

BIODATA OF Dr. S. R. SENTHILKUMAR, PG AND RESEARCH DEPARTMENT OF BOTANY,
ST. JOSEPH'S COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI-620002.

1. Name :Dr. S. R. SENTHIL KUMAR
Ph.D/ Botany/ (1996)
Department of Plant Science
Bharathidasan University, Tiruchirappalli

2. Present Position : Head and Associate Professor
PG and Research Department of Botany
St. Joseph's College (Autonomous),
(www.sjctni.edu)
Tiruchirappalli – 620 002.Tamilnadu

E.mail : senkumar68@gmail.com /
senthilkumar_bo1@mail.sjctni.edu

3. Research Area : Molecular Systematics of Angiosperms

4. Patent Granted : Method for preparation of active pH and
Intelligent packaging in food packing industries.
Government of Australia, (2021106690) , 2021.

5. EDUCATION

<i>Degree</i>	<i>University/Institution</i>	<i>Year</i>
Ph.D.	Dept. of Plant Science Bharathidasan University	1996
M.Phil.	St.Joseph's College (Autonomous)	1992
M.Sc.	National College(Autonomous)	1991
B.Sc	National College(Autonomous)	1988
HSC	Municipal Higher Secondary School	1986
SSLC	Government Higher Secondary School	1984

6. Academic Programmes Establishment

- ✚ B.Sc., M.Sc - Biotechnology and M.Sc. Gene Technology syllabus Framed for Bharathidasan University, Tiruchirappalli. (1996 and 1999).
- ✚ Establishment of Biotechnology and Gene Technology Departments, JJ College of Arts and Science, Pudukottai (1996-11th Jan 2000).

7. Administrative Responsibilities

- ❖ Head and Associate Professor (Government Aided) Department of Botany (2019-)
- ❖ Dean, School of Biological Sciences, St .Joseph's College, Tiruchirappalli (2017-2019).
- ❖ Head, Department of Biotechnology, St .Joseph's College, Tiruchirappalli (2014-2017).
- ❖ Head, Department of Biotechnology, Gene Technology and Env.Sciences, JJ College of Arts and Science, Pudukottai (1997-11th Jan 2000).
- ❖ Asst. Coordinator, DBT-STAR Scheme, St. Joseph's College, Tiruchirappalli.(2016-2019)
- ❖ Chief Superintendent of Examinations, St. Joseph's College, Tiruchirappalli (2015-2016)
- ❖ Coordinator, Ambient Air Quality Monitoring Station, SJC (2018-)
- ❖ Peer Team Member- UGC Paramarsh Scheme, St. Joseph's College, Tiruchirappalli 2019-
- ❖ Member, Ecology Commission of Madurai Jesuit Province, (2021)

8. Other Responsibilities in the College:

- ❖ Programme Officer- NSS Unit, St. Joseph's College, Tiruchirappalli (2004-2007)
- ❖ Director, nature Club, St. Joseph's College, Tiruchirappalli (2007-2010)
- ❖ Purchase Officer, St. Joseph's College, Tiruchirappalli (2010-2011)
- ❖ Member, Governing Body, St. Joseph's College, Tiruchirappalli (2017-2019)
- ❖ Member, Academic Council, St. Joseph's College, Tiruchirappalli(2017-2019)
- ❖ Member, Finance Committee, St. Joseph's College, Tiruchirappalli(2017-2019)
- ❖ Member, Planning and Evaluation Committee, St. Joseph's College, Tiruchirappalli (2017-2019)
- ❖ Member, Purchase Committee, St. Joseph's College, Tiruchirappalli (2017-2019)
- ❖ Member, Internal Quality Assurance Cell, St. Joseph's College, Tiruchirappalli (2017-2019)
- ❖ Member, Mentoring Facilitation Committee, St. Joseph's College, Tiruchirappalli (2017-2019)
- ❖ Member, Inventory Auditing Committee, St. Joseph's College, Tiruchirappalli (2017-2019)
- ❖ Member, UGC Affairs Committee, St. Joseph's College, Tiruchirappalli (2017-2019)
- ❖ Member, Curriculum Development Committee, St. Joseph's College, Tiruchirappalli (2017-2019)
- ❖ Member in various criteria's of NAAC – SSR preparation of the college for 4 Cycles (Cycle 1,2,3 & 4)

9. Experience : Teaching: 25 years, Research: 28 years.

10. Prize and Recognition

- M.Sc Proficiency Award (1991)
- M.Sc University Rank (1991)
- Best Paper Presentation Award - UGC Sponsored National Symposium on Plant Morphogenesis, Dept. of BioSciences, Sardar Patel University, Gujarat (1997).

11. Government of India Recognition

- ❖ Young Scientist Overseas Fellowships, Department of Biotechnology, Government of India (2006).
- ❖ Young Scientist Award -Dept. of Science and Technology, Government of India (2001).

12. Global competency

- ❖ 120 sessions with GenBank / NCBI, USA
- ❖ Young Scientist Bursary Award, Korean Microscopy Society(2008), S.Korea
- ❖ Young Scientist International mycological Congress, Oslo University, Norway (2002)
- ❖ Young Scientist Bursary Award -The Royal Microscopical Society, Oxford University, UK, (2000).

13. Research Guidance : Ph.D - 8 Awarded, Submitted-1 /M.Phil:50

14. Independent Experience in guiding Research Students (Ph.D)

Name / Reference	Submission	Year of Award	University
Mrs.Dr.S. Kala (17462/Ph.D/Bot/Oct2002)	Sep.2006	20 th April 2007	Bharathidasan
Dr.T. Francis Xavier (13832/Ph.D/Bot/Jan2002)	Aug.2006	26 th April 2007	“
Dr.A.Egbert Selwin Rose (020052/Ph.D/Bot/Jan2004)	May 2008	15 th April 2009	“
Mrs. Dr.R. Sarala (52824/Ph.D/Bot/July2004)	June2009	1 st Dec. 2009	“
Dr.J. Kashmir (17161/Ph.D.1/Mol.Sys./Oct.2008)	Dec.2011	20 th April 2012	“
Mrs.Dr.R. Bhamadevi (31837/Ph.D1/Mol.Sys./Jan2009)	Oct.2012	5 th Oct'2013	“
Mrs. Dr.A.Freeda Rose 38736/Ph.D/K10/Botany/PT/Jan.2014	2019	Dec 2019	“
Dr.Arul (05874/Ph.D/K1/Botany/FT/2015)	April2015	2020	“
Mrs.A. Asha Monica 004860/Ph.DK10/PI.Biotechnology/FT/Jan2019	Nov.2021	Awaiting for viva voce	“

15. List of M.Phil Candidates in Biotechnology

No	Name	University	Year
1	J. Senthilkumar, 2KFT-7730	Bharathidasan	2001
2	S.Sripriya,2353987	MS University	2003
3	D.Gomathi, 02CD-0216	Bharathidasan	2003
4	A.Brinda devi, 2353958	MS University	2003
5	D.Poorani Hopkins, 03CD-1797	Bharathidasan	2003
6	NS.Prabavathi, 03CD-1798	"	2004
7	RSR Priya, 03CD-1429	"	2004
8	A. Rathidevi, 03CD-1454	"	2004
9	K.R.Jeya,03CD-1780	"	2004
10	J.Ramadevi,02CD-0124	"	2004
11	S.Sakthivel, 03CD-1455	"	2004
12	N.Vinotha, 02CD-0248	"	2004
13	S.Jeyachandran, 04CD-13877	"	2005
14	P.Kavitha, 05CD-19567	"	2006
15	S.Sudha, 2K6FT-21326	"	2007
16	C. Dinesh, 066160211	Alagappa	2007
17	C.Diana Dorathi, 2K6FT-21323	Bharathidasan	2007
18	J.Kasmir, 06CD-29001	"	2007
19	K.S.Seethalakshmi	"	2007
20	M.Keerthiga, 2K9FT-34601	"	2010
21	J.Brigit Kavitha, 2K9FT -34599	"	2010
22	S.Punitha 066140064	Alagappa	2010
23	G.N.Vengadeshwari 2K10FT-35821	Bharathidasan	2011
24	U.Abirami, 2K10FT35818	"	2011
25	Y. Santha sheela	"	2011
26	P.Saravanan 12MBT103	"	2013
27	Joy Sebastian Prakash.J	"	2013
28	S.Saranya 12MBT104	"	2013
29	R.Senbagarani, 12MBT109	"	2013
30	S. Arul Delpin Sutha, 14MBT103	"	2015
31	C. Divya, 14MBT104	"	2015
32	R.Ranjani, 14MBT105	"	2015
33	Nivila Mathew, 14MBT106	"	2015
34	Bini Paul, 15MBT102	"	2016
35	R.Thilagavathi, 15MBT103	"	2016
36	A. Asha Monica, 16MBT102	"	2017
37	V. Jino Aancius, 16MBT104	"	2017
38	S.Caroline Green 17MBT101	"	2018

16. List of M.Phil Candidates in Botany

No	Name	University	Year
1	S.Padma, 02CD-0006	Bharathidasan	2003
2	M. Selvanayaki, 2K3FT-10998	"	2004
3	S.Prabhu, 2K4FT-12342	"	2005
4	S.Hema, 05CD-19564	"	2006
5	M.Dhanasekaran, 04CD-13871	"	2006
6	S.Kalpana,05MB0108	"	2006
7	M.Johnson Gritto, 06 CD-29344	"	2007
8	P.Mani, 06CD-29351	"	2007
9	T.J.Shaina, 06MPB101	"	2007
10	S. Sarathamary, 07MPB112	"	2008
11	M.Poyyamozi,08MPB102	"	2009
12	K.Saravanan,08MPB105	"	2009
13	M.Karthik, 12MBO105	"	2013

17. Abroad visit

- ❖ Department of Botany, University of Peradeniya, Srilanka,(1997, 2000;2004)
- ❖ Department of Biotechnology, University of Peradeniya (2005)
- ❖ Department of Biology, York University, UK, (2000;2006)
- ❖ University of Oslo, Norway(2002)
- ❖ International Islamic University, Malaysia(2004)
- ❖ Department of Molecular Biology, National University of Singapore (2004)
- ❖ Jeju National University, Jeju, South Korea, (2008)
- ❖ James Cook University, Townsville, Australia, (2010)
- ❖ Al-Balqa' Applied University, Petra, Jordan,(2012)
- ❖ Bulgarian Academy of Sciences, Bulgaria,(2013)
- ❖ Croatian Microbiological Society, Croatia(2014)
- ❖ Institute of Fundamental Studies, Kandy, Srilanka (2017;2018)
- ❖ University of North Carolina, USA (2014)
- ❖ Rumbaugh –Goodwin Cancer Research Institute, Florida, USA, (2014)
- ❖ University of British Columbia, Vancouver, Canada, (2018)

18. Conference/workshops organized:

- ❖ One Day Workshop on Fluorescence Technology, Department of Botany, St. Joseph's College, Tiruchirappalli, 16th February, 2004.
- ❖ State level workshop on Techniques in Tissue culture and Histochemistry, - Department of Botany, St. Joseph's College, Tiruchirappalli, 16 and 17th September 2004.
- ❖ One day workshop on Grafting Techniques, Organized by Department of Botany, St. Joseph's College, Tiruchirappalli. 19th December, 2013.
- ❖ One Day workshop on Landscape Designing, Organized by Department of Botany, St. Joseph's College, Tiruchirappalli, 10th January, 2014.
- ❖ One Day International Seminar on International scientist meet 15th December 2015.

- ❖ One Day Workshop on Next generation sequencing 10th September 2015.
- ❖ DBT - STAR Scheme Sponsored Workshop on Molecular Taxonomy & Bioinformatics tools 22-29th February 2016.
- ❖ One Day workshop in On-Farm Food processing 11th January 2016.
- ❖ One Day Workshop on Electron Microscopy, Organized by Department of Biotechnology, St. Joseph's College, Tiruchirappalli, 25th July 2016.
- ❖ One Day Workshop on Vertical Gardening. Organized by Department of Botany, St. Joseph's College, Tiruchirappalli, 22nd September 2019.

National and State Level Workshop Attended

1. DBT-GOI sponsored short term training course on Cloning and expression of animal genes, Organized by the School of Studies in Zoology, Jiwaji University, Gwalior, July 15-4th August, 1997.
2. DBT-GOI sponsored short term training course on Bioprocess Engineering with Genetically modified organisms, Organised by Department of Biotechnology, Indian Institute of Technology, Kharagpur, July 14 - July 30th 1999.
3. UGC sponsored Workshop on Indoor Ornamental Horticulture, Landscape Gardening and Fruit Preservation, Conducted by Department of Botany, Jamal Mohammed College, 3rd and 4th February 1990.

4. State level workshop on Mushroom Culture and Vermi Technology, organized by Department of Botany, St. Joseph's College, Tiruchirappalli on 20th December 2004.

5. DBT Sponsored workshop on Uses of Biotechnological tools for bioresource conservation and utilization for sustainable development Organised by the Rapinat Herbarium and Centre for Molecular Systematics, St. Joseph's College, Tiruchirappalli, 06-19th February, 2008.

6. DBT Sponsored workshop on Molecular Methods in Bioresources Conservation for sustainable Development, Organised by the Rapinat Herbarium and Centre for Molecular Systematics, St. Joseph's College, Tiruchirappalli 12-25th November 2008.

7. Molecular Training Programme, Organised by the Rapinat Herbarium and Centre for Molecular Systematics, St. Joseph's College, Tiruchirappalli 17th February -02nd March 2010.
8. State Level workshop on Mushroom Cultivation, organized by Department of Botany, St. Joseph's College, Tiruchirappalli, 18th December 2012.
9. One day state level workshop on Pharmacognostical screening of medicinal plants. Organised by Department of Botany, St. Joseph's College, Tiruchirappalli, 4th March 2013.
10. One day state level workshop on Microbiological and phytochemical techniques, Department of Botany, St. Joseph's College, Tiruchirappalli, 18th December, 2013.
11. Workshop in Plant Taxonomy key preparation, Organised by Department of Botany, St. Joseph's College, Tiruchirappalli, 26th September, 2014.
12. One day Regional level workshop on Vermiculture techniques, organized by Department of Botany, St. Joseph's College, Tiruchirappalli, 12th December, 2014.
13. One day State level workshop on Plant Tissue Culture techniques, Department of Botany, St. Joseph's College, Tiruchirappalli, 22nd December, 2014.
14. One day State level workshop on Plant Taxonomy, Organized by Department of Botany, St. Joseph's College, Tiruchirappalli, 26th February, 2014.
15. Participated in the workshop on Research based pedagogical tools for teachers of undergraduate Colleges, Organised by Indian Institute of Science Education and Research (IISER), Pune, sponsored by British Council and MHRD, Govt. of India. 10-12th March 2018.
16. UGC sponsored one day workshop for the Mentee Institution on Preparation for NAAC Accreditation-A participatory Process. Under UGC –PARAMARSH scheme, organized by IQAC, St. Joseph's College, Tiruchirappalli, 29th September 2021.

UGC –Academic College Refresher Course Attended

1. Five Day Faculty Orientation Course, conducted by Academic Staff College, Bharathidasan University, organized by JJ College of Arts and Science, Pudukottai. 26.05.1997 to 30.05.1997.
2. Orientation Course, organized by Academic Staff College, Bharathidasan University, 05.10.2002 to 01.11.2002.
3. Refresher Course on Bio Sciences, organized by Academic Staff College, Bharathidasan University, 15.11.2005 to 5.12.2005.
4. Special summer School, organized by Academic Staff College, Bharathidasan University, 22.7.2008 to 11.08.2008.

19. RESEARCH SCHEMES - COMPLETED

S. No	Title	Agency	Period
1.	Mass seedling production of endangered and endemic orchid species of Shervaroy's using Mycorrhizal	DST	2001-2003
2.	Popularisation of orchid floriculture among rural masses by the adoption of mycorrhizal fungal technology	DST	2003-05
3.	Mycorrhizal Diversity of Kolli hills, a part of Eastern Ghat's	UGC	2005-06
4.	Co-PI: Rare, Endangered, Threatened Medicinal Plants ex-situ Conservation and Sustainable Utilisation	AYUSH	2008-2011
5.	Co-PI: Study of Ecotypic, Morphological and Genetic variations in Accessions of <i>Morinda citrifolia</i> and its allies from varied ecoclimatic habitats in Tamilnadu using Molecular Tools.	NONI	2008-2011
6.	Ethnomedicinal studies on the Paliyan Tribes and local traditional health practitioners of the Palni hills of Western Ghat's in Tamilnadu,	DST	2008-2011
7.	In glass Technology in Bioresource Conservation	UGC	2015
8.	<i>In vitro</i> and <i>In vivo</i> Methods in Bioresource Conservation	DBT	2015
9.	Diversity and Mycorrhizal Specificity of Vanda and Cymbidium genus (Orchidaceae) of Western and Eastern Ghats	UGC	2015-2018

20. Fellow

- ✚ Fellow of Linnean Society, UK
- ✚ Journal of Swamy Botanical Club
- ✚ International Society for Tissue Engineering, Malaysia

21. Practical Manual Published

- ✚ Hand Book on Fluorescence Microscopy (2003)
- ✚ Manual for Tissue Culture and Histochemistry (2004)
- ✚ Practical Manual for Microbiology- B.Sc (2012)

22. BOOK EDITED (S.John Britto and S.R.Senthilkumar)

- ✚ Diversity of Plants-A Molecular Approach,(2010)
ISBN: 978-81-908503-0-8. The Rapinat Herbarium,

23. Workshop /Training Programme (N/IN) Resource person

S. No	Title of Lecture/practical	Title of the workshop (National/International)	Organizer
1.	Application of Confocal Microscopy (Invited talk and Practical Session)	Detection of Genetically Modified organisms of GM Food 22-24, March 2006	ICGEB (Italy) and UABC, (Srilanka)
2.	Use of Fluorescence Microscopy	UGC-SAP Sponsored Workshop on Histochemical techniques,17-18 Feb,2006	Dept. of Botany, Annamalai University
3.	Orchid Mycorrhiza Invited talk and Practical Session	Short term Training Programme on Identification and use of mycorrhizal fungi in Forestry, 26.5.2009-4.6.2009	Dept. of Agricultural Microbiology, TNAU, Coimbatore
4.	Mycorrhiza and Histochemical techniques	National Workshop on Mycorrhizal system for sustainable Agriculture, March 11-12,2010	Centre for Molecular Biology, Tamilnadu Agricultural University, Coimbatore

24. Papers presented in National level seminars / Symposia / Conferences

1. S. Senthilkumar and K.V.Krishnamurthy 1996. A histochemistry study on the mycorrhizal fungus in the ground orchid, *Spathoglottis plicata* Blume. All India

Symposium on in vitro and in vitro Morphogenesis. October 1996, 11- 12, Sardar Patel University, Gujarat, India.

2. S. Senthilkuma and K.V.Krishnamurthy 1996. An attempt to produce orchid mycorrhizal inoculum in a large scale. X Southern Regional Conference on Microbial Inoculants. December 10-11, Department of Botany, Sri AVVM Pushpam College, Poondi, Tamil Nadu, India.

3. S. Senthilkumar and D.I.Arockiasamy 1996. Role of VAM Fungi on heavy metal toxicity in *Sorghum bicolor* (L.) Moench seedlings. UGC – National Seminar on Recent Advances in Plant Biotechnology, March,26-27, Department of Botany, V.H.N.S.N. College, Virudhunagar, S. India.

4. S. Senthilkumar and K.V.Krishnamurthy 1997. A histochemical study on the cortical cells (*Spathoglottis plicata*) with special reference to mycorrhizal association. UGC-SAP Sponsored National Symposium cum Workshop on Plant Morphogenesis, 29-30 December, conducted by the Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat.

5. S. Senthilkumar, G.N.Vengadeswari and K.V.Krishnamurthy 1998. The structure of the mycorrhizal roots of the epiphytic orchid *Papilionanthe subulata*. National Conference on Recent Trends in Biotechnology and Microbial Research, May 1998, 20 and 21, JJ College of Arts and Science, Pudukkottai, S. India.

6. S. Senthilkumar and M.Sathiyathan 1998. The role of Mycorrhizal colonization in heavy metal resistance. National Conference on Recent Trends in Biotechnology and Microbial Research, May 1998, 20 and 21, JJ College of Arts and Science, Pudukkottai, S. India.

7. S. Senthilkumar and K.V.Krishnamurthy 1998. Mycorrhizal fungi from the roots of *Dentrobium nanum*. National Symposium on Plant Morphogenesis – Biochemical and Molecular Approach. Organised by Department of Biosciences, Sardar Patel University, Gujarat. December 21-22.

8. S. Senthilkumar and N. Valladurai 1999. Observation on the mycorrhizal association in the epiphytic orchid, *Aerides crista*. XI Southern Regional Conference on Microbial Inoculants. February 19-20, Vignan School of Postgraduates Studies, Guntur, Andhra Pradesh.

9. S. Senthilkumar and C.Hariharan 1999. Biochemical studies in the epiphytic orchid, *Aerides maculosum* with reference to mycorrhizal association. XI Southern Regional Conference on Microbial Inoculants. February 19-20, Vignan School of Postgraduates Studies, Guntur, Andra Pradesh.
10. S.Senthilumar and K.V.Krishnamurthy 1999. Mycorrhizal association of the ground orchid *Cymbidium aloifolium*. National Conference on Mycorrhiza. March 5-7. Organised by Institute of Microbiology and Biotechnology, Barkatulla University, Bhopal.
11. S.Senthilkumar and N.Valladurai 1999. Studies on the mycorrhizal orchid *Cymbidium aloifolium*. National Conference on Mycorrhiza. March 5-7. Organised by Institute of Microbiology and Biotechnology, Barkatulla University, Bhopal.
12. S.Senthilkumar and C.Hariharan 1999. Mycorrhizal studies on the epiphytic orchid *Coelogyne prolifera*. National Conference on Mycorrhiza. March 5-7. Organised by Institute of Microbiology and Biotechnology, Barkatulla University, Bhopal.
13. S.Senthilkumar and Sarat Chandra 2000. National Symposium on Biotechnology of Plant Protection. CAS in Botany. Banaras Hindu University, Varanasi, Feb 25-27.
14. S.Senthilkumar and S. John Britto 2001. Sensitivity pattern of bacterial strains on the terrestrial Orchid, *Calanthe triplicata*(Willmet) Ames. 6thNational Seminar on Orchid Diversity in India. Science and Commerce, October 11-13. Organised by Department of Botany, Punjab University, Chandigarh.
15. S.Senthilkumar 2001. Problems and Prospects of Orchid Mycorrhizal Research. . 6thNational Seminar on Orchid Diversity in India. Science and Commerce, October 11-13. Organised by Department of Botany, Punjab University, Chandigarh.
16. S.Senthilkumar 2001. Cellular analysis in the mycorrhizal colonization of some orchids. 6thNational Seminar on Orchid Diversity in India. Science and Commerce, October, 11-13. Organised by Department of Botany, Punjab University, Chandigarh.
17. S.Senthilkumar, T.Francis Xavier and G.Dhanasekaran 2002. Microbial approach of *Malaxis rheedii* sw. UGC Sponsored National Conference on Medicinal plants, their utilisation, cultivation and marketing. Dept. of Botany, Govt. Arts College, Salem. June 26-27.

18. S.Senthilkumar and T.Francis Xavier,2002. Status of orchids in Shevaroy's hills, a part of Eastern Ghats, Tamilnadu. CSIR Sponsored Seminar on Plant Taxonomy in National Development. Dept. of Botany, Goa University, Sep'26&27.
19. S.Senthilkumar and T.Francis Xavier,2002. Mycorrhizal studies of some orchids. Asian Congress of Mycology and Plant Pathology, University of Mysore Oct'1-4.
20. S.Senthilkumar and T.Francis Xavier,2002. Distribution of orchids and their status in Shevaroy's. DST sponsored National Conference on Recent Trends in Plant Science Research, Dept. of Botany, St.Thomas College, Kottayam, Kerala No14-15.
21. T. Francis Xavier, G. Selvakumar and S. Senthilkumar2004. In vitro effect of *Malaxis rheedii* Sw. leaf extracts on *E. coli* mutant strains. National Congress on Biome and Biosciences organized by Muthayammal College of Arts and Science, Rasipuram, Jan 9 &10.
22. S.Senthilkumar.2004. National Seminar on 'Recent Trends in NSS Projects and Programmes' - Organised by Bharathidasan University, Tiruchirappalli - 13-14 March.
23. S.R.Senthilkumar,2005.Participated National Seminar on 'e-Learning and e-Learning Technologies, at Department of Information Technology, Centre for Development of Advanced Computing, Hyderabad during 8-9 August2005.
24. S.R.Senthilkumar.National Seminar on 'Digitalized information exchange for Quality Sustenance and Enhancement among accredited Institutions' - St. Joseph's College (Autonomous), Tiruchirappalli - 3-4 March.
25. S.R.Senthilkumar, 2005. National Seminar on 'Advances in Biology' - Organised by Department of Botany, St. Joseph's College (Autonomous), Tiruchirappalli - 19-20 January.
26. S.R.Senthilkumar.2005. National Seminar on 'Recent Trends in Applied Chemistry' - Organised by Department of Chemistry, St. Joseph's College (Autonomous), Tiruchirappalli - 10-11 January..
27. S.R.Senthilkumar. 2009. National Conference on 'Higher Education and National Development' - Organised by St. Joseph's College (Autonomous), Tiruchirappalli - 30-31January.

25. Campus Achievement

Four times Best Performance Science Department Award-Received (2014, 2015 2016, and 2018), Department of Biotechnology and Botany of St. Joseph's College, Tiruchirappalli.

26. Board of Studies

1. St. Joseph's College, Tiruchirappalli(2007-2009).
2. Bishop Heber College (Autonomous), Tiruchirappalli, (2014)
3. Bharathidasan University, Tiruchirappalli, (2017)
4. Saraboji College (Autonomous), Thanjavur, (2014)
5. Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi, (2017)
6. St. Xavier's College, Palayamkottai, (2021)

27. Review Member

- Asian Journal of Biotechnology, Microbiology and Env. Sciences
- Malaysian Journal of Microbiology
- Ceylon Journal of Science
- Phyta
- Agriculture and Biology Journal of North America
- KBM Scientific Publishing, USA
- The Journal of Plant Genomics - Associate Editor
- International Journal of Agricultural Sciences- Associate Editor
- African Journal of Biotechnology
- AgriScience-An International Academic Journal
- Academic Journal of Pharmacy

28. Papers Presented in International Conferences / Symposia

1. S. Senthilkumar et al.. 1998. Biochemical studies on the mycorrhizal association in the ornamental orchid, *Spathoglottis plicata* and *Papilionanthe subulata*. International symposium on Bio-Industry, Organised by Dept. of Zoology, Sri AVVM Pushpam College, Poondi, January 7-8.
2. S. Senthilkumar et al. 1998. Isolation of bacteria in the prawns of *Penaeus monodon* and *P. indicus*. International symposium on Bio-Industry, Organised by Dept. of Zoology, Sri AVVM Pushpam College, Poondi, January 7-8.
3. S. Senthilkumar and K.V. Krishnamurthy 1998. Structural and biochemical studies of the mycorrhizal orchid *Acampe praemorsa*. International symposium on Microbial biotechnology for sustainable development and productivity. Organised by Dept. of Biological Sciences, Rani Durgavati University, Jabalpur, November 14-16.

4. S. Senthilkumar et al.. 1999. Mycorrhizal status of some orchids of SriLanka. International Conference on Frontiers in Fungal Biotechnology and Plant Pathogens relations. January 16-18. Organised by Department of Botany, Osmania University, Hyderabad.
5. S. Senthilkumar2000. A Cytochemical study of some Srilankan orchids with reference to mycorrhizal association, combined Millennium, Meetint Rhodes University, S. Africa, 23-28 January, p539.
6. S. Senthilkumar2000. Histochemistry of Pelotonic and non pelotonic hyphae of some orchids of India and SriLanka. X1th International congress of Histochemistry and Cytochemistry September 3-8th Organised by Royal Microcopicol Society, University of Oxford, Uk
7. S.Senthilkumar2000. A cytochemical stucy of some Srilankan orchids with reference to mycorrhizal association. Combined Millennium Meeting Rhodes University, S. Africa. 23-28 Jan. p539.
8. S. Senthilkumar2002. Mycorrhizal and Ethanopharmacological value of some threatened orchid species of Shevaroy's, S. India. VII International Mycological Congress,Norway.
9. S.Senthilkumarand T. Francis Xavier 2003. Orchid Resources in Eastern Ghats of South India. International Conference on 'Sustainable Development and Management of Natural Resources'. 15-17 March 2003. Organised by Holy Cross College, Tiruchirappalli, SouthIndia.
10. S.Senthilkumar, T. Francis Xavier and T. Kala 2003. In vitro antibacterial evaluation in *Malaxis rheedii* sw. An orchid used as a traditional medicine in India. International Conference on 'Sustainable Development and Management of Natural Resources'. 15-17 March 2003. Organised by Holy Cross College, Tiruchirappalli, SouthIndia.
11. S.Senthilkumar, 2004. Structural elucidation of peloton lysis using Epi- Flourescence dyes. International Conference on Biomaterials and Tissue Engineering , Kuala Lumpur, Malaysia 24-26thMay.

12. Senthilkumar, S. R. and John Britto, S. 2008. Structural organisation of the mycorrhizal fungi in *Aranda peterewart* - A histochemical Approach. 9th Asia Pacific Microscopy Conference, South Korea.

33 . Significant Publications:

1993-1994

1. S.Senthilkumarand D.I Arockiasamy 1994. Role of vesicular arbuscular mycorrhizae reducing the heavy metal toxicity in *Sorghum bicolor* (L.) Moench with reference to nitrate reduction system. J. Swamy Bot.Cl. 11: 25-27. ISSN 0256-9493

1994-1995

1. S. Senthilkumarand D.I. Arockiasamy 1995. Distribution of zinc in various parts of *Sorghum bicolor* (L.) Moench seedlings in the presence of VAM fungi. Indian Journal of Microbiology 35:185-188. ISSN 0046-8991

1996-1997

2. S. Senthilkumarand K.V. Krishnamurthy 1997. A histochemical study on the cortical cells of *Spathoglotti splicata*with special reference to mycorrhizal association. Plant Morphogenesis 7:77-78

3. S. Senthilkumarand D.I. Arokiasamy 1997. Effect of VAM fungi in alleviating the zinc phytotoxicity in *Sorghum bicolor* (L.) Moench. Ecology, Environment and Conservation 3(3-4):179-182. ISSN No 1945-6492.

4. S. Senthilkumarand K.V. Krishnamurthy 1997. Effect of root knot nematode and mycorrhiza on the growth of ground orchid, *Spathoglotti splicata* Blume Mycorrhiza News 8:13-14. ISSN0970-695X

1997-1998

1. S. Senthilkumarand K.V. Krishnamurthy 1998: The role of root hairs in the mycorrhizal association in the ground orchid, *Spathoglotti splicata* Blume. Mycorrhiza News 10:15-17. ISSN0970-695X

2. K. V Krishnamurthy, R. Nelson and S. Senthilkumar1998. VAM association of Sandal – a hemi root parasite. Mycorrhiza News 9(4):11-12. ISSN 0970- 695X

3. S. Senthilkumarand K.V. Krishnamurthy 1998. A histochemical study on the pelotons in the mycorrhizae of *Spathoglotti splicata* Blume. Biologia Plantarum 41:111-119. ISSN:0006-3134.

4. S. Senthilkumarand G.V. Vengateswari and K.V. Krishnamurthy 1998. Studies on the mycorrhizal association of the ornamental orchid, *Papilonanthe subulata*. Philippine Journal of Science 127: 181-199. ISSN 0001-7688

1998-1999

1. S. Senthilkumar 1999. Mycorrhizal status of some orchids of Sri Lanka. International Conference on Frontiers in Fungal Biotechnology and Plant Pathogens relations. Osmania University, Hyderabad.
2. S. Senthilkumar and K.V. Krishnamurthy 1999. nlz;l;Nuhgpak; ehdk; Mh;fpBd; G+Q;ir Nth; - Xh; Ma;T - tsh;jkpopy; mwptpay;>midj;jpe;jpamwptpay; jkpo;f; fofk; 143-147.
3. S. Senthilkumar 1999. rpk;gpbak; myha;/Nghspak; vDk; G+Q;ir Nth; Mh;fpBd; mikg;gpay; Ma;T. mwptpay; jkpopaf; Nfhit175-178.
4. S. Senthilkumar and K.V. Krishnamurthy 1999: Peroxidase and Acid phosphatase activity in the ground orchid, *Spathoglotti splicata* with special reference to mycorrhiza. Mycorrhiza News 10:11-13. ISSN 0970-695X
5. S. Senthilkumar P. Saravanakumar and P. Sathiyathan 1999. Role of vesicular arbuscular mycorrhizae on nitrate reduction systems and zinc uptake in *Zea mays*. Cylon Journal of Science. 27:27-32. ISSNNO-0366-8460
6. S. Senthilkumar, and K.V. Krishnamurthy 1999. Nuclear changes in host cells colonised by orchid mycorrhizae. Beitrage Bur Biologie der Pflanzen. 71:369- 376. ISSNNo-00058041

1999-2000

1. S. Senthilkumar, K.V. Krishnamurthy, S. John Britto and D.I. Arockiasamy 2000. Visualization of orchid mycorrhizal fungal structure with fluorescence dye using epifluorescence microscopy. Current Science 79:101-103. ISSN NO:0011-3891.
2. S. Senthilkumar 2000. Xg;Gr; nrhptpd;kpf;fcNyhfj;jhYk; Nth;g; G+Q;irfspdhYk; [pahnka;]-y; epfOk; tpisT. Ntshz; mwptpay; tsh;r;rp>midj;jpe;jpamwptpay; jkpo;f; fofk; 255-259.
3. S. Senthilkumar et al. 2000. Biochemical analysis of mycorrhizal roots of *Aerides maculosum*. Phytomorphology 50: 273-279. ISSN0031-9449.
4. K.V. Krishnamurthy, R. Nelson and S. Senthilkumar 2000. Growth stimulation of *Santalum album* seedlings by vesicular arbuscular mycorrhizal fungi. Mycorrhiza News 12: 14-15. ISSN0970-695X
5. S. Senthilkumar, G. N. Vengadeswari and K. V. Krishnamurthy 2000. Endosymbiotic association in the epiphytic orchid *Acampe praemorsa*. Mycorrhiza News. 11:13-15. ISSN0970-695X.
6. S. John Britto and S. Senthilkumar 2000. xj;Japh; tho; Nth; G+Q;irfs; - NtUf;Fk; G+Q;irf;Fk; ,ilNa cs;s njhlh;G. El;gk; (Canada) 40-44.
7. S. Senthilkumar 2000. Histochemistry of Pelotonic and non-pelotonic hyphae of some orchids of India and Sri Lanka. XI International Congress on Histochemistry and Cytochemistry, UK, 117. ISSN No 0018-2214.
8. S. Senthilkumar 2000. A cytochemical study of some Sri Lankan orchids with reference to mycorrhizal colonization. Combined Millennium Meeting, Rhodes University, South Africa, p536.

2000-2001

1. S. Senthilkumar, P. Saravanakumar, K.V.Krishnamurthy and S. John Britto 2001. Morphological and structural features of mycorrhizal roots of *Spathoglotti splicata* and *Dendrobium* species. *Phyta* 5:1-7.
2. M. N.Abubackar, P. Anbu, A. Hilda and S. Senthilkumar2001. Cellulose biodegrative potential of some fungi. *Asian Jr.of Microbiol. Biotech. & Environment. Sci.* 3: 49- 51. ISSN 0972-3005
3. S. Senthilkumar, M.N.Abubackar and S. Bagyalakshmi 2001. Study of antibiotic sensitivity pattern of common bacteria isolated from clinical materials. *Asian Jr.of Microbiol. Biotech. & Environment. Sc.* 3(4): 321-325. ISSN0972-3005
4. S.Senthilkumarand S.John Britto 2001. Morphological and cytochemical study of the pelotonic and non-pelotonic hyphae of the *Spathoglotti splicata*. *Mycorrhiza News*,13:16-19. ISSN0970-695X.
5. S.John Britto and S.Senthilkumar2001. Antibacterial activity of *Solanum inicanum* L. leaf extract. *Asian Jr. of Microbial. Biotech. & Environment.Sci.*3: 65-66. ISSN0972-3005
6. S. John Britto and S. Senthilkumar2001. Studies of sculpture patterns in some species of *Crotalaria* family Fabaceae. *Phyta* 5:25-29.
7. S. Senthilkumar2001. Problems and Prospects of Orchid Mycorrhizal Research. *J. Orchid Soc. India.* 15:23-32. ISSN0971-5371

2001-2002

1. S. Senthilkumar, S. John Britto, K.V. Krishnamurthy and D.I.Arockiasamy 2002. Cytochemical characterization of the orchid mycorrhizal fungus *Rhizoctonia oryzaesativae*. *Mycorrhiza News* 13: 19-21. ISSN0970-695X
2. S. Senthilkumar2002. Mycorrhizal and Ethanopharmacological value of some threatened orchid species of Shevaroy's, S. India. VII International Mycological Congress,Norway.
3. S. Senthilkumarand S. John Britto. 2002. The Pattern of fungal lysis in some orchids. *Ceylon Journal of Science* 29:63-67. ISSN 0069-2379
4. S. Senthilkumar, S. John Britto and S.Valladurai. 2002. Studies on the Mycorrhizal roots of *Aerides crispa*. *Asian Jr. of Microbial. Biotech. & Environment* 4: 465-469. ISSN0972-3005
3. S. John Britto and S. Senthilkumar2002. Sensitivity pattern of bacterial strains on the terrestrial orchid, *Calanthe triplicata* (Willemet) Ames. extracts: A Study in vitro. *J. Orchid Soc. India* 16: 19-23. ISSN 0971-5371

2002-2003

1. S. Senthilkumar, T. Francis Xavier and S. Natarajan 2003. Antibacterial activity of *Alangiumsalvifolium* leaf extracts. *Journal of Tropical Medicinal Plants* 4: 9-14. ISSN No:1511-8525
2. S. Senthilkumar 2003. Mycorrhizal fungi of endangered orchid species in Kolli, a part of Eastern Ghats, S. India. *Lankesteriana* 7: 155-156. ISSN 01409- 3871.
3. S. John Britto and S. Senthilkumar 2003. Medicinal Orchids in the Eastern Ghats (TN), India. *Orchid News* 19: 13-17. ISSN 0971-5371
4. T. Francis Xavier, S. Senthilkumar, A. Okoh and E. Natarajan 2003. Inhibition of *Aspergillus flavus* by *Tinospora cordifolia* (Willd.) Hook. F. & Thomson leaf extracts. *Science Focus (Nigeria)* 5: 56-59. ISSN 15967026
5. T. Francis Xavier, S. Senthilkumar and A. Okoh 2003. Antibacterial activity of *Malaxis rheedii* Sw. an ornamental orchid of Shevaroy region of Eastern Ghat's, S. India. *Science Focus (Nigeria)* 5: 82-88. ISSN 15967026

2003-2004

1. S. Senthilkumar 2004. Structure Elucidation of Peloton Lysis Using Epi-Fluorescence Dyes. *Malaysian Journal of Medical Sciences*, 59: 218-219. ISSN 0300-5283
2. S. Senthilkumar 2004. Study of polyphenols and sensitivity pattern of bacterial strains against *Oberonia verticillata* Wight. extracts. A study in vitro. Ninth International Congress of Ethnobiology. Univ. of Kent, UK.
3. T. Francis Xavier and S. Senthilkumar 2004. In vitro sensitivity of *E. coli* mutants to *Malaxis rheedii* - a medicinal orchid of Kolli hills, S. India. *J. Swamy Botanical Club*. 21: 47-50. ISSN 0256-9493
4. S. Senthilkumar 2004. Cytochemistry and Cytophotometric determination of the nuclear content of *Gastrochillus acaulis* and *Bulbophyllum kaitense*. *Journal of Histochemistry Cytochemistry*, 52:64
5. S. Senthilkumar and S. John Britto, 2004. Molecular interactions in the establishment of arbuscular mycorrhiza. *Retell* 5(1):1-4.
6. S. Senthilkumar and S. John Britto, 2004. In vitro seed germination, protocorm growth and development *Dendrobium aquareum* Dindl.. *Retell* 5(1): 5-9.

2004-2005

1. Senthilkumar S. and S. John Britto 2005. Fluorescence -A potential tool for molecular study. *Laser in Technol. Biomedical App.* 24-25.
2. S. John Britto, K. Prabakaran and S. Senthilkumar, 2005. Biology Agroforestry and Medicinal value of *Calophyllum phyllum* L. - A review. *Retell* 5(2): 1-12. ISSN No:0973-404X
3. S. Senthilkumar and S. John Britto, 2005. Biosynthesis and metabolism of phenolics. *Retell* 5(2): 13-17. ISSN No:0973-404X

4.A. Egbert Selwin Rose and S. Senthilkumar, 2005. Mycorrhizas in Ericaceae - A Review. Retell 5(2): 39-44. ISSN No:0973-404X

5.K.V.Krishnamurthy and S.Senthilkumar2005. Orchid Mycorrhiza In: Mycorrhizas: Role and Applications (ed) V.S.Mehrotra, Alliled Publishers, New Delhi. pp 66-90.

6. Praphu,S., Senthilkumar,S., Johnbritto , S and R.Sarala 2005. Study on comparative anatomy of some orchids. Retell 6(1) 89-95. ISSN No:0973-404X

2005-2006

1. Robinson, J., Britto, S., Sebastinraj, J., Vinothkumar, D. and Senthilkumar, S. 2006. Micropropagation of *Emilia zeylanica* C. B. Clarke by using explants of inflorescence rachis. J. Biol. Res. 5: 109-113. ISSN No: 0976-285X

2.Sebastinraj, J., John Britto, S., Robinson, J., Vinothkumar, D. and Senthilkumar, S., 2006. In vitro seed germination and plantlet regeneration of *Coelogyne mossiae* Rolfe. J. Biol. Res. 5: 79-84. ISSN No: 0976-285X

3.T. Francis Xavier and S. Senthilkumar. 2006. Susceptibility of Bacterial pathogens to *Seidenfia rheedii* leaf extracts, Journal of Tropical Medicinal plants, Malaysia, 7(2):185-188.

2006- 2007

4. Francis Xavier, T. and Senthilkumar, S. 2007. Management and conservation of medicinal orchids of Eastern Ghats of Tamil Nadu, South India. J. Econ. Taxon.Bot. 31: 417-422. ISSN1811-9700

2007-2008

1. Senthilkumar, S. R. and John Britto, S. 2008. Structural organization of the mycorrhizal fungi in *Aranda peterewart* - A histochemical Approach. 9th Asia Pacific Microscopy Conference, South Korea.

2008-2009

1.Senthilkumar, S. R. and John Britto, S. 2009. Mycorrhizal features of federally threatened *Vanda testacea* (orchidaceae) with reference to histochemical and confocal approach.22nd New Phytologist Symposium on Effectors in plant-microbe interactions, INRA Versailles Research centre, Paris, p63.

2.Shanmugapriya,R, Senthilkumar, S. R. and John Britto, S. 2009. Antibacterial studies of *Vanda coerulea* Griff.exLindl- an in vitro approach. Agriculture and Biology Journal of North America. 20: 1-3 ISSN:2151-7517. ISSN2151-7517

3.Francis Xavier, T. and Senthilkumar, S. R. 2009. An evaluation of antibacterial activities of *Seidenfia rheedi* (Sw.). African Journal of Biotechnology. Vol. 8 (23), pp. 6608-6611.

4. Robinson, J., Britto, S., and Senthilkumar, S. 2009. Comparative anatomical studies on *Emilia zeylanica* with in vitro regenerated plants. *Scientific Res.*4(3):140-143.

5. Vinothkumar, D., J. Britto, S. and Senthilkumar, S. 2009. Callus regeneration from stem explants of *Pseudothira viscida* vulnerable medicinal plant. *African journal of Biotechnology.*8:4048-4051. ISSN 1684-5315

2009-2010

1. Sudha, S., Senthilkumar SR, John Britto, S. Paul Sharma, Manju. P and Mary Densilin 2010. A novel genomics approach for identification of therapeutic targets in *Leptospira interrogans*. *Asian Jr. of Microbiol. Biotech. & Environment. Science.*12: 333-336. ISSN 0972-3005

2. Kochuthressia, K.P. John Britto, S. Joelri Michael Raj, L. Jaseentha, M.O and Senthilkumar, S.R. 2010. Efficient regeneration of *Alpinia purpurara* (Vieill.) K. Schum. plantlets from rhizome bud explants. *International Research Journal of Plant Science* 1(2):43-47. ISSN 2141-5447

3. Kochuthressia, K.P. John Britto, S. Jaseentha, M.O. Joelri Michael Raj, L. and Senthilkumar, S.R. 2010. Antimicrobial efficacy of extracts from *Alpinia purpurara* (Vieill.) K. Schum against human pathogenic bacteria and fungi. *Agriculture and Biology Journal of North America.* 6: 1249-1252 doi.10.5251. ISSN 2151-7517

4. Kala, S. and Senthilkumar, SR. 2010. Antimicrobial activity of *Acanthephippium bicolor*, L. *Malaysian Journal of Microbiology,* 6: 140-148. ISSN 2231-7538.

2011-2012

1. Prabu, S. John Britto, S, Thangavel, P, Joelri Michael Raj, L. and Senthilkumar, S.R. 2011. Antibacterial and antioxidant activity of leaves of *Canavalia mollis* Wight & Arn, *International Journal of Pharmaceutical Sciences and Research.* 2: 109-115. ISSN 0975-7538.

2. L. Joelri Michael Raj, John Britto, S, Prabu, S and Senthilkumar, SR. 2011. Phylogenetic relationship of *Crotalaria* species based on seed protein polymorphism revealed by SDS-PAGE. *International Research Journal of Plant Science.* 2:119-128. ISSN:2141-5447

3. J. Kasmir, Senthilkumar, SR and John Britto, S. 2011. Studies on the mycorrhizal roots of *Anoectochilus elatus* Lindl. *International Research Journal of Microbiology.* 2:163-166. ISSN:2141-5463

4. L. Joelri Michael Raj, John Britto, S, Prabu, S and Senthilkumar, SR. 2011. Identification of agronomically valuable species of *Crotalaria* based on phonetics. *Agriculture and Biology Journal of North America.* 2: 840-847 doi.10.5251. ISSN: 2141-5463

5. Prabu, S. John Britto, S, Thangavel, P, Joelri Michael Raj, L. and Senthilkumar, S.R. 2011. Antibacterial and antioxidant activity of leaves of *Canavalia mollis* Wight & Arn,

International Journal of Pharmaceutical Sciences and Research. 2: 95-101. ISSN: 0975-8232.

6.J.Kasmir, Senthilkumar, SR, John Britto,S and Joelri Michael Raj, L. 2011. Identification of fungal endophytes from Orchidaceae members based on nrITS (Internal Transcribed Spacer) region. International Research Journal of Biotechnology. 2 (6):139-144. ISSN:2141-5153

2012-2013

1.R.Sarala and Senthilkumar, SR. 2012. Confocal studies of arbuscular mycorrhizal fungi colonizing the sporophyte of *Botrychium daucifolium* Wall., a rare fern of India. International Journal of Life sciences &Pharma Research.2:9-14. Biotechnology. 2 (6):139-144. ISSN No.: 2250-3137.

2016-2017

1.Senthilkumar SR, Joelri Michael Raj L, Gomathi. G and Ranjani. R. 2016. DNA Sequencing of *Cymbidium bicolor* Lindl. Using trnL-F Intergenic Spacer. International Journal of Innovative Research in Science,Engineering and Technology 5:4826-4829. ISSN No. : 2319-8753.

2. Senthilkumar SR, Joelri Michael Raj L and Gomathi. G. 2016. Morphotypes of Mycorrhizal Fungi of Cymbidium Species. International Journal of Pure and Applied Biosciences 4 (4): 174-178. ISSN No. : 2320 -7051.

3. SenthilKumar SR, Joelri Michael Raj L, Gomathi. G and Divya.C. 2016. DNA Sequencing of *Aerides maculosa* Lindl. using trnl-f intergenic spacer-a novel approach. International Multidisciplinary E-Journal 5(3): 11-15. ISSN No. : 2277-4262

4.Senthilkumar SR, Joelri Michael Raj L and Gomathi. G.2016. Morphotypes of Mycorrhizal Fungi of *Vanda* Species. International Journal of Applied Sciences 3(3):363-369. ISSN No. : 2455-4499.

2018-2019

1.Senthilkumar SR, Francis Xavier, Gomathi, JinoAancius and Asha Monica G.2018. Molecular characterization of mycorrhizal fungi isolated from the roots of *Cymbidium* species. World Journal of Pharmaceutical Research.7(10):.ISSN 2277-7105. DOI:10.20959/wjpr201810-12259.

2.Priyanka,M., and. Mani Panagal., Sivakumar.,P., Vincent Gopinath., Ananthavalli,R., Karthigeyan,M.,Sivagurunathan, P., Senthilkumar,S.R., and DurairajSekar. 2018. Identifications, expression and methylation of miR-7110 and its involvement in type 1 diabetes mellitus. Gene Reports. 11:229-234.<https://doi.org/10.1016/J.generep.2018.03.015>.

3. Mani Panagal, Senthilkumar,S.R.Sivaguruathan,P.Biruntha M, Karthigeyan, M.Vincent,Gopinath,Sivakumar,P. and Durairaj sekar,.2018. MicroRNA21 and the various types of myeloid leukemia. Cancer Gene Therapy. Nature America, Inc. part of Springer Nature.<https://doi.org/10.1038/s41417-018-0025-2>.

2019-2020

1. Phytochemical Analysis, Anti-Microbial and Anti-Oxidant Activity Of *Ocimum Basilicum* - Asha Monica A. And Senthilkumar S. R. World Journal of Pharmaceutical and Life Science. Volume Issue 2 [ISSN 2454-2229]
2. Green synthesis and characterization of silver nanoparticles from *Ocimum basilicum* and their antimicrobial antioxidant and anticancer activity - Research Journal of Pharmacy and Technology Vol.:13, Issue:12, December, 2020. [ISSN 0974-360X]
3. Molecular Docking Analysis of Bioactive Compounds from *Ocimum basilicum* Aqueous Leaf Extract against Estrogen Receptor - Bulletin of Environment, Pharmacology and Life Sciences Volume 9 [3] 2020. [ISSN 2277-1808]

34. NATIONAL CENTRE FOR BIOTECHNOLOGY INFORMATION

2019

Ocimum americanum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplastGenBank: MN660046.1

Ocimum tenuiflorum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplastGenBank: MN660047.1

Ocimum gratissimum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplastGenBank: MN660048.1

Ocimum basilicum ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (RbcL) gene, partial cds; chloroplastGenBank: MN186585.1

Ocimum tenuiflorum trnH-psbA intergenic spacer region, partial sequence; chloroplastGenBank: MN239512.1

Ocimum basilicum trnH-psbA intergenic spacer region, partial sequence; chloroplast GenBank: MN816238

Ocimum americanum trnH-psbA intergenic spacer region, partial sequence; chloroplast GenBank: MN755613

Ocimum tenuiflorum trnH-psbA intergenic spacer region, partial sequence; chloroplast GenBank: MN239512

Ocimum gratissimum trnH-psbA intergenic spacer region, partial sequence; chloroplast GenBank: MN816239

Ocimum basilicum TrnL-TrnF intergenic spacer region, partial sequence; chloroplast GenBank: MN816237

Ocimum americanum TrnL-TrnF intergenic spacer region, partial sequence; chloroplast GenBank: MN816234

Ocimum tenuiflorum TrnL-TrnF intergenic spacer region, partial sequence; chloroplast GenBank: MN816235

Ocimum gratissimum TrnL-TrnF intergenic spacer region, partial sequence; chloroplast
GenBank: MN816236

Tulasnella sp. isolate 1.1 large subunit ribosomal RNA gene, partial sequence

GenBank: MH468786

Tulasnella sp. isolate 1.3 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence

GenBank: MH479402

Tulasnella sp. isolate 1.5 large subunit ribosomal RNA gene, partial sequence

GenBank: MH479403

Tulasnella sp. isolate 1.6 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence. GenBank: MH479404

Tulasnella sp. isolate 1.7 5.8S ribosomal RNA gene, partial sequence; internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence. GenBank: MH479405

2018

Vanda tessellata isolate *Epulorhiza* sp. 1.2 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence. GenBank: MK322733

Vanda tessellata isolate *Epulorhiza* sp. 1.5 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence

GenBank: MK322736.1

Vanda tessellata isolate *Epulorhiza* sp. 1.4 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1 and 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence GenBank: MK322737.1

Vanda tessellata isolate *Epulorhiza* sp. 1.1 internal transcribed spacer 1, partial sequence GenBank: MK322735.1

Vanda tessellata isolate *Epulorhiza* sp. 1.3 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence GenBank: MK322734.1

Ceratobasidium sp. isolate kcac4 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence

GenBank: KY945488.1

Ceratobasidium cereale isolate cacc5 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence GenBank: KY945489.1

Ceratobasidium cereale isolate Kodaikannal internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence GenBank: MGO02431.1

Ceratobasidium cereale isolate Shervaroy Hills internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence GenBank: MGO02433.1

Ceratobasidium ramicola isolate Kolli Hills 5.8S ribosomal RNA gene, partial sequence; internal transcribed spacer 2, complete sequence; and large subunit ribosomal RNA gene, partial sequence GenBank: MGO02434.1

Tulasnella sp. isolate 1.2 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence

GenBank: MH479401.1

Vanda testacea ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast GenBank: MF446877.1

Vanda testacea ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast GenBank: MF446878.1

Vanda tessellata ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast GenBank: MF446879.1

Vanda tessellata ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast GenBank: MF446880.1

Cymbidium aloifolium ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast GenBank: MF446882.1

Vanda tessellata ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast GenBank: MF446884.1

Vanda spathulata pbs A-trnH intergenic spacer, partial sequence; chloroplast

GenBank: MF446881.1

UNVERIFIED: *Cymbidium bicolor* PsbA-like gene and pbsA-trnH intergenic spacer, partial sequence; chloroplast GenBank: MF446883.1

2017

- Uncultured Bacterium clone MN04--16S ribosomal RNA gene, partial sequence, KX059328.1
- Uncultured Bacterium clone MN02--16S ribosomal RNA gene, partial sequence, KX059329.1
- Uncultured Bacterium clone RAZ02--16S ribosomal RNA gene, partial sequence, KX059330.1
- Uncultured Bacillus sp clone RAZ01 -16S ribosomal RNA gene, partial sequence, KX059331.1
- Uncultured Bacillus sp clone RAZ03-16S ribosomal RNA gene, partial sequence, KX059332.1
- Uncultured Bacterium clone MAV04--16S ribosomal RNA gene, partial sequence, KX059333.1
- Uncultured Pseudomonas sp clone MAV03-16S ribosomal RNA gene, partial sequence, KX059334.1
- Uncultured Acinetobacter sp clone MAV01-16S ribosomal RNA gene, partial sequence, KX059335.1
- Uncultured Pseudomonas sp. clone MAV02--16S ribosomal RNA gene, partial sequence, KX059336.1
- Uncultured Bacterium clone MA05-16S ribosomal RNA gene, partial sequence, KX059337.1
- uncultured Brevibacteriumsp clone MJCO1 -16S ribosomal RNA gene, partial sequence, MF289386.1
- Uncultured Bacillus sp clone MJCO2-16S ribosomal RNA gene, partial sequence, MF289387.1
- Uncultured Bacillus sp clone MJCO3-16S ribosomal RNA gene, partial sequence, MF289388.1
- Uncultured Brevibacteriumsp clone MJCO4-16S ribosomal RNA gene, partial sequence, MF289389.1
- Uncultured bacterium clone MJCO5-16S ribosomal RNA gene, partial sequence, MF289390.1
- Uncultured Bacillus sp clone MJCO6-16S ribosomal RNA gene, partial sequence, MF289391.1
- Uncultured Bacillus sp clone MJCO7-16S ribosomal RNA gene, partial sequence, MF289392.1
- Uncultured Bacillus sp. clone MJCO8 16S ribosomal RNA gene, partial sequence GenBank: MF289393.

- Uncultured *Bacillus* sp clone MJC09-16S ribosomal RNA gene, partial sequence, MF289394.1
- Uncultured *Bacillus* sp clone MJC10-16S ribosomal RNA gene, partial sequence, MF289395.1
- Uncultured *Bacillus* sp clone MJC11-16S ribosomal RNA gene, partial sequence, MF289396.
- Uncultured bacterium clone MJC12-16S ribosomal RNA gene, partial sequence, MF289397.1
- Uncultured *Brevibacterium* sp clone MJC13 -16S ribosomal RNA gene, partial sequence, MF289398.1
- Uncultured *Bacillus* sp clone MJC14-16S ribosomal RNA gene, partial sequence, MF289399.1
- Uncultured *Bacillus* sp clone MJC15-16S ribosomal RNA gene, partial sequence, MF289400.
- Uncultured *Bacillus* sp clone MJC16-16S ribosomal RNA gene, partial sequence, MF289401.
- Uncultured *Bacillus* sp. clone MJC17 16S ribosomal RNA gene, partial sequence GenBank: MF289402
- Uncultured *Bacillus* sp. clone MJC18 16S ribosomal RNA gene, partial sequence GenBank: MF289403
- Uncultured *Streptomyces* sp clone MJC19-16S ribosomal RNA gene, partial sequence, MF289404.
- Uncultured *Streptomyces* sp. clone MJC20 16S ribosomal RNA gene, partial sequence GenBank: MF289405
- Uncultured *Streptomyces* sp clone MJC21-16S ribosomal RNA gene, partial sequence, MF289406.1
- Uncultured *Streptomyces* sp clone MJC22-16S ribosomal RNA gene, partial sequence, MF289407.1

2016

- Acremonium fusidioides* strain SJCBT-F01 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence. ACCESSION KU837239
- Thielaviopsis paradoxa* strain SJCBT-F03 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence ACCESSION KU837240

- *Fusarium sacchari* strain SJCBT-Fo2 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence
ACCESSION KU837241
- *Bipolaris oryzae* strain SJCBT-Fo4 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence
ACCESSION KU837242
- *Curvularia oryzae* strain SJCBT-Fo5 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence
ACCESSION KU837243
- *Rhizopus oryzae* strain SJCBT-Fo6 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence
ACCESSION KU837244

2013

- Unverified: *Alstonia venenata* voucher RHT56089 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244725; Version KC244725.1 GI:448588346-237pb
- Unverified: *Alstonia venenata* voucher RHT56091 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244726; Version KC244726.1 GI:448588347-237pb
- Unverified: *Alstonia venenata* voucher RHT56112 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244727; Version KC244727.1 GI:448588348-236pb
- Unverified: *Alstonia venenata* voucher RHT56113 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244728; Version KC244728.1 GI:448588349-237pb
- Unverified: *Alstonia venenata* voucher RHT56123 psbK-psbI intergenicspacer partial sequence: chloroplast GenBank KC244729; Version KC244729.1 GI:448588350-237pb
- Unverified: *Alstonia venenata* voucher RHT56177 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244730; Version KC244730.1 GI:448588351-237pb
- Unverified: *Alstonia venenata* voucher RHT64919 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244731; Version KC244731.1 GI:448588352-236pb
- *Alstonia venenata* voucher RHT56089 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244732; Version KC244732.1 GI:448588401-408pb
- *Alstonia venenata* voucher RHT56091 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244733; Version KC244733.1 GI:448588402-389pb
- *Alstonia venenata* voucher RHT56112 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244734; Version KC244734.1 GI:448588403-389pb

- *Alstonia venenata* voucher RHT56113 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244735; Version KC244735.1 GI:448588404-389pb
- *Alstonia venenata* voucher RHT56123 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244736; Version KC244736.1 GI:448588405-389pb
- *Alstonia venenata* voucher RHT56177 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244737; Version KC244737.1 GI:448588406-408pb
- *Alstoniavenenata* voucher RHT64919 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244738; Version KC244738.1 GI:448588407-398pb
- *Celastrus paniculatus* voucher RHT56102A psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244739; Version KC244739.1 GI:448588432-461pb.
- *Celastrus paniculatus* voucher RHT56130A psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244740; Version KC244740.1 GI:448588433-463pb.
- *Celastrus paniculatus* voucher RHT56167 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244741; Version KC244741.1 GI:448588434-462pb.
- *Celastrus paniculatus* voucher RHT56167A psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244742; Version KC244742.1 GI:448588435-462pb.
- *Celastrus paniculatus* voucher RHT56168 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244743; Version KC244743.1 GI:448588436-464pb.
- *Celastrus paniculatus* voucher RHT56169 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244744; Version KC244744.1 GI:448588437-462pb.
- *Celastrus paniculatus* voucher RHT64912 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244745; Version KC244745.1 GI:448588438-462pb.
- *Celastrus paniculatus* voucher RHT64913 psbK-psbI intergenic spacer, partial sequence: chloroplast GenBank KC244746; Version KC244746.1 GI:448588439-462pb.
- *Celastrus paniculatus* voucher RHT56102A trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244747; Version KC244747.1 GI:448588461-357pb.
- *Celastrus paniculatus* voucher RHT56130 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244748; Version KC244748.1 GI:448588462-359pb.
- *Celastrus paniculatus* voucher RHT56167 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244749; Version KC244749.1 GI:4485884623-360pb

- *Celastrus paniculatus* voucher RHT56167A trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244750; Version KC244750.1 GI:448588464- 353pb
- *Celastrus paniculatus* voucher RHT56169 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244752; Version KC244752.1 GI:448588466-354pb
- *Celastrus paniculatus* voucher RHT64912 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244753; Version KC244753.1 GI:448588467-360pb
- *Celastrus paniculatus* voucher RHT64913 trnL-trnF intergenic spacer, partial sequence: chloroplast GenBank KC244754; Version KC244754.1 GI:448588468-357pb
- *Elaeocarpus munroii* voucher RHT56110 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244755.1; Locus JF244755 GI:448588497 -250pb.
- *Elaeocarpus* sp.voucher RHT56155 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244756.1; Locus JF244756 GI:448588498 -277pb.
- *Strobilanthes* sp.RHT56162 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244757.1; Locus JF244757 GI:448588499 -355pb.
- *Strobilanthes* sp.voucher RHT56163 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244758.1; Locus JF244758 GI:448588500 -358pb.
- *Salacia* sp.voucher RHT56164 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244759.1; Locus JF244759 GI:448588501 -429pb.
- *Morindaum bellata*.voucher RHT56175 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244760.1; Locus JF244760 GI:448588502 -293pb.
- *Maytenus* sp.voucher RHT56176 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244762.1; Locus JF244762 GI:448588504 -398pb.
- *Olox* sp.voucher RHT56178 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244763.1; Locus JF244763 GI:448588505 -361pb.
- *Clausena* sp.voucher RHT56179 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244764.1; Locus JF244764 GI:448588506 -350pb.
- *Lepisanthes senegalensis* .voucher RHT64916 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244765.1; Locus JF244765 GI:448588507 -333pb.
- *Clausena* sp.voucher RHT64918 trnL-trnF intergenic spacer, partial sequence: plastid GenBank KC244766.1; Locus JF244766 GI:448588508 -393pb.

2011

- *Morinda citrifolia* var. *citrifolia* voucher RHT56006 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF437607.1; Locus JF437607 GI:326369283 - 386pb.
- *Buchanania axillaris* voucher RHT56087 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF437608.1; Locus JF437608 GI:326369284-380pb.

- *Alstonia venenata* voucher RHT56090 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF437609.1; Locus JF437609 GI:326369285-354pb.
- *Nothapodytes nimmoniana* voucher RHT56096 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF437610.1; Locus JF437610 GI:326369286-386pb.
- *Toddalia asiatica* voucher RHT56097 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF437611.1; Locus JF437611 GI:326369287-347pb.
- *Elaeocarpus recurvatus* voucher RHT56114 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF437612.1; Locus JF437612 GI:326369288-354pb.
- *Elaeocarpus recurvatus* voucher RHT56125 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF437613.1; Locus JF437613 GI:326369289-363pb.
- *Liparis nervosa* voucher RHT56138 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF437614.1; Locus JF437614 GI:326369290-394pb.
- *Celastrus paniculatus* voucher RHT56086 tRNA-Leu (trnL)gene, partial sequence;trnL-trnF intergenic spacer, complete sequence; andtRNA-Phe (trnF)gene,Partial sequence GenBank JF297590; version JF297590 .1 GI:325930165-404pb
- *Celastrus paniculatus subsp.paniculatus* voucher RHT56098 tRNA-Leu (trnL)gene, partial sequence;trnL-trnF intergenic spacer, complete sequence; andtRNA-Phe (trnF)gene,Partial sequence GenBank JF297591; version JF297591.1 GI:325930165-404pb
- *Celastrus paniculatus subsp.paniculatus* voucher RHT56099 tRNA-Leu (trnL)gene, partial sequence;trnL-trnF intergenic spacer, complete sequence; andtRNA-Phe (trnF)gene,Partial sequence GenBank JF297592; version JF297592.1 GI:325930167-404pb
- *Celastrus paniculatus subsp.paniculatus* voucher RHT56102 tRNA-Leu (trnL)gene, partial sequence;trnL-trnF intergenic spacer, complete sequence; andtRNA-Phe (trnF)gene,Partial sequence GenBank JF297593; version JF297593.1 GI:325930168- 404pb
- *Celastrus paniculatus subsp.paniculatus* voucher RHT56118 tRNA-Leu (trnL)gene, partial sequence;trnL-trnF intergenic spacer, complete sequence; andtRNA-Phe (trnF)gene,Partial sequence GenBank JF297594; version JF297594.1 GI:325930169- 404pb
- *Celastrus paniculatus subsp.paniculatus* voucher RHT56130 tRNA-Leu (trnL)gene, partial sequence;trnL-trnF intergenic spacer, complete sequence; andtRNA-Phe (trnF)gene,Partial sequence GenBank JF297595; version JF297595.1 GI:325930170-404pb
- *Crotalaria mysorensis* voucher RHT56057 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF304304; version F304304.1 GI:323650770-339pb.
- *Crotalaria walker* voucher RHT56061 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF304305; version F304305.1 GI:323650771-357pb

- Crotalaria weightiana* voucher RHT56062 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF304306; version F304306.1 GI:323650772-367pb
- Crotalaria lunata* voucher RHT56066 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF304307; version F304307.1 GI:323650773-335pb
- Crotalaria pulchra* voucher RHT56068 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF304308; version F304308.1 GI:323650774-353pb
- Crotalaria juncea* voucher RHT56071 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF304309; version F304309.1 GI:323650775-332pb
- Crotalaria verrucosa* voucher RHT56076 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF304310; version F304310.1 GI:323650776-339pb
- Crotalaria grahamiana* voucher RHT56077 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF304311; version F304311.1 GI:323650777-337pb
- Crotalaria juncea* voucher RHT56079 trnL-trnF intergenic spacer, partial sequence: chloroplast. GenBank JF304312; version F304312.1 GI:323650778-332pb

2010

- Aspergillus terreus* isolate SJCFBKeo1 internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence ACCESSION GU564260
- Aspergillus terreus* isolate SJCFG Ae02 internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence ACCESSION GU564261
- Penicillium aculeatum* isolate RHTFDNe01 internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence ACCESSION GU564262
- Aspergillus terreus* isolate RHTFGDe03 internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence ACCESSION GU564263
- Canavalia mollis* voucher RHTCMo4 trnL-trnF intergenic spacer, partial sequence; chloroplast. GenBank: HM587710.
- Canavalia rosea* voucher RHTCRo6 trnL-trnF intergenic spacer, partial sequence; chloroplast. GenBank: HM587711.
- Crotalaria spectabilis* voucher RHT56064 trnL-trnF intergenic spacer, partial sequence; chloroplast. GenBank: HM208335.
- Crotalaria lunata* voucher RHT56060 trnL-trnF intergenic spacer, partial sequence; chloroplast. GenBank: HM208336
- Crotalaria medicaginea* voucher RHT56058 trnL-trnF intergenic spacer, partial sequence; chloroplast. GenBank: HM996994

- Crotalaria grahamiana* voucher RHT56059 trnL-trnF intergenic spacer, partial sequence; chloroplast.GenBank: HM996995.
- Crotalaria mysorensis* voucher RHT56067 trnL-trnF intergenic spacer, partial sequence; chloroplast GenBank: HM996996.
- Crotalaria madurensis* voucher RHT56070 trnL-trnF intergenic spacer, partial sequence; chloroplast GenBank: HM996997
- Crotalaria pallida* var. obovata voucher RHT56073 trnL-trnF intergenic spacer, partial sequence; chloroplast GenBank: HM996998
- Crotalaria verrucosa* voucher RHT56074 trnL-trnF intergenic spacer, partial sequence; chloroplast GenBank: HM996999.
- Crotalaria retusa* voucher RHT56075 trnL-trnF intergenic spacer, partial sequence; chloroplast. GenBank: HM997000.

35. Memorandum of Understanding (MoU) signed

Years	Institute
2014-15	Indian Academy Degree College, Bangalore
	NIST Institute Private Limited, Chennai
	St. Joseph's College (Autonomous), Bangalore
	Andhra Loyola College (Autonomous), Vijayawada
	M/S Panopharm Feltham House, Mumbai
	Cotton College, Assam
	Bharath College of Science and Management, Thanjavur
2015-16	K.S. Varier's Ashtanga Ayurvedics (P) Ltd, Trichy
	Centre for Alleviation of Poverty Through Sustainable Agriculture (CAPSA), Indonesia
	Mount Carmel College, Bangalore
	Indian Institute of Crop Processing Technology (IICPT), Thanjavur
2017-18	ICAR-Indian Institute of Horticulture Research, Karnataka
	MMS University, USA
	Tamilnadu Pollution Control Board, Chennai

Webinar and other programmes participated

1. Madurai Jesuit Higher Education commission, Lectures meet, Chennai, Organised by MAJHC, 24 and 25th June, 2000.

2. National Conference on Medicinal plants, their utilization, cultivation and marketing, Organised by Department of Botany, Government College, Salem, 27 and 27, June, 2002.
3. International Conference on “Biomaterials and Tissue Engineering” –Structural Elucidation of peloton lysis using epifluorescence dyes- MINT and USM, Kuala Lumpur, 24-26th May, 2004.
4. National Seminar on Recent Trends in Applied Chemistry, organised by Department of Chemistry, by St. Joseph’s College, Tiruchirappalli, 10 and 11th January 2005.
5. National Seminar on Advances in Biology, Organized by Department of Botany, St. Joseph’s College, Tiruchirappalli, 19 and 20th January, 2005.
6. NAAC sponsored National seminar on Digitalised information exchange for quality sustenance and enhancement among accredited institutions. organised by St. Joseph’s College, Tiruchirappalli, 3-4th March 2005.
7. Interactive meeting on Biopesticides in Horticultural crops, organized by Indian Institute of Horticultural Research, Bengaluru, 14-15, February, 2005.
8. ‘E-learning and e-learning technologies’ Eletech India. C-DAC Hyderabad collaborate with Department of Information Technology, Ministry of Communications and information Technology, GOI, 8-8th August, Academic Staff College, JNT University, Hyderabad, 2005.
9. DBT- GOI sponsored Interactive meeting on “ Bio pesticides in Horticultural Crops, Institution of Agricultural Technologies”, Bengaluru, 14 and 15th February 2005.
10. National Seminar on “Recent trends in Applied Chemistry”, organised by Department of Chemistry, St. Joseph’s College (Autonomous), Tiruchirappalli, 10 and 11th January, 2005.
11. Regional Conference on Fern Diversity of India. Organized by Department of Botany, St. Joseph’s College, Tiruchirappalli, 24th February, 2007.
12. UGC sponsored National Conference on Higher education and National Development: The challenge of expansion, quality and inclusion, organised by St. Joseph’s College, Tiruchirappalli, 30-31st January 2009.
13. UGC sponsored National Conference on The role of ICT in Higher Education: Quality, Accessibility and Security, organised by St. Joseph’s College, Tiruchirappalli 29-30th January, 2010.
14. International seminar on World bioheritage concerns over climate change with a special reference to ethnic vegetables. Organised by the Department of Botany, Sree Narayana College, Thiruvananthapuram, Kerala. September 7-8, 2012.

15. National seminar on Right to sustainable environment –subaltern perspective, Department of History, organised by St. Joseph's College, Tiruchirappalli, 10-11th January, 2012.
16. UGC sponsored National level conference on Recent trends in Exploration, achievement and developments in Biological Sciences, organised by Chikkaiah Naicker College, Erode, 9-10th March, 2012.
17. International conference on sustainable utilization, management and conservation of bioresources, Department of Botany, St. Joseph's College, Tiruchirappalli, 10-11th January, 2013.
18. UGC sponsored National Conference on Advances in Biology, Organised by Department of Botany, St. Joseph's College, Tiruchirappalli, 6 and 7th January, 2014.
19. Fr. Lazar Endowment Lecture on Scholarly open access e-journals. organized by St. Joseph's College, Tiruchirappalli, 08th February, 2014.
20. National Symposium on Recent advances in medicinal and aromatic plants, organized by Department of Botany, St. Joseph's College, Tiruchirappalli. 05th February, 2014.
21. INSA sponsored Lecture workshop on Vistas in Biosciences, Department of Botany, St. Joseph's College, Tiruchirappalli, 30-31st January, 2015.
22. National level one day lecture workshop on IPR as a strategic asset for technology transfer, KSR College of Technology, Tiruchengode, 15-02-2015.
23. UGC sponsored National Symposium on Recent advances in medicinal and aromatic plants, organized by Department of Botany, St. Joseph's College, Tiruchirappalli. 05th February, 2015.
24. National level seminar on Recent trends and Future advances in Life Sciences, organized by Department of Life Sciences, Central University of Tamilnadu, Thiruvarur, 26th February, 2015.
25. Higher Education Leadership Meet-2018, Venus International, Chennai, 06-01-2018.
26. Adoption, Promotion & Production of MOOCs SWAYAM Platform, South Eastern Regional Office, University Grants Commission, Hyderabad, 31-08-2018.
27. Draft National Education Policy 2019, St. Joseph's College (Autonomous), Tiruchirappalli, 25-07-2019.
28. 175th Science Exhibition, Department of Botany, St. Joseph's College, Tiruchirappalli, 21-11-2019.
29. 42nd Annual Conference of The Society of Ethnobiology, University of British Columbia-Vancouver, Canada, 10-05-2019.
30. Oral Cancer, Department of Biotechnology, St. Joseph's College, Tiruchirappalli, 07-01-2020.

31. 2nd National Conference on Current Trends in Biological Sciences, 2nd National Conference on Current Trends in Biological Sciences, St. Xavier`s College (Autonomous), Palayamkottai, 06-02-2020 and 07-02-2020.
32. Research Aptitude in Historical Writings, B.E.T.Sadathunnisa Degree College, Bangalore, 30-07-2020
33. Applied Microbiology, Sacred Heart College (Autonomous), Tirupattur, 24-07-2020.
34. Webinar on Motivation for Perpetual Learning, KLE SOciety `s Degree College, Bengaluru, 20-07-2020, 25-07-2020.
35. Webinar on Issues and challenges in filing of patents, KSR Institute of Technology and Sciences, Guntur, AP, 25-07-2020.
36. Webinar on Contemporary Market Trends: Employment opportunities and Employability skills, AMC Engineering College, Bengaluru, 25-07-2020.
37. Weinar on Awarness of IPR,copyright act and Plagiarism prevention, Dr.Babasaheb AMbedkar Marathwada University, Aurangabad, 25-07-2020.
38. Webinar on Innovations in Indian financial markets, Palamuru University, Mahabubnagar, Telangana, 24-07-2020.
39. Recent Trends in Biological Sciences, St.Andrew`s College and St.Joseph`s College, Gorakhpur and Tiruchirappalli, 03-06-2004, 04-06-2020.
40. Webinar on Fish Parasites are on the rise, Government Arts College, Melur, 04-06-2020.
41. Webinar on Finding your language, gaining a voice: A journey through select life writings, Saraswahi Narayanan College, Madurai, 25-07-2020.
42. Webinar On Trends In Plant Biology, The American College, Madurai, 01-06-2020.
43. Capacity Building In IPR & Innovation, Drug Discovery And Traditional Medicine, St. Andrews College, Uttar Pradesh, 28-07-2020, 30-07-2020.
44. Cyber Attacks & Defiance Mechanism in Data Security, Sreenivasa Institute of Technology And Management Studies, Andhra Pradesh, 26-07-2020.
45. National Webinar on Human Origin, Health and Diseases, St. Joseph`s College, Tiruchirappalli, 14-07-2020.
46. The Journey Within - Know Yourself & Know the World, St. Joseph`s College, Tiruchirappalli, 19-06-2020.
47. Webinar on microbes, The drivers of Human life, St. Joseph`s College, Tiruchirappalli, 06-06-2020.
48. Webinar on genetic factors- The root causes of Drug Response variation, St. Joseph`s College, Tiruchirappalli, 13-06-2020.

49. Webinar on Impact of climate change on Bio-Diversity and world food security, St. Joseph`s College, Tiruchirappalli, 15-07-2020.
50. Webinar on Unlocking approaches in Biological Research, St. Joseph`s College, Tiruchirappalli, 24-07-2020, 26-07-2020.
51. Webinar on Natural products for Human Health Management, St. Joseph`s College, Tiruchirappalli, 22-07-2020.
52. Webinar on Bioscience: A glance in Sharing and Learning, St. Joseph`s College, Tiruchirappalli, 24-06-2020.
53. Webinar on Strategies to control Covid- 19, St. Joseph`s College, Tiruchirappalli, 30-05-2020.

Doctoral Committee Member

1. DC Member/ Mr.G.Manoharan, Department of Marine Biotechnology, Bharathidasan University, Tiruchirappalli./2011
2. DC Member/ Ms.T.M.Jothimani, Department of Botany, Jamal Mohammed College (Autonomous), Tiruchirappalli./2011
3. DC Member/ Mr.Siva, Department of Plant Sciences, Bharathidasan University, Tiruchirappalli /2011.
4. DC Member/ Ms.T.Kavitha, Department of Botany, Government College, Ariyalur / 2011.
5. DC Member /A.N.Sundar, Department of Botany, Rajah Serfoji Government College, Thanjavur/ 2013.
6. DC Member/ U.Abirami, Department of Botany, National College, Tiruchirappalli /2013.
7. DC Member /M.Keerthiga, Department of Botany, National College, Tiruchirappalli/2014.
8. DC Member/ R.Annadurai, Department of Botany, Government College, Ariyalur/2014.
9. DC Member/ S.Deborah, Department of Botany, National College, Tiruchirappalli/2015.

10. DC member /V.Prabu,Department of Botany, National College, Tiruchirappalli / 2015.
11. DC member /RajanikanthGarapati, Department of Biotechnology, JJ College of Arts and Science, Pudukottai/ 2015.
12. DC member / B.Sivaramakrishnan, Department of Botany, National College, Tiruchirappalli / 2015.
13. DC member / G.Thilagavathi, Department of Botany, Government College, Ariyalur / 2016.
14. DC member / K.Bharathi, Department of Botany, Periyar EVR College, Tiruchirappalli / 2018.

AICTE Training and Learning (ATAL) Attended

1. Attended online Elementary FDP on Application of Computers in Biology. Organized by Galgotias University, 07-11th June 2021.
2. Attended online Elementary FDP on Recent trends in Drug discovery, Organized by the Department of Pharmaceutical Sciences, Kerala,05-09th July2021.
3. Attended online Elementary FDP on Secrets of human bioenergy fields and subconscious mind. Organized by Sona College of Engineering, Salem.12-17th July 2021.

Organizing Committee /Advisory Member

1. National Symposium on Cutting edge approaches for sustainable plant disease management and ensuring farmers profit, Organized by Indian Phytopathological Society and National Research Centre for Banana, Tiruchirappalli. 21-23 December 2018.
2. National Seminar on Recent Trends in Nanotechnology and its applications. Organized byImayam Arts and Science College, Kannaur, 23rd January 2019.
3. International Conference of Cancer inferno and its prevention strategies. Organized by Department of Biochemistry, Periyar EVR College (Autonomous), Tiruchirappalli, 22nd February 2019.
4. National Conference on Data Revolution in Computational Biology and Drug Development, Organized by St. Joseph's College (Autonomous), Bengaluru,17 and 18th December 2019.

International Contribution

Providing Microscopy picture and support in designing website for the 18th International Microscopy Congress, Prague, Czech Republic, 7-12, September, 2014.

Articles/Chapter published in Books: 46