

CURRICULUM VITAE

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ACADEMIC PROFILE

2004 **Ph.D. Botany** (Specialization in Plant Biotechnology), St. Joseph's College, (Autonomous) Tiruchirappalli Tamil Nadu, India.

Title of the Thesis: Invitro studies on solanumsurratenseBurm f.,

1992 **B. Ed., Biological Science**, AnnamalaiUniversity ., Chidambaram Tamil Nadu, India.

1992 **M.Phil.Botany**, (Specialization in Plant Biochemistry), St. Joseph's College, (Autonomous) Tiruchirappalli Tamil Nadu, India.

Title of the Thesis: A study of possible mechanism of resistance to heavy metals in *Scenedesmusacutus*.

1990 **M.Sc.Botany**, 1990(Specialization in stress physiology),St. Joseph's College, (Autonomous) Tiruchirappalli Tamil Nadu, India.

Title of the Thesis: "Effect of NaCl and CaCl₂ separately and in combination in *Zea mays* L",

1988 **B.Sc. Botany**,(Specialization in metal stress physiology),St. Joseph's College, (Autonomous) Tiruchirappalli Tamil Nadu, India.

Title of the Thesis: "Culture of *Scenedesmus* using sewage and Iron supplemented sewage"

EXPERIENCES OF TEACHING AND RESEARCH:

Sl.No.	Name of the College	Years of Teaching	Areas of specialization
1	St.Joseph's College, Tiruchirappalli	1998-2002	Plant diversity, plant taxonomy, plant physiology and

			biotechnology and ecology
2	Thanthai Hans Rover College, Perambalur	2002-2003	Plant biotechnology, plant biochemistry immunology
3.	St. Xaviers College, Palayamkottai.	2003-2004	Plant diversity, plant physiology and plant biotechnology.
4	St. Joseph's College Tiruchirapalli	2004-2005	Plant diversity, plant taxonomy, plant physiology and biotechnology and ecology
5	St. Andrew's College Gorakpur-UP.	2005-2007	Plant diversity, plant taxonomy, plant physiology and biotechnology and ecology
6	St. Joseph's College Tiruchirapalli	2007- Till date	Plant diversity, plant taxonomy, plant physiology and biotechnology and ecology

AREAS OF RESEARCH INTEREST

- Plant Tissue Culture (Tree species and Medicinal Plants)
- Plant nanotechnology
- Environmental conservation
- Climate change and global warming
- Microbial interactions
- Plant Taxonomy

RESEARCH ADVISOR

Guiding a research scholar for doctoral degree

RESEARCH PAPERS PUBLISHED IN JOURNALS:

PAPERS PRESENTED:

- 1. Presented a paper on “ a study of possible mechanism of resistance to cadmium in scendesmusacutus” atnational symposium on algae and their utilization-organised by seaweed research and utilization association. Chennai..September 2-6, 1994.**
- 2. Presented a paper on “ callus induction from different explants of jatrophaglanduliferaroxb.” Atnational seminar on recent trendsin biotechnological research conducted by school of life sciennces, bharathidasan university, tiruchirapalli. October, 9and 10, 1994.**
- 3 Presented a paper on “ tissueculture of Achyranthes aspera.” At national symposium on current trends in biochemistry and biotechnoloigy conducted by department of chemistry and bio-chemistry,CCS Haryana university, Hisar.Febuary.25-28, 1996.**
- 4 Presented a paper on “ callus induction from different explants of justiciagendurussa.” Burmf. At national symposium on current trends in biochemistry and biotechnoloigy conducted by department of chemistry and bio-chemistry,CCS Haryana university, Hisar.Febuary.25-28, 1996.**
- 5 Presented a paper on “ callus induction and plant generation in different explants of solanummelongena-Hybrid variety.” L. At national symposium, state level UGC sponsored seminar on modern trends in plant sciences- department oof Botany, AVC College-MannmpandalMayiladuthuri, March. 4-6, 1999.**
- 6 Presented a paper on “ callus induction and plant generation in different explants of solanummelongena-Hybrid variety.” L. At national symposium, state level UGC sponsored seminar on modern trends in plant sciences- department oof Botany, AVC College-MannmpandalMayiladuthuri, March. 4-6, 1999.**
- 7 Presented a paper entitled “ Induction of somatic embryogenesis and regeneration from embryogenic callus of solanummelongena” L.Rohini AT national symposium on recent trends in plant science research conducted by department of otany, university of kerala. April.17-19.2000.**
- 8 Presented a paper entitled “ Induction of callus from stem explants of Solanumsurrettense” Burm.F AT national symposium on medicinal plants. Department of botany and plant biotechnologu, St. Xavier’s College Palayamkottai from Jan 27th- 30. 2004.**

- 9 Presented a paper entitled “ callus induction and plant regeneration from intermodal and leaf explants of merremiaemarginata” (Burm.F)Hall. At international conference on sustainable utilization, management and conservation of bioresources-ICSMCB-13.conducted and organized by St.Joseph’s College, Tiruchirapalli. 10 and 11-1-2013.
- 10 Presented a paper entitled “ antimicrobial activity of ethanol and acetone extracts of indian madder-rubiaccordifolia” L. at national symposium on on recent advances in medicinal plants-NASYMP’14 Department of botany . St.Joseph’s College, Tiruchirapalli.5-2-2014.
- 11 Presented a paper entitled “ in vitro screening of secondary metabolities and anttimicorbial activities of ethanol and aceone from Hemionitisarifolia” (Burm) T.MooreL. at national symposium on on recent advances in medicinal plants-NASYMP’14 Department of botany . St.Joseph’s College, Tiruchirapalli.5-2-2014.
- 12 Presented a paper entitled “ investigating antimicrobialactiivties of different plant extracts in argyreiaosyrensis” L. at national symposium on on recent advances in medicinal plants-NASYMP’14 Department of botany . St.Joseph’s College, Tiruchirapalli5-2-2014.
- 13 Presented a paper entitled “ evaluation of antibacterial activity of solenaamplexicalis” L. at national symposium on on recent advances in medicinal plants-NASYMP’15 Department of botany . St. Joseph’s College, Tiruchirapallii.5-2-2015.
- 14 Presented a paper entitled “ antibacterial activity of methanol and acetone oextracts of Priviaccordifolia- a medicinal plant” L. at national symposium on on recent advances in medicinal plants-NASYMP’15 Department of Botany . St. Joseph’s College, Tiruchirapalli.5-2-2015
- 15 Presented a paper entitled “ invitro multiple shoot regeneration from nodal explants of Priviaccordifolia a medicinal plant” L. at national symposium on on recent advances in medicinal plants-NASYMP’15 Department of Botany . St.Joseph’s College, Tiruchirapalli.5-2-2015
- 16 Presented a paper entitled “ INDUC TION OF CALLUS AND PLANT REGENeration from internode explant of priviaccordifolia” L. at national symposium on on recent advances in medicinal plants-NASYMP’15. Department of Botany .St.Joseph’s College, Tiruchirapalli .5-2-2015
- 17 Presented a paper entitled “ antibacterial activity of methanol and acetone extracts of Sarcostemmaacidum- medicinal plant” L. at international

conference on frontiers in life sciences. Department of Botany .St.Joseph's College, Tiruchirapalli .7 and 8-1-2016.

18. Presented a paper entitled “ green synthesis , characteristion and antimicrobial analysis of silver nanoparticles from carallumaadscendens” L. at at international conference on frontiers in life sciences. Department of Botany .St.Joseph's College, Tiruchirapalli .7 and 8-1-2016.
- 19.Presented a paper entitled “ photosynthesisand characterization of silver nanoparticles using root extracts of Dioscoreaoppositifloia” L. at national conference on new avenues in life sciences- trends and challenges. Organsied by life science departmeents . Dhanalakshmisrinivassean college of arts and science for women.28 AND 29- 1-2016
20. Presented a paper entitled “ phytosynthesis and characterization of silver nanoparticles using extracts of evolvulusalsinoides” L. at national conference on new avenues in life sciences- trends and challenges. Organsied by life science departmeents . Dhanalakshmisrinivassean college of arts and science for women.28 AND 29- 1-2016

Publications of Research Papers:

International:

Title	Name of Journal / Vol. No. / Page Nos/ISSNO.	Impact Factor	H Index No.	C Index No.	Year
Biological Synthesis of Silver Nanoparticles Using Portulacaquadrida leaf extract and their Antimicrobial Activitiy	World Journal of Pharmaceutical Research / 6 (2) / 1309-1316 / 2277-7105	7.523			2017
Green Synthesis of Silver Nanoparticles using Delonixregia leaf extract and evaluation of their Antimicrobial Efficacy	World Journal of Pharmaceutical Sciences / 5 (3) / 209-215 / 2321-3310	0.453	0	0	2017

Courses and training attended:

1. Attended national symposium on **algae and their utilization**-organised by Sseaweed Research and Utilization Association. Chennai..September 2-6, 1994.
2. Attended national seminar on **recent trends in biotechnological research** conducted by School of Life Sciences, Bharathidasan University, Tiruchirapalli. October, 9 and 10, 1994.
3. Attended the training course in basic tissue culture techniques conducted at the lab of applied biology, St. Aloysius college mangalore from 23-9-94 to 15-10-94.
4. Attended national symposium on **current trends in biochemistry and biotechnology** conducted by department of chemistry and Bio-Chemistry, CCS Haryana university, Hisar. February. 25-28, 1996.
5. Attended national symposium, state level UGC sponsored seminar on **modern trends in plant sciences**- Department of Botany, AVC College- Mannampandal Mayiladuthuri, March. 4-6, 1999.
6. Attended and participated in the workshop on human rights conducted at St. Joseph's College, Trichy in the month of September 30-9-1999 to 2-10-1999.
7. Attended national symposium on recent trends in plant science research conducted by Department of Botany, University of Kerala. April. 17-19. 2000.
8. Attended and participated in one day seminar in **Digital Library** conducted at department of Library, Department of Botany St. Joseph's College, Tiruchirapalli 15-2-2002
9. Attended and participated in seminar on privatization of education: prospects and challenges conducted at department of social dynamics. Department of Botany St. Joseph's College, Tiruchirapalli 13-3-2002.
10. Attended and participated in national seminar on intellectual property rights conducted at national facility for marine cyanobacteria, Bharathidasan university. Tiruchirapalli. 9-12-2002
11. Attended and participated in one day workshop on fluorescence technology organized by the Department of Botany St. Joseph's College, Tiruchirapalli. 16-2-2004.
12. Attended national symposium on medicinal plants. Department of botany and plant biotechnology, St. Xavier's College Palayamkottai from Jan 27th-30. 2004

- 13 One-day State Level Workshop on **Histopathological Techniques (HITECH '12)** held at St. Joseph's College (Autonomous), Tiruchirappalli on 28th September, 2012.
- 14 Regional Workshop on **Histochemistry** held at St. Joseph's College (Autonomous), Tiruchirappalli on 18th, October, 2012.
- 15 One-day State Level workshop on **Mushroom Cultivation** held at St. Joseph's College (Autonomous), Tiruchirappalli on 18th, December, 2012.
- 16 **International Conference on Sustainable Utilization, Management and Conservation of Bioresources (ICSMCB-'13)** held at St. Joseph's College (Autonomous), Tiruchirappalli during 10th and 11th January, 2013
- 17 One Day State Level Workshop on **Pharmacognostical Screening of Medicinal Plants** held at St. Joseph's College (Autonomous), Tiruchirappalli on 4th March, 2013
- 18 **On Going Faculty Development Training** held at St. Joseph's College (Autonomous), Tiruchirappalli between 19th and 22nd November, 2013.
- 19 One Day State Level Workshop on **Microbiological and Phytochemical Techniques** held at St. Joseph's College (Autonomous), Tiruchirappalli on 18th December, 2013.
- 20 UGC Sponsored National Conference on **Advances in Biology (NCAB-2014)** held at St. Joseph's College (Autonomous), Tiruchirappalli during 6th and 7th January, 2014.
- 21 National Symposium on **Recent in Medicinal and Aromatic Plants (NASYMP-'14)** held at St. Joseph's College (Autonomous), Tiruchirappalli on 5th February, 2014.
- 22 One Day State Level Workshop on **Plant Taxonomy** held at St. Joseph's College (Autonomous), Tiruchirappalli on 26th February, 2014.
- 23 **Orientation Programme for Staff** held at St. Joseph's College (Autonomous), Tiruchirappalli between 16th and 17th June, 2014.
- 24 Training Workshop on **Plant Taxonomy Key Preparation** held at St. Joseph's College (Autonomous), Tiruchirappalli on 26th September, 2014.

- 25 One Day State Level Workshop on **Vermiculture Techniques** held at St. Joseph's College (Autonomous), Tiruchirappalli on 12th December, 2014.
- 26 One Day State Level Workshop on **Plant Tissue Culture Techniques** held at St. Joseph's College (Autonomous), Tiruchirappalli on 22nd December, 2014.
- 27 National Seminar on **Prospects and Challenges of Stem Cell Research** held at St. Joseph's College (Autonomous), Tiruchirappalli on 12th January, 2015.
- 28 Science Academies' Lecture Workshop on **Vistas in Biosciences** held at St. Joseph's College (Autonomous), Tiruchirappalli between 30th and 31st January, 2015.
- 29 National Symposium on **Recent in Medicinal and Aromatic Plants (NASYMP-'15)** held at St. Joseph's College (Autonomous), Tiruchirappalli on 5th February, 2015.
- 30 National Seminar on **Dr. V. Balakrishnan Memorial CME Programme** held at St. Joseph's College (Autonomous), Tiruchirappalli on 5th March, 2015.
- 31 Attended and participated on one day national seminar on **global food security and the role of biotechnology in sustainable food systems and nutrition** conducted and organized by the department of biotechnology St. Joseph's College (Autonomous), Tiruchirappalli on -5-1-2017.
- 32 Attended and participated in one day state level workshop on **plant tissue culture techniques**, conducted and organized by the department of botany St. Joseph's College (Autonomous), Tiruchirappalli on.8-2-2017.
- 33 Attended and participated the national symposium on **medicinal plants and aromatic plants** conducted and organized by department of Botany., Biochemistry and biotechnology. St. Joseph's College (Autonomous), Tiruchirappalli on.8-2-2017
- 34 Attended and participated in science academies and lecture workshop on **new vistas in biodiversity and bioresources**. conducted and organized by botany department of botany, St. Joseph's College (Autonomous), Tiruchirappalli on. 2 and 4- 8-2017.
- 35 Attended and participated in sciences academies lecture workshop on trust areas in life sciences. Conducted and organized by department of Biotechnology, Cauvery College for women Tiruchirappalli. 31 -1-2013 to 2-2-2013.

- 36 Attended and participated in **International Conference on Cancer Inferno and its prevention strategies (ICCIPS-2019)** conducted and organised by PG Department of Biochemistry, Periyar EVR College (Autonomous), Tiruchirappalli-620023, Tamil Nadu, India On 22nd February, 2019.

RESOURCE PERSON:

- 1 Delivered a special lecture on Tissue Culture Techniques during One Day State Level Workshop on Plant Tissue Culture Techniques held at St. Joseph's College (Autonomous), Tiruchirappalli on 22nd December, 2014.
- 2 Delivered a talk on global warming and climate change in IAS academy, St. Joseph's College (Autonomous), Tiruchirappalli on 22nd December, 2015.
- 3 Delivered a special lecture on morphology of plants in relation to the plant taxonomy in the "in-service training programme for secondary grade science teachers sponsored by TNSCS&T, organized by Dhanalakshimi Srinivasan college of arts and science for women. Perambalur-12. 5-8 -2015.
- 4 Delivered a talk on climate change in IAS academy, St. Joseph's College (Autonomous), Tiruchirappalli on 15-2- 2015.
- 5 External expert for facial painting competition for intercollegiate competition held at department of botany, St. Joseph's College, Tiruchirappalli. 9-2-2018.
- 6 Delivered a talk on climate change in IAS academy, St. Joseph's College (Autonomous), Tiruchirappalli on 15-2- 2015.
- 7 **Delivered a talk on climate change and global warming at environmental club in, St. Joseph's College (Autonomous), Tiruchirappalli on 23 February, 2018**
- 8 **Delivered a talk on global warming at IAS Academy, St. Joseph's College (Autonomous), Tiruchirappalli on 23 February, 2019**
- 9 **Conducted the Intra-departmental Quiz organized by the Department of Botany, St. Joseph's College, Trichy. On 26-02-2019.**

PROGRAMS ORGANIZED:

- 1 One Day State Level Workshop on Plant Tissue Culture Techniques held at St. Joseph's College (Autonomous), Tiruchirappalli on 22nd December, 2014.
2. One day state level workshop on Mushroom Cultivation at St. Joseph's College (Autonomous), Tiruchirappalli.-2016.

REFRESHER COURSE/ ORIENTATION

1. **Attended and participated and completed the UGC sponsored Orientationcourse conducted by Bharathidasan University. Tiruchirapalli . 16-5-2008 to 12-6-2008.**
2. **Attended and participated the general orientation course in NSS conducted and organized by the Training , Orientation and Research Centre, NSS, Madras School of Social Work. Chennai.20-7-2009-29-7-2009.**
3. **Attended and participated and completed the UGC sponsored Refresher Course conducted by Bharathidasan University. Tiruchirapalli . 11-8-2010 to 31-8-2010.**
4. **Attended and participated and completed the UGC sponsored Refresher Course conducted by Guru Ghasidas University. Bilaspur .1-12-2017 to 22-12-2017.**

:TECHNICAL SKILLS:

Plant Tissue Culture Techniques

Induction of shoot and root from nodal and shoot tip explants
Callus culture from internodes and leaf explants
Embryo culture
Spore culture
Somatic Embryogenesis
Synthetic Seeds
Hairy Root culture
Protoplast Isolation and Culture

Molecular Genetics

Separation of Nucleic acids and Proteins
Purification of Nucleic acids and Proteins
Agarose Gel Electrophoresis
RAPD Analysis
SDS-PAGE
Native Gel Electrophoresis

Basic Microbiological Techniques

Isolation, Cultivation and Characterization of Microorganism
Staining Techniques

Biochemical Testing
Antimicrobial activity Assays
Chromatography
Column Chromatography
Paper Chromatography
Thin Layer Chromatography
Cytology
Cytological slide preparation
Plant physiology
Plant physiology experiments regarding estimation
Plant taxonomy
Key preparations for various plants

Computer Knowledge
MS Word, MS Power Point. Handling of Internet.
Other Technical Qualifications
Type Writing: English

PERSONAL DETAILS:

Name	: M.Francis Sathiyaseelan
Father's Name	: D.Manuel
Date of Birth	: 18-11-1967
Sex	: Male
Nationality	: Indian
Religion	: Christian
Community	: BC
Marital Status	: Married
Educational Qualification	: M. Sc., B. Ed.,,M.Phil.,Ph.D.,.
Research Experience	: 18Years
Known Languages	: English& Tamil

Permanent Address

:9/E-1., Fatima street ., puthur .,
Tiruchirapalli

E-Mail

: seelansjc@gmail.com