose : Short-term Research Fellowship.
Country : Germany.
Duration : Aug. 1996 – Jan. 1997.

Name of faculty : Dr. R.Sathishkumar.
Awarding agency : Department of Science and Technology Government of India.
Purpose : Junior Research Fellowship.
Country : India.
Duration : 1992- 1994.

Name of faculty : Dr. R.Sathishkumar.
Awarding agency : Council of Scientific and Industrial Research, Government of India.
Purpose : Senior Research Fellowship.
Country : India.
Duration : 1994 - 1997.

Name of faculty : Dr. R.Sathishkumar.
Awarding agency : Council of Scientific and Industrial Research, Government of India.
Purpose : Research Associate.
Country : India.
Duration : 1998.

Name of faculty : Dr. R.Sathishkumar.
Awarding agency : Academy of Sciences, Chennai, TN.

Purpose : Elected as Fellow for Appreciation of the scientific contributions in the field.
Country : India.
Duration : 2015.

Membership

Professional Bodies

Organization : Society of Biochemists, Life Member, India.
Type of Membership :Life Member
Period : Since 2008

Organization :New York Academy of Sciences, USA.
Type of Membership :Member
Period :Since 1998

Organization : International Association of Plant Biotechnology, USA.
Type of Membership :Member
Period : Since 2008

Organization : Barcode of Life Community Network, USA.
Type of Membership :Member
Period : Since 2009

Organization : Centre for Plant Health, Australia.
Type of Membership :Member
Period : Since 2009

Organization :Asian Council of Science Editors, UAE.
Type of Membership :Member
Period : Since 2015

Organization : NHP Research Alliance, University of Guelph, Canada.
Type of Membership :Strategic member
Period : Since 2018

Organization : Academy of Sciences, Chennai, India.
Type of Membership :Nominated member
Period : Since 2015

Organization : International Society for Plant Molecular Farming.
Type of Membership :Member

Period : Since 2019

Academic Bodies

Organization : Sri Krishna Arts and Science College, Coimbatore.
Type of Membership :Academic council Member
Period : 2017-18

Organization : S.R.M.V college of Arts and Science, Coimbatore.
Type of Membership :Academic council Member
Period : 2017

Organization : Kovai Kalaimagal College of Arts and Science, Coimbatore.
Type of Membership :Academic council Member
Period : 2017-18

Organization : Erode Arts and Science, Erode.
Type of Membership :Academic council Member
Period : 2016-18

Organization : NGM College, Pollachi.
Type of Membership :University nominee for result passing board
Period : 2018

Organization : BU University Departments.
Type of Membership :Chairperson of BOS
Period : 2018-20

Organization : Research, Bharathiar University.
Type of Membership :Member of BOS
Period : 2017-19

Organization : Biotechnology Department, Bharathiar University.
Type of Membership :Member of BOS
Period : 2017-18

Organization : Erode Arts and Science College.
Type of Membership :Member of BOS
Period : 2018-19

Organization : Kongu Arts and Science College, Erode.
Type of Membership :Member of BOS

Period : 2018-19

Organization : Madurai Kamaraj University, Madurai.
Type of Membership :Member of BOS
Period : 2019-20

Organization : PSG College of Arts and Science, Coimbatore.
Type of Membership :Member of BOS
Period : 2017-19

Organization : Kongu Nadu Arts and Science College, Coimbatore.
Type of Membership :Member of BOS
Period : 2016-20

Organization : Standard Fireworks Rajarathinam College for Women, Sivakasi.
Type of Membership :Member of BOS
Period : 2018-19

Organization : CMS College, Coimbatore.
Type of Membership :Member of BOS
Period : 2016-20

Organization : R.V.S college, Coimbatore.
Type of Membership :Member of BOS
Period : 2016-20

Organization : Karpagam University, Coimbatore.
Type of Membership :Member of BOS
Period : 2016-20

Organization : Kovai Kalaimagal College of Arts and Sciences, Coimbatore.
Type of Membership :Member of BOS
Period : 2018-19

Organization : Alagappa University, Karaikudi.
Type of Membership :Member of BOS
Period : 2016-20

Organization : GRD College of Arts and Science, Coimbatore.
Type of Membership :Member of BOS
Period : 2018-20

Organization : Hindusthan College of Arts and Science, Coimbatore.
Type of Membership :Member of BOS
Period : 2016-20

Organization : Nehru Arts and Science College, Coimbatore.
Type of Membership :University Nominee in BOS
Period : 2017-19

Organization : S.N.R Sons College, Coimbatore.
Type of Membership :Member of BOS
Period : 2017-19

Organization : Nehru Memorial College, Puthanampatti, Tiruchirappalli District.
Type of Membership :Member of BOS
Period : 2018-20

Organization : Periyar University, Selam.
Type of Membership :External Member for BOS
Period : 2019-22

Organization : Rathinavel Subramaniam College of Arts and Science, Coimbatore.
Type of Membership :Member of BOS
Period : 2019-22

Organization : Thiruvalluvar University, Serkkadu, Vellore.
Type of Membership :Chairman of BOS
Period : 2020-23

Organization : JSS Academy of Higher Education and Research, Mysuru, Karnataka.
Type of Membership :Member of BOS
Period : 2020-22

Organization : Karunya University, Department of Biotechnology, Coimbatore, Tamil Nadu.
Type of Membership :Academic Audit Member
Period : 2Since 2015

Organization : P.S.G College of Arts and Science, Coimbatore, Tamil Nadu.
Type of Membership :Academic Audit Member
Period : Since 2015

Organization : Jamal Mohammed College, Trichy, TN.
Type of Membership :Academic Audit Member
Period : Since 2015

Visits

Country Visited : Hong Kong
Duration of Visit : 6 years
Month and Year : Feb. 1999 – Apr. 2005
Purpose of Visit : Post-Doctoral Researcher.

Country Visited : UK
Duration of Visit : 1 year
Month and Year : Jun 27, 2007 – Jun 20, 2008
Purpose of Visit : Staff Exchange programme under UGC-UKIERI Project.

Country Visited : UK
Duration of Visit : 1 month
Month and Year : Mar. 2008
Purpose of Visit : Course conducted by King’s College, London, UK for experimental animal handling procedure .

Country Visited : Mexico
Duration of Visit : 1 week
Month and Year : Nov. 7–13, 2009
Purpose of Visit : Oral presentation in the 3rd International Barcode of Life Conference.

Country Visited : UK
Duration of Visit : 1 month
Month and Year : Jun 1 – Jun 29, 2010
Purpose of Visit : Indo-US Science & Technology Fellowship.

Country Visited : China
Duration of Visit : 1 week

Month and Year : Nov. 7-13,2013
Purpose of Visit : Oral presentation in the 5th International Barcode of Life Conference.

Country Visited : Portugal
Duration of Visit : 1 day
Month and Year : Jun. 30, 2015
Purpose of Visit : “Indo-Portugal Workshop at ICAAM” held at University of Evora.

Country Visited : Hong Kong
Duration of Visit : 1 week
Month and Year : Feb 27 – Mar 1, 2016
Purpose of Visit :Oral presentation in International conference on DNA technology for authentication, quality control and conservation of herbal material.

Country Visited : Mexico
Duration of Visit : 10 days
Month and Year : Sept 21st to 30th, 2018
Purpose of Visit : Academic Leader program, invited by Technologico de Monterrey, Queretaro, Mexico, as an expert in Plant Biotechnology.

Country Visited : Hong Kong
Duration of Visit : 4 days
Month and Year :Dec. 2-5, 2018
Purpose of Visit : Oral presentation in 2nd International conference on DNA technology for authentication, quality control and conservation of herbal material.

Country Visited : UK
Duration of Visit : 10 days
Month and Year : Jun 1-10, 2019
Purpose of Visit : To visit St. Georges University of London and discuss with Prof. Julian Ma regarding on-going UGC-UKIERI – III Project.

Country Visited : Latvia
Duration of Visit : 3 days
Month and Year : Jun 10- 12, 2019
Purpose of Visit : Oral presentation in Plant Based Vaccines, Antibodies and Biologics at University of Latvia, Riga, Latvia.

Country Visited : Norway
Duration of Visit : 4 days
Month and Year : Jun 17-20, 2019
Purpose of Visit : Oral presentation in 8th International Barcode of Life Conference at Clarion Hotel and Congress, Trondheim, Norway.

Collaborations

- International
- National

1. Professor Julian K-C. Ma
PhD, BDS FDSRCS(Ed) Director, Institute for Infection and Immunity
Hotung Chair of Molecular Immunology
St. George's Hospital Medical School
Cranmer Terrace
London SW17 0RE, UK

2. Professor. habil. Birgit Arnholdt-Schmitt
Coordinating Investigator
EU Marie Curie Chair
University of Évora
Apart. 94
7002-554 Évora, Portugal

3. Dr. HeliaCardosa
Laboratory of Molecular Biology
University of Évora, ICAAM
Polo da Mitra, Apartado 94
7002-554 Évora, Portugal

4. Professor. Steven G. Newmaster
Botanical Director
Biodiversity Institute of Ontario (BIO)
Department of Integrative Biology
Centre for Biodiversity Genomics
University of Guelph
Guelph, Ontario, Canada N1G 2W1

5. Dr. S. Ragupathy
Chief Curator, BIO-Herbarium
Department of Integrative Biology

Center for Biodiversity Genomics
University of Guelph
Guelph, Ontario, Canada N1G 2W1

1. Prof. N. Senthilkumar
Head
Department of Biotechnology
Mizoram University
Aizawl, Mizoram - 796004

2. Dr. S. Sudhakar
Professor and Head
Department of Botany
Manonmaniam Sundaranar University
Tirunelveli 627 012

3. Dr. M. Ramesh
Associate Professor
Department of Biotechnology
Alagappa University
Karaikudi –630 003 Tamil Nadu

4. Dr. Modhumita Dasgupta
Scientist E
Institute of Forest Genetics and Tree Breeding
B-33, Forest Campus, R.S. Puram, Coimbatore-641002

Others

Invited and Guest Lectures Delivered in Various Capacities

1.Refresher Course in Bioinformatics and Biotechnology Human Genome Project and its Implications Academic Staff College, Bharathiar University, Coimbatore Nov 1-21, 2006 Invited Lecturer

2.Refresher Course in Biological Sciences Green Factories Academic Staff College, Bharathiar University, Coimbatore Nov 10- 30, 2006 Invited Lecturer

3.M.Phil. Distance Education Plant Biotechnology Alagappa University, Karaikudi Nov 26, 2006 Invited Lecturer

4.National Seminar on New Frontiers in Biological Sciences DNA Barcoding Department of Botany, Holy Cross College, Tiruchirappalli Jan 19-20, 2007 Invited Lecturer

5.One day in-house Seminar Series in Microbial Technology, Department of Microbiology Development of a Recombinant Vaccine in Transgenic Plants Dr. G. R. Damodaran College of Science, Coimbatore Sept 16, 2008 Invited Lecturer

6.National Symposium on Herbal Drug Research Vaccine Producing Plant Factories Department of Botany, Bharathiar University, Coimbatore Sept 26-28, 2008 Invited Lecturer

7.National Conference on Advance Trends in Biotechnology Plant DNA Barcoding - Problems and Prospects Department of Biotechnology, Dr. NGP Arts and Sciences College, Coimbatore Dec 19-20, 2008 Invited Lecturer

9.Staff Development Programme on Role of Biomarker in Environment and Biodiversity Maintenance Plant DNA Barcoding: A Case Study Department of Biotechnology, Periyar Maniammai University, Thanjavur Jun 9-23, 2009 Invited Lecturer

10.National Conference on Advancement in Transgenic Technology Genetic Engineering for Cold Tolerance Vivekananda College of Arts and Sciences for Women, Tiruchengode Sept 23-25, 2009 Invited Lecturer

11.Refresher Course in Zoology DNA Barcoding- International Effort Academic Staff College, Bharathiar University, Coimbatore Nov 8 – 29, 2010 Invited Lecturer

12.Refresher Course in Botany Plant DNA Barcoding Academic Staff College, Bharathiar University, Coimbatore Nov 8 – 29, 2010 Invited Lecturer

13.Alumni Meet and Seminar Plant Molecular Farming: Advantages and challenges Loyola College, Chennai Feb. 14th 2011 Invited Lecturer

14.Seminar Plant Molecular Farming Dr. NGP College, Coimbatore Mar 4, 2011 Invited Lecturer

15.M.Sc. Refresher Course Plant DNA Barcodes Avinashilingam University, Coimbatore May 18th 2011 Invited Lecturer

16.DBT sponsored short term training course Agrobacterium-mediated Gene Transfer Saraswathi Narayanan College, Madurai Nov 30th 2011 Invited Lecturer

17.National Seminar of Enzymes and Biocatalysis, The Versatile Actors: Current Trends and Future Perspectives Metabolic engineering of vitamin E Biosynthetic Pathway: Transgenic and Non- transgenic approach Periyar University, Salem Jan 5 – 6, 2012 Invited Lecturer

18.Two day National conference on "Recent Advances in Plant Biotechnology: Towards Next Green Revolution" Genetic Engineering of Plants for Cold Tolerance Bharathidasan University, Trichirappalli Feb 9-10, 2012 Invited Lecturer

19.Seminar Plant Biotechnology VHNSN College, Virudhunagar Feb 21st, 2012 Invited Lecturer

20.One Day Seminar on Structural and Functional Genomics Plant Molecular Farming: A Production Platform for High Value Proteins School of Biotechnology, Madurai Kamaraj University, Madurai Mar 27, 2012 Invited Lecturer

21.Winter School on Plant Genetic Engineering Plant Genetic Engineering Madurai Kamaraj University, Madurai Sept 3, 2012 Invited Lecturer

22.Indo-South Africa workshop on Traditional Medicine System: Sharing Knowledge and Experience DNA Barcoding of Indigenous Medicinal Plants JSS College of Pharmacy, Udhagamandalam Oct 29-31, 2012 Invited Lecturer

23.DBT sponsored short-term training course Plant Made Pharmaceuticals Department of Plant Biology and Biotechnology, Loyola College, Chennai July 26, 2013 Invited Lecturer

24.National Seminar on Frontiers in Biotechnology Recent Advances in Plant Molecular Pharming Nehru Memorial College, Puthanampatti, Tiruchiappalli Aug 8-9, 2013 Invited Lecturer

25.5th International Barcode of Life Conference Development of a Standard Reference Material (SRM) DNA Barcode Library for Herbal Product Authentication Kunming, China Nov 7-13, 2013 Invited Lecturer

26.Training Programme in Research Methodology Gene Transfer Methods in Plants Department of Zoology, Bharathiar University, Coimbatore Jan 21-24, 2014 Invited Lecturer

27.One day Symposium on “Biotechnological Innovations Towards Global Development” GM Crops for Future Vellalar College for Women, Erode Feb 27, 2014 Invited Lecturer

28.National Seminar on Biodiversity – Status, Conservation and Management DNA Barcoding: A Tool for the Conservation of Biodiversity Kongu Nadu Arts and Science College, Coimbatore Mar 7-8, 2014 Invited Lecturer

29.Seminar Principles, Techniques and Application of Gene Modifications PSG college of Technology, Coimbatore July 12, 2014 Invited Lecturer

30.Seminar Plant Metabolic Engineering Department of Biochemistry, PSG College of Arts and Science, Coimbatore Sept 15, 2014 Invited Lecturer

31.Science Academies Lecture Workshop on Biological Sciences; Research Prospects and Application DNA Barcoding and its Application Department of Biotechnology, Karpagam University, Coimbatore Sept 25, 2014 Invited Lecturer

32.Science Academies Lecture Workshop Science Academies Lecture Workshop on Recent Trends in Biological Sciences Department of Biochemistry, Dr.NGP College of Arts and Sciences. Coimbatore Oct 6, 2014 Invited Lecturer

33.Seminar Metabolic Engineering of Vitamin E pathway in Plants PSGR Krishnammal College for Women Dec 31, 2014 Invited Lecturer

34.Seminar Plant Molecular Farming TNAU, Coimbatore Feb 26, 2015 Invited Lecturer

35.Science Academies Lecture Workshop on Emerging Trends in Bioprospecting Plant Molecular Farming: A Case Study Department of Microbiology, Hindustan College of Arts and Science, Coimbatore Mar 19th 2015 Invited Lecturer

36.8th Medical Arthropodology National Conference Vector – borne Diseases: Burden, Surveillance and Control Department of Biotechnology, Manomaniam Sundaranar University, Tirunelveli Mar 26th 2015 Invited

Lecturer

37.National Seminar on “Insight to Futuristic Bioscience What is Systems Biology? Hindusthan College of Arts and Science, Coimbatore Jan 29th 2016 Invited Lecturer

38.National Seminar on Paradigms of Plant Microbe Interactions Paradigms of Plant Microbe Interactions Department of Biotechnology, Mepco Schlenk Engineering College, Sivakasi Feb 26th 2016 Invited Lecturer

39.Science Academies Lecture Workshop on New Frontiers in Plant Sciences and Biotechnology Plant Metabolic Engineering Nehru Memorial College, Puthanampatti, Coimbatore Mar 4, 2016 Invited Lecturer

40.PG Botany Club Herbal Product Authentication by DNA Barcodes Madras Christian College, Chennai Apr 2nd 2016 Invited Lecturer

41.International conference on Recent Trend in Biosciences Plant Expression System for the Production of Recombinant Pharmaceutical Proteins Alagappa University, Karaikudi Apr 7 – 9, 2016 Invited Lecturer

42.DBT & ICMR Sponsored National Conference on Transitional and Translational Scenarios in Biological Sciences Transitional and Translational Scenarios in Biological Sciences Department of Microbiology, Dr.N.G.P. Arts and Science College, Coimbatore Sept 9-10, 2016 Invited Lecturer

43.Plants Club –Palmyra by UGC-XII Plan Plant Metabolic Engineering Dept. of Plant Science, Manonmaniam Sundaranar University, Tirunelveli Feb 18, 2017 Resource Person

44.UGC-HRDC, Refresher Course Life Sciences Molecular Pharming & DNA Barcoding Department of Botany, Bharathiar University, Coimbatore July 6, 2017 Resource Person

45.Science Academic Lecture Workshop on DNA Technologies in Revisiting Biology DNA Technologies in Revisiting Biology Dr.N.G.P Arts and Science College, Coimbatore July 28, 2017 Invited Lecturer

46.Symposium on “Cross-talk in Omics” Rapid Production of Therapeutic Proteins from Plant System Dept. of Bioinformatics, Pondicherry University Aug 9, 2017 Invited Lecturer

47.National Conference on Plant-based Drug – Biotechnological Implications Manipulation of Vitamin E Biosynthetic Pathway – Use of Transgenic and Cell Cultures Dept. of Biotech, Karpagam University, Coimbatore Aug 10, 2017 Invited Lecturer

48.DBT sponsored Workshop Crop Genome Editing using CRISPR/Cas9 Department of Plant Biology and Biotechnology, Loyola College, Chennai Sept 8, 2017 Resource Person

49.Refresher Course in Bio-Sciences DNA Barcoding in Plants UGC-HMRD, Bharathidasan University, Trichy Oct 30, 2017 Resource Person

50.DBT Sponsored short-term training course on Basic Techniques in Plant and Animal Tissue culture for Mid-career Scientists and Teaching Faculty Agrobacterium mediated gene transfer methods Dept. of Biotechnology, Hindusthan College Arts and Science, Coimbatore Nov 11, 2017 Resource Person

51.DBT –short term training course on Analytical Techniques in Bio-prospecting of Medicinal Plants Analytical Techniques in Bio-prospecting of Medicinal Plants Dept. of Botany, Bharathiar University Oct 23 – Nov 08, 2017 Resource Person

52.UGC-HRDC, Refresher Course in Biotechnology DNA Barcoding-a technology revolution Bharathiar University Nov 17, 2017 Resource Person

53.National Skill Enhancement Workshop on ‘DNA to Phylogeny’ ‘DNA to Phylogeny’ Department of Biosciences & Technology, Karunya Institute of Technology and Sciences, Coimbatore Jan 8-10, 2018 Resource Person

54.UGC sponsored refresher course in Biosciences DNA barcoding Bharathiar University, Coimbatore Jan 29, 2018 Resource Person

55.National Seminar on Recent Innovations in Plant Science for Sustainable Agricultural Development Plant Metabolic Engineering Kongu Nadu Arts and Science College, Coimbatore Feb 21, 2018 Invited Lecturer

56.Two days’ workshop cum hands-on training in ‘Immuno techniques’ Immunotechniques Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore Mar 5-6, 2018 Resource Person

57.Indian Science Academy Refresher course on ‘Biotechnology techniques in Biodiversity conservation’ Plant DNA Barcoding Department of Botany, Bharathiar University, Coimbatore Sept 17, 2018 Invited Lecturer

58.Science academies’ Refresher course on “Known to unknown techniques in biology” DNA Barcoding for authentication of herbal plants and products PG & Research Department of Botany, St. Joseph’s college, Tiruchirappalli Nov 14, 2018 Invited Lecturer

59.2nd Residential course on “Phytopharmaceutical and herbal drugs monograph drafting, verification and validation” Plant molecular Farming Indian Pharmacopoeia Commission, Ministry of Health & Family Welfare, Government of India, Ghaziabad April 22-26, 2019 Invited Lecturer

60.“FIRST CONCLAVE OF DBT-TWAS FELLOWS: Achievement of Capacity Building in Developing Nations” - Hotel Turyaa, Chennai Aug 8-9, 2018 Invited Lecturer

61.Refresher course in Botany Plant DNA barcoding UGC-Human Resource development Center, Bharathiar University, Coimbatore Sept 16, 2019 Invited Lecturer

62.Five days workshop entitled “National Workshop on Advanced trends in Marine Macro Algal Taxonomy, Cultivation & Utilization” Molecular tools in Algal Taxanomy BSI, SRC, TNAU campus, Coimbatore Oct 21-25, 2019 Invited Lecturer

63.DST CURIE sponsored “Research Convention on Fundamentals for Scholor Friendly Quality Research” The art of writing good project proposals Avinashilingam institute for home science and higher education for women, Coimbatore Nov 15-16, 2019 Invited Lecturer

64.“International conference on innovative and emerging trends in botany-2019” sponsered by RUSA phase II & DST PURSE phase II Plant DNA Barcoding – a versatile tool Department of botany, Alagappa university, Karaikudi Nov 6th – 7th , 2019 Invited Lecturer

65.Structure, Function and Design of Biomolecules - Structural Biology Lab, Department of Bioinformatics, School of Life Sciences, Bharathiar University, Coimbatore Jan 28-29, 2010 Session Chair Person

66.National Conference on Herbal Medicine - Department of Botany, School of Life Sciences, Bharathiar University, Coimbatore Sept 8-9, 2010 Session Chair Person

67.National seminar on Frontiers in Biotechnology - Department of Biotechnology, Bharathiar University, Coimbatore Feb 18-19, 2016 Session Chair Person

68.2nd International Conference on Environment and Ecology - Department of Environmental Science, Bharathiar University, Coimbatore Mar 7-9, 2016 Session Chair Person

69.One day National Level Symposium, Biogalaxia - Department of Microbial Biotechnology, Bharathiar University, Coimbatore Oct 6, 2016 Session Chair Person

70.One day National Symposium - Dept. of Microbial Biotechnology, Bharathiar University Oct 6, 2016 Judge for Oral Presentation

71.8th Annual Research Congress (KUARC) - Karpagam University, Coimbatore Dec 3, 2016 Session Chair Person

72.Scientific Session in the International Conference on Phytomedicine - Department of Botany, Bharathiar University, Coimbatore Aug 29-31, 2018 Session Chair Person

73.National Seminar on “Computer Genomica Tools for Next Generation Sequencing And Biomedical Data Analysis” - DBT Bioinformatics Centre and Department of Bioinformatics, Bharathiar University, Coimbatore Feb 8, 2019 Judge for Poster Presentation

74.Phrastafest – 2019 Plant DNA Barcoding Department of Botany, St. Joseph’s College,

75.Tiruchirappalli Feb 12, 2019 Guest lecturer

76.2nd National Conference on “Current Trends in Biological Sciences” - Department of Botany, St. Xavier’s College (Autonomous), Palayamkottai Feb 6-7, 2020 Resource Person

77.State level Seminar on Trends in Plant Bioprocessing Metabolic Engineering in Plants for Commercial Applications Department of Botany, Vivekananda College, Tiruvedakam West, Madurai Feb 25, 2020 Invited

Lecture

78.Refresher course in Botany Plant DNA Barcoding: An overview Bharathiar University, Coimbatore May 20th 2011 Invited Lecturer

Projects

Funded Projects(National Level)

- Ongoing - 03
- Completed - 15

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1. RUSA 2.0 – BEICH

Title of the Project: Development of Superior Wheat with High Resistance Starch and Low-Gluten by Allele Mining.
Agency: RUSA 2.0 – BEICH
Period: 2019-2020
Amount: Rs.6.50 Lakh
Investigator: Principle Investigator

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2. UGC

Title of the Project: Centre for Potential for Excellence in a Particular Area (UGC-CPEPA) on Solar Energy for the Development of Bio-nano Hybrid Protein-Sensitized Solar Cells.
Agency: UGC- CPEPA. (GOI)
Period: 2017-2020
Amount: Rs.354 Lakh
Investigator: Principaal Investigator

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3. UGC

Title of the Project: Cost-effective Production of Engineered Antibodies for Early Differential Diagnosis of Dengue and Chikungunya Infection.

Agency: UGC-UKIERI Joint Research Programme
Period: 2018-2020
Amount: Rs.30 Lakh
Investigator: Principal Investigator

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4. DST

Title of the Project: Cell Death Induced by Combination of Photodynamic Therapy with Phytochemicals Isolated from *Vaccinium nilgiriensis* on Breast Cancer Therapy - an *in vitro* Approach.
Agency: DST, Indo-South Africa
Period: 2016-2019
Amount: Rs.30.84 Lakh
Investigator: Principal Investigator

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5. DST

Title of the Project: Study of DcAOX Gene Functionality Associated with Cell Reprogramming Under Abiotic Stress.
Agency: DST, Indo-Portugal
Period: 2014-2017
Amount: Rs. 5.5 Lakh
Investigator: Principal Investigator

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6. UGC

Title of the Project: *In vivo* and *in vitro* Studies of Plant-expressed Recombinant Antigens and Antibodies against Chikungunya Virus.
Agency: UGC-UKIERI Joint Research Programme
Period: 2015-2016
Amount: Rs. 30 Lakh
Investigator: Principal Investigator

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7. DBT

Title of the Project: DNA Barcoding to Study the Honey Biodiversity in Mizoram funded by the Department of Biotechnology.
Agency: DBT-NER Twinning Programme
Period: 2015-2018
Amount: Rs. 70 Lakh
Investigator: Principal Investigator

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8. DRDO-BU

Title of the Project: Development of Plant-Based Recombinant Vaccine for *Staphylococcus* Super Antigens.
Agency: DRDO-BU Centre for Life Sciences
Period: 2014-2017
Amount: Rs. 22 Lakh
Investigator: Principal Investigator

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9. Department of Biotechnology (DBT)

Title of the Project: Development of Vitamin-E Biofortified Indica rice.
Agency: Department of Biotechnology (DBT), India
Period:2012-2016
Amount: Rs. 42.86 Lakh
Investigator: Principal Investigator

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10. UGC

Title of the Project: Purification of the Plant-Based Chikungunya Antigens and Evaluation of its Vaccine Potential.
Agency: UGC-UKIERI Joint Research Programme
Period: 2011-2014
Amount: Rs.34 Lakh
Investigator: Principal Investigator

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11. UGC

Title of the Project: Development of a Recombinant Vaccine in Transgenic Plants for Chikungunya Viral Infection.
Agency: UGC-UKIERI Joint Research Programme
Period: 2009-2012
Amount: Rs.34 Lakh
Investigator: Principal Investigator

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12. UGC

Title of the Project: DNA Barcoding of Indian Medicinal Plants (*Apocyanaceae*).
Agency: UGC-MRP, Government of India.
Period: 2008-2010
Amount: 9.35 Lakh
Investigator: Principal Investigator

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13. DRDO-BU-CLS

Title of the Project: Enrichment of Vitamin-E in Tomato through Metabolic Engineering
Agency: DRDO-BU-CLS, Government of India
Period: 2008-2011
Amount: 17.5 Lakh
Investigator: Principal Investigator

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14. DARL and DRDO

Title of the Project: Genetic Engineering of Tomato for Cold Tolerance by Expressing Carrot Antifreeze Protein (AFP).
Agency: DARL and DRDO, Government of India
Period: 2006-2009
Amount: Rs.9.92 Lakh
Investigator: Principal Investigator

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15. DRDO

Title of the Project: Production of Frost-Resistant Transgenic Tomato using LT16/RC12A Gene from *A. thaliana*.
Agency: DRDO, Government of India
Period: 2006-2009
Amount: Rs.9.98 Lakh
Investigator: Principal Investigator

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1. RUSA 2.0 – BCTRC.

Title of the Project: Large-Scale Production of Cancer Biomarkers (antigens) Using Plant Molecular Pharming Approach
Funding Agency: RUSA 2.0 – BCTRC.
Period: 2020-2022
Amount: Rs.12.88 Lakh
Investigator: Principal Investigator

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2. Department of Biotechnology, (GOI)

Title of the Project: Systems Approach to Dissect the Novel O-Acyltransferase Role in TAG Biogenesis Towards the Promising Fourth-Generation Bioenergy Feedstock
Funding Agency: Department of Biotechnology, (GOI)
Period: 2020-2023
Amount: Rs.26.40 Lakh
Investigator: Principle Investigator

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3. TANSCHE

Title of the Project: Large-Scale Production of Lignin Peroxidase (LiP) by Molecular Farming for Rapid and Low-Cost Degradation of Coir Waste - a green technology for tackling agro-waste pollution in western Tamil Nadu
Funding Agency: TANSCHE
Period: 2021-2024
Amount: Rs.19.53 Lakh
Investigator: Principle Investigator

Consultancy Projects

- Ongoing-02
- Completed-15

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1. Arjuna Natural Extracts, Kerala (Phase-II).

Title of the Project: DNA Barcoding of Medicinal Plants
Funding Agency: Arjuna Natural Extracts, Kerala (Phase-II).
Period: 2019-2021
Amount: Rs.4.43 Lakh
Investigator: Principle Investigator

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2. Indus Biotech Pvt. Ltd., Maharashtra (Phase-V).

Title of the Project: DNA Barcoding of Plants
Funding Agency: Indus Biotech Pvt. Ltd., Maharashtra (Phase-V).
Period: 2021-2022
Amount: Rs.3.90 Lakh
Investigator: Principle Investigator

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1. Indus Biotech Pvt. Ltd., Maharashtra (Phase-IV).

Title of the Project: DNA Barcoding of Plants.
Principle Investigator: R. Sathishkumar (as PI)(Co. PI)
Funding Agency: Indus Biotech Pvt. Ltd., Maharashtra (Phase-IV).
Amount: Rs. 7.91 Lakh
Duration: 2018-2020

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2. Texcity Biosciences, Tamil Nadu & DBT-BIRAC-BIPP.

Title of the Project: Allele Mining for Development of Rice with Slow and Sustained Energy Release.
Principle Investigator: R. Sathishkumar (as PI)(Co. PI)
Funding Agency: Texcity Biosciences, Tamil Nadu & DBT-BIRAC-BIPP.
Amount: Rs. 200 Lakh
Duration: 2019-2020

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3. Green Chem Herbal Extract and Formulations, Karnataka (Phase-II).

Title of the Project: DNA Barcoding of Medicinal Plants.
Principle Investigator: R. Sathishkumar (as PI)(Co. PI)
Funding Agency: Green Chem Herbal Extract and Formulations, Karnataka (Phase-II).
Amount: Rs. 3.98 Lakh
Duration: 2018-2019

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4. T. Stanes& Company Limited, Coimbatore.

Title of the Project: DNA Barcoding of Inter-Laboratory Consultative Project.
Principle Investigator: R. Sathishkumar (as PI)(Co. PI)
Funding Agency: T. Stanes& Company Limited, Coimbatore.
Amount: Rs. 0.06 Lakh
Duration: 2019

5.T. Stanes& Company Limited, Coimbatore.

Title of the Project: DNA Barcoding of Inter-Laboratory Consultative Project.
Principle Investigator:R. Sathishkumar (as PI)(Co. PI)
Funding Agency: T. Stanes& Company Limited, Coimbatore.
Amount: Rs. 0.01 Lakh
Duration: 2018

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6. Laila Pharmaceuticals, Pune.

Title of the Project: DNA Barcoding of Medicinal Plants.
Principle Investigator:R. Sathishkumar (as PI)(Co. PI)
Funding Agency: Laila Pharmaceuticals, Pune.
Amount: Rs. 1.88 Lakh
Duration: 2018-2019

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7. Indus Biotech Pvt. Ltd., Maharashtra (Phase-III).

Title of the Project: DNA Barcoding of Plants.
Principle Investigator:R. Sathishkumar (as PI)(Co. PI)
Funding Agency: Indus Biotech Pvt. Ltd., Maharashtra (Phase-III).
Amount: Rs. 4.73 Lakh
Duration: 2018-2019

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8. Indus Biotech Pvt. Ltd., Maharashtra (Phase-II).

Title of the Project: DNA Barcoding of Plants.
Principle Investigator:R. Sathishkumar (as PI)(Co. PI)
Funding Agency: Indus Biotech Pvt. Ltd., Maharashtra (Phase-II).
Amount: Rs. 3.86 Lakh
Duration: 2017-2018

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9. Indus Biotech Pvt. Ltd., Maharashtra (Phase-I).

Title of the Project: DNA Barcoding of 25 Plants.
Principle Investigator:R. Sathishkumar (as PI)(Co. PI)
Funding Agency: Indus Biotech Pvt. Ltd., Maharashtra (Phase-I).
Amount: Rs. 3.86 Lakh
Duration: 2016-2017

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10. Arjuna Natural Extracts, Kerala (Phase-I).

Title of the Project: DNA Barcoding of 25 Medicinal Plants.
Principle Investigator:R. Sathishkumar (as PI)(Co. PI)
Funding Agency: Arjuna Natural Extracts, Kerala (Phase-II).
Amount: Rs. 1.26 Lakh
Duration: 2015-2016

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11. Greenchem Herbal Extract and Formulations, Karnataka (Phase-I).

Title of the Project: DNA Barcoding of Medicinal Plants.
Principle Investigator:R. Sathishkumar (as PI)(Co. PI)
Funding Agency: Greenchem Herbal Extract and Formulations, Karnataka (Phase-I).
Amount: Rs. 3.73 Lakh
Duration: 2014-2016

---

12. The Himalaya Drug Company, Karnataka.

Title of the Project: DNA Barcoding of 50 Medicinal Plants.
Principle Investigator:R. Sathishkumar (as PI)(Co. PI)
Funding Agency: The Himalaya Drug Company, Karnataka.
Amount: Rs. 5.31 Lakh
Duration: 2014-2015

Research Guidance

- Post Doc.
- Ph.D.
- M.Phil.
- M.Sc.

Ongoing (-)

Nil

Completed (5)

Name of the Candidate: Dr. S. Dhivya
Title of the Dissertation: Next Generation DNA Barcode Chip to Enhance and to Accelerate the Detection of the Contaminants and Substitution in Indian Herbal Products and Traded Spices.
Year of Award: 2015-2020

Name of the Candidate: Dr. S. Ramkumar
Title of the Dissertation: Identification of Novel Mechanisms Involved in

Polyphenol Oxidase (PPO) to Improve the Quality of Tea (*Camellia sinensis* (L.) O. Kuntze).
Year of Award: 2017-2020

Name of the Candidate: Dr. V. Baskar
Title of the Dissertation: Enhancement of Biodiesel Production in *Jatropha curcas* through Genetic Transformation of *Arabidopsis thaliana* Purple Acid Phosphatase-2 gene.
Year of Award: 2016-2018

Name of the Candidate: Dr. S. Sivakumar
Title of the Dissertation: Invitro Culture and Enhanced Production of Xanthones from *Canscora decussate*, a Critically Endangered Anti-Cancer Herb.
Year of Award: 2016-2019

Name of the Candidate: Dr. B. Karpaga Raja Sundari
Title of the Dissertation: Next Generation DNA Barcoding for Herbal Product Authentication.
Year of Award: 2015-2016

Ongoing (8)

Full-time Doctoral Candidates

Name of the Candidate: S. Hari Priya (Senior Research Fellow: DST Inspire Fellowship)
Title of the Dissertation: Single Step Metabolic Engineering Strategy to Reduce Nicotine Content and to Enhance the Pharmaceutically Important Anatabine in *Nicotiana tabacum* Using CRISPR/Cas9 Genome Editing.

Name of the Candidate: S. Parthiban (Project Associate-II: DST-SERB-CRG)
Title of the Dissertation: Development of Rapid, Cost-Effective and Early Diagnosis Kit for Detection of Serotype-Specific Dengue Infection.

Name of the Candidate: T. V. Vijeesh (University Research Fellow: Bharathiar University Fellowship)
Title of the Dissertation: Targeted Metabolic Pathway Engineering to

Enhance the Production of Anti-cancer Drug, Camptothecin in *Ophiorrhiza mungos* L.

Name of the Candidate: T. Gayatri (Junior Research Fellow: DBT-BET)
Title of the Dissertation: Reconstitution of Carnosol and Carnosic Acid Biosynthesis Pathway in *Nicotiana tabacum*.

Name of the Candidate: V. A. Sree Lekshmi (Project Fellow: TANSCHE-RGP)
Title of the Dissertation: Heterologous Expression of *Arabidopsis thaliana* Isopentenyl Phosphate Kinase (AtIPK) in *Salvia officinalis* to Modulate the Biosynthesis of High-Value Diterpenoids.

Name of the Candidate: A. Abdul Basith (Project Fellow: TANSCHE-RGP)
Title of the Dissertation: Large Scale Production of Lignin Peroxidase (LiP) through Plant Molecular Farming for Delignification of Agro-Waste**.**

Name of the Candidate: P. Mouliraj
Title of the Dissertation: Yet to be finalized

Part-time Doctoral Candidates

Name of the Candidate: Kiruba Devi
Title of the Dissertation: -

Completed (21)

Name of the Candidate: K. Sree Preethy
Title of the Dissertation: Large Scale Production of Recombinant Manganese Peroxidase (rMnP1) through Plant Molecular Farming for Delignification of Coir Waste.
Year of Award: 2024

Name of the Candidate: R.K.B. Bharadwaj
Title of the Dissertation: Metabolic Engineering of *Salvia officinalis* for Enhanced Production of High-Value Diterpenes, Carnosol and Carnosic Acid.
Year of Award: 2023

Name of the Candidate: G. Mohanapriya
Title of the Dissertation: Study of Alternative Oxidase (AOX) Genes Functionality Associated with Cell Reprogramming.
Year of Award: 2021

Name of the Candidate: K. Mahima
Title of the Dissertation: Character Evolution and Phylogeny of Genus *Ficus* L. (*Moraceae*) from Southern India.
Year of Award: 2020

Name of the Candidate: S. Sathish
Title of the Dissertation: Biofortification of Rice with α-tocopherol (Vitamin - E) by Expressing AtTC and AtHPT Genes.
Year of Award: 2020

Name of the Candidate: Safia Nayeem
Title of the Dissertation: Biofortification of Isoflavonoids in Tobacco (*Nicotiana tabacum*) and Rice (*Oryza sativa*) through Metabolic Engineering.
Year of Award: 2020

Name of the Candidate: M. Saravanan
Title of the Dissertation: DNA Barcoding and Chemometric-Based Authentication of Natural Honey samples.
Year of Award: 2019

Name of the Candidate: R. Venkatesh
Title of the Dissertation: Adaptive Response of Contrasting Indica Rice Cultivars under Drought Stress.
Year of Award: 2019

Name of the Candidate: P. Anunanthini
Title of the Dissertation: Identification and Functional analysis of *Daucus carota* Antifreeze Protein (DcAFP) Promoter Region in Response to Abiotic Stress.
Year of Award: 2019

Name of the Candidate: I.Gowtham
Title of the Dissertation: Plant-made Biologics – *Staphylococcal* Superantigens for Immunoprotection and Immunodiagnosis.
Year of Award: 2018

Name of the Candidate: M. Saravanamurali
Title of the Dissertation: Epidemiology, Culture, Characterization and Pathophysiology of Chikungunya virus.
Year of Award: 2017

Name of the Candidate: M. Ashwini
Title of the Dissertation: Genetic and Metabolic Engineering of Onion with Isoflavone Synthase-1 for Isoflavonoid Production.
Year of Award: 2016

Name of the Candidate: K. Jothibasu
Title of the Dissertation: Construction of High Throughput ihpRNA TC and TMT Constructs for Metabolic Engineering of Vitamin-E Pathway in *Nicotiana tobacum.*
Year of Awarded: 2016

Name of the Candidate: M. P. Ayyappa
Title of the Dissertation: Das Nutraceuticals and Pharmacological Investigations on *Muntingia calabura* L. Fruit.
Year of Award: 2015

Name of the Candidate: S. Dhivya
Title of the Dissertation: Application of DNA Barcoding Technique for Authentication of Herbal Plants and their Products.
Year of Award: 2015

Name of the Candidate: S. Balamurugan
Title of the Dissertation: Plant Expression System as a Platform for the Production of Chikungunya vaccine Candidates.
Year of Award: 2014

Name of the Candidate: S. Balamurugan
Title of the Dissertation: Isolation, Characterization and Cloning of *Lolium perenne* Anti-freeze Protein and Genetic Transformation of Tobacco and Tomato for Cold Tolerance.
Year of Award: 2014

Name of the Candidate: Varghese P. Inchakalody
Title of the Dissertation: Plant and Bacterial-Based Gene Expression System for the Production of Recombinant Chikungunya Viral Antigen E1 And E2.
Year of Award: 20

Name of the Candidate: S. Rajeev Kumar
Title of the Dissertation: Isolation of Cold-Induced Genes from Carrot and

Enhancement of Cold Tolerance in Transgenic Tobacco and Tomato using Carrot Antifreeze Protein (AFP).
Year of Award: 2012

Name of the Candidate: S. Dhivya
Title of the Dissertation: Studies on DNA barcodes to Identify the Indian Medicinal plant species of *Apocyanaceae* and *Zingiberaceae*.
Year of Award: 2012

Name of the Candidate: M.C. Harish
Title of the Dissertation: Enhancement of a-Tocopherol content by Over-Expressing HPT and TC genes through Precursor/Elicitor Supplementation in Cell Suspension Cultures of Tobacco and Tomato.
Year of Award: 2011

Ongoing (-)

Nil

Completed (22)

Name of the Candidate: Parthiban S
Title of the Dissertation: Exploring Non-Structural Proteins for Serotype-Specific Differential Diagnosis of Dengue Infection Using *In-Silico* Approach
Year of Award: 2018

Name of the Candidate: Hari Priya S
Title of the Dissertation: Genome-wide Association and Expression Profiling of Plant ODC (Ornithine decarboxylase)-A Multifaceted Candidate Gene.
Year of Award: 2017

Name of the Candidate: Baala Harini
Title of the Dissertation: A Studies of Genetic Diversity of Small Cardamom (*Elettaria cardamomum* M.) Varieties using DNA Barcode-Based Techniques.
Year of Award: 2015

Name of the Candidate: Sree Preethy K
Title of the Dissertation: DNA Barcoding and Nutritional Qualities of Commercially Important Pomegranate Varieties.
Year of Award: 2015

Name of the Candidate: Saranya. S
Title of the Dissertation: *In-planta* Genetic Transformation of Rice Seeds with Tocopherol Cyclase-A Vitamin-E Pathway Gene.
Year of Award: 2014

Name of the Candidate: Mahima. K
Title of the Dissertation: DNA Barcoding to Analyse *Ficus* L. – A Taxonomically Complex Group.
Year of Award: 2014

Name of the Candidate: Saravanan. M
Title of the Dissertation: DNA Barcodes for Authentication of Commercially Important Indian Species.
Year of Award: 2013

Name of the candidate: Safia
Title of the Dissertation: Quantification of Flavonoids by HPLC and Cloning of Bacterial TAL Gene for Metabolic Engineering in Rice.
Year of Award: 2013

Name of the Candidate: Mohanapriya. G
Title of the Dissertation: Expression Analysis of Tobacco Alternative Oxidase (AOX1a) during Transient Activation/Inhibition and Abiotic Stress.
Year of Award: 2013

Name of the Candidate: Anunanthini. P
Title of the Dissertation: Transformation of Tobacco and Sugarcane using Carrot Antifreeze Protein with Specific Promoter to Enhance Cold Tolerance.
Year of Award: 2012

Name of the Candidate: Jijo C Joseph
Title of the Dissertation: Phylogenetic Analysis of Millet using its Gene and Estimation of Nuclear DNA Content by Flow cytometry.
Year of Award: 2011

Name of the Candidate: Rajalakshmi. S
Title of the Dissertation: Evaluation of Gene Delivery Systems for *Loliumperenne*-A Cold Tolerant Forage and Lawn Grass.
Year of Award: 2011

Name of the Candidate: Dachinamoorthy. P
Title of the Dissertation: Single and Double Transgenic Tobacco Line with Homogentisate Phytyl Transferase (HPT) and Tocopherol Cyclase (TC) for Vitamin-E Enrichment.
Year of Award: 2010

Name of the Candidate: Dhivya. S
Title of the Dissertation: DNA Barcodes for Evaluating the Taxonomic Status and Discrimination of the Closely Related Invasive Plant Species.
Year of Award: 2010

Name of the Candidate: Kiruba. R
Title of the Dissertation: Production and Characterization of Transgenic Tobacco and Tomato using AtFAD7 for Cold Tolerance.
Year of Award: 2010

Name of the Candidate: Ashwini. M
Title of the Dissertation: Biochemical, Tissue Culture and DNA Delivery Studies in Onion Varieties of Bellary and CO3.
Year of Award: 2010

Name of the Candidate: Suresh Bahu. K
Title of the Dissertation: Isolation and Characterization of Stress Tolerant Antagonistic and Plant Growth Promoting Bacteria from the Active Volcano of Barren Island Soil.
Year of Award: 2009

Name of the Candidate: Kayalvizhi. M
Title of the Dissertation: Agroinfiltration – A Versatile.
Year of Award: 2009

Name of the Candidate: Balamurugan. S
Title of the Dissertation: Assessment of *In vitro* Responses, DNA Delivery Systems and Aroma Compound in Traditional Rice Varieties.
Year of Award: 2008

Name of the Candidate: Varghese P. Inchakaody
Title of the Dissertation: Rapid High-Frequency Plant Regeneration, Genetic Transformation and Antimicrobial Activity of Wild Medicinal Rice Njavara.
Year of Award: 2006

Name of the Candidate: Sri Lakshmi
Title of the Dissertation: *Gymnema sylvestre* – Studies on the Abiotic Stress-Induced Changes, Antioxidant Properties and Protein Profile in Callus Cultures.
Year of Award: 2006

Name of the Candidate: Rejani. J
Title of the Dissertation: *In vitro* Regeneration and *Agrobacterium tumefaciens* mediated Transformation of Mungbean (*Vigna radiate* L. Wilczek)
Year of Award: 2006

Ongoing

Accordion content 1.

Completed

Name of the candidate : Parvathy R. Kumar
Title of the Dissertation : In vitro propagation of Momordica charantia and Genetic Transformation of Chitinase and Glucanase genes for Pathogenic resistance
Year of Award :2006

Name of the candidate : Smitha Ravindranathan
Title of the Dissertation : Standardization of reverse Transcriptase polymerase chain reaction of Gamma Tocopherol Methyl Transferase gene from Arabidopsis thaliana
Year of Award :2006

Name of the candidate : Rajeev Kumar S.
Title of the Dissertation : Genetic Transformation of Chitinase and

Glucanase to Dianthus caryophyllus L (Carnation) for Pathogen resistance
Year of Award :2006

Name of the candidate :R. Saravanan
Title of the Dissertation : Biochemical and Molecular Analysis of Brassica juncea during Cadmium stress
Year of Award :2007

Name of the candidate :N. R. Natarajasivam
Title of the Dissertation : Studies on variation in Biochemical and Molecular characters and in vitro studies in Red and Green Tamarind
Year of Award : 2007

Name of the candidate : Chitra Devi
Title of the Dissertation : Studies on Biochemical and Molecular responses in High Altitude Tomato variety Shalimar during salt stress
Year of Award :2007

Name of the candidate :M. Sathyabhama
Title of the Dissertation : Chloroplast gene matK- A barcode for the species of Apocynaceae
Year of Award :2008

Name of the candidate : Safia
Title of the Dissertation : Production of Transgenic tomato using COR15A-FAD7 for cold tolerance
Year of Award :2008

Name of the candidate : Sowmiya Devi
Title of the Dissertation : Enhancement of α-Tocopherol in Lycopersicumesculentum using elicitors
Year of Award : 2008

Name of the candidate :D. Pridiviraj
Title of the Dissertation : Over expression of carrot Anti freeze protein (AFP) gene
Year of Award :2008

Name of the candidate :J. Narmada
Title of the Dissertation : Production of cold tolerant tomato using FAD7 and to study the biochemical and physiological changes in different cultivars

of tomato
Year of Award : 2009

Name of the candidate : Hima Nandini
Title of the Dissertation : To increase α-tocopherol content in Spinach (Spinaciaoleracea) through overexpression of HPT gene by Agrobacterium mediated Transformation
Year of Award : 2009

Name of the candidate :S. Balakrishnan
Title of the Dissertation : Optimization of Agrobacterium-mediated transformation parameters for Tomato var. PKM1 using β-glucuronidase as a reporter gene
Year of Award : 2009

Name of the candidate :M. Kayalvizhi
Title of the Dissertation : Taxonomical dispute in the genus (Tribulus) – solution through DNA barcode
Year of Award : 2009

Name of the candidate : Rajasekaran. S
Title of the Dissertation : Screening of salinity fitness ability and in vitro studies of wild Indian economically valuable rice varieties
Year of Award :2009

Name of the candidate :S. Priyadharshini Enhancement of vitamin E by overexpressing tocopherol cyclase (VITE1) in tomato plant (Lycopersicon Esculentum)
Year of Award : 2009

Name of the candidate :C. Rajkumar
Title of the Dissertation : Profile of immune regulatory cytokines expression in skin lesions of the patients suffering from Leprosy and cutaneous Tuberculosis
Year of Award :2010

Name of the candidate :M. Giriram Kumar
Title of the Dissertation : Molecular tools to identify adulteration in aromatic rice varieties with other non-aromatic rice varieties
Year of Award : 2010

Name of the candidate :R. Kiruba
Title of the Dissertation : Production of Transgenic Tobacco and Tomato using COR 15 FAD7 for cold tolerance
Year of Award :2010

Name of the candidate :J. Balaganesh
Title of the Dissertation : Nutritional and Antioxidant Profiling of Indian Tomato Varieties
Year of Award :2011

Name of the candidate :C.V. Suganya Devi
Title of the Dissertation : Screening of Salinity fitness ability of the Indian Tomato varieties
Year of Award : 2011

Name of the candidate : Dixon Davis
Title of the Dissertation : Expression of Gus gene in Bacterial Host system using Gateway Recombination Technology
Year of Award :2012

Name of the candidate :I. Gowtham
Title of the Dissertation : Molecular, Biochemical, In Silico Modeling and Simulation Studies on LoliumperenneAnti Freeze Protein
Year of Award : 2012

Name of the candidate : Maria Philip
Title of the Dissertation : Molecular Analysis Of T1 Transgenic Tobacco Lines Expressing Chik Glycoprotein E2
Year of Award : 2012

Name of the candidate : Reshma Aziz
Title of the Dissertation : Gene Expression of GUS and GFP in Amaranthus tristis – A green leafy vegetable
Year of Award : 2013

Name of the candidate :R. Deepika
Title of the Dissertation : Appraisal of Green Leafy vegetables as functional food
Year of Award :2013

Name of the candidate : Susan Ann Jayan
Title of the Dissertation : Lolium perenne Antifreeze protein enhances cold tolerance in Transgenic Tobacco
Year of Award :2013

Name of the candidate :S. Muthulakshmi
Title of the Dissertation : To study the beneficial role of Riboflavin producing bacteria on Nicotiana tobacum
Year of Award :2014

Name of the candidate :P. Kanjana
Title of the Dissertation : Optimization of the Plant growth conditions and Transient Gene expression parameters for the Plant species of N.benthamiana, A.caudatus and P. quadrifida
Year of Award :2014

Name of the candidate :R. Saranya
Title of the Dissertation : High-Throughput construction of Intron containing hairpin RNA to study the tocopherol cyclase function
Year of Award :2014

Name of the candidate :B. Atchaya
Title of the Dissertation : Authentication of Raw and market samples of spices using DNA barcodes
Year of Award :2014

Name of the candidate :32.Pisharody Karthika Muraleedharan
Title of the Dissertation : Simple and rapid generation of stable Transgenic Nicotiana tabacum by agroinfiltration
Year of Award :2015

Name of the candidate :M. Yedukrishnan
Title of the Dissertation : Validation of coffee species by means of DNA Barcode based PCR-RFLP method
Year of Award :2015

Name of the candidate :R. Sivasankari
Title of the Dissertation : Generation of Transgenic rice callus using pRNAi-GG-TC vector
Year of Award :2015

Name of the candidate :N.Rani Riboflavin
Title of the Dissertation :producing Bacteria improve the plant growth and seed germination
Year of Award :2015

Name of the candidate :L. Kalaivani
Title of the Dissertation : Analysis of Ice Recrystallisation Inhibition protein from cold tolerant plants
Year of Award :2015

Name of the candidate :K. Sathishkumar
Title of the Dissertation : Studies on selecting suitable Indian plant for molecular farming
Year of Award :2016

Name of the candidate :M. Meena
Title of the Dissertation : Effect of Salt stress CuO Nanoparticle on Transcript leves of the Alternative Oxidase (DcAOX1a and DcAOX2a) in Daucus carota
Year of Award : 2016

Name of the candidate :C. Krishnaveni
Title of the Dissertation : Authentication Of Herbal Tea Using Dna Barcodes
Year of Award :2016

Name of the candidate :M. Iswarya
Title of the Dissertation : Screening of Popular South Indian Rice Varieties for Vitamin E Content
Year of Award :2016

Name of the candidate :S. Hari Priya
Title of the Dissertation : Enhancement of rTE fusion protein production in plants using P19silencing suppressor protein
Year of Award :2017

Name of the candidate :A.Ilakkanadevi
Title of the Dissertation : Enhancement of Flavonoid and Isoflavonoids in plant using transient gene expression
Year of Award :2017

Name of the candidate :N.Kiruthiga
Title of the Dissertation : Screening and Selection of Regional Model Plants for Molecular Farming
Year of Award :2017

Name of the candidate :S. NasreenBanu
Title of the Dissertation : Cloning and Expression of GFP gene in bacterial host system for commercial use
Year of Award :2017

Name of the candidate :P. Periyasamy
Title of the Dissertation : In-silico characterization and biochemical estimation of ROS scavenging genes during drought and salt stress in sugarcane
Year of Award :2018

Name of the candidate : Abuyaseer
Title of the Dissertation :A DNA barcoding and tissue culture studies in Aegle marmelos L (Vilvam)
Year of Award :2018

Name of the candidate : Arun Kumar
Title of the Dissertation :A Phytochemical anlysis and antioxidant activity of raw and cooked rice
Year of Award :2018

Name of the candidate : Sabitha
Title of the Dissertation :A DNA barcode based loop-mediated isothermal amplification (LAMP) for the authentication of high value Cinnamomum species
Year of Award :2019

Name of the candidate :M. Hajistha Parveen
Title of the Dissertation : Differential expression of AOX gene family play a role during development and low-temperature stress in four Daucus carota L. subsp. sativus
Year of Award :2019

Name of the candidate :M. Kowsalya
Title of the Dissertation : Phytochemical screening, antioxidant and free

radical scavenging activity of Putranjiva roxburghii seeds and seed coat
Year of Award :2019.

Name of the candidate : Naman Gupta
Title of the Dissertation : External- NCCS
Year of Award :2020

Name of the candidate :D. Praveena
Title of the Dissertation : Studies on phenyl proponoid biosynthesis pathway in tea (Camellia sinensis (L.) O. kuntze)
Year of Award :2020

Name of the candidate :R. Sinduja
Title of the Dissertation : Effect of NaCl and PEG induced stress on seed germination of carrot (*Daucus carota* L.)
Year of Award : 2020

Name of the candicate:R.Soundriya
Title of the Dissertation : DNA Barcoding coupled with high resolution melting curve (BAR-HRM) analysis for the detection of *Myrstica fragrans* Houtt. And *Cinnamomum verum* L. adulterants
Year of Award :2020

Name of the candidate :N. Nivetha
Title of the Dissertation : Functional analysis of Alternative oxidase genes during somatic embryogenesis and by transient gene silencing
Year of Award : 2021

Name of the candidate :M. Moulitharan
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