

Dr. SUBBURAMAN SENTHILKUMAR

Present Position



: **Associate Professor**
Department of BOTANY
School of Biological Sciences
St. Joseph's College (*Autonomous*),
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Chairman-Tamilnadu State

Hindustan Scouts and Guides

Recognized by Ministry of Youth Affairs & Sports
Government of India (Jan.2025-)

Patent Grant

Innovation Patent

- Filed on 24th August 2021/ **Government of Australia** Granted dated 08th December 2021

Design Patent

- 105722 issued on 28.10.2021/ **Government of India**
- 358284-001 No:111739 issued on 09.02.2022 / **Government of India**
- 6297990. Issued on 31.07.2023 / **Government of UK**
- 6299377. Issued on 05.08.2023 / **Government of UK**
- 6311060. Issued on 25.09.2023 / **Government of UK**
- 6345836. Issued on 21.02.2024 / **Government of UK**
- 432645-001. Issued on 23.12.2024 / **Government of India**

Utility Patent

- 20 2022 100 605, issued on 06.04.2022 / **Government of Germany**
- 20 2023 100 808, issued on 31.03.2023 / **Government of Germany**
- 20 2023 101 250, issued on 03.04.2023 / **Government of Germany**
- 20 2024 103 634, issued on 24.07.2024 / **Government of Germany**

Post Doctoral Fellow and International Workshop

- Department of Microbiology, **University of Warwick, UK**, (2006)
- Molecular Workshop, Department of Biology, **York University, UK**, (2000)
- **Rumbaugh –Goodwin Cancer Research Institute**, Florida, **USA**, (2014)

Government of India Recognition

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

Global competency

- **157 accessions** with GenBank / NCBI, **USA**
- **Young Scientist Bursary Awardee**- Korean Microscopy Society (2008), **S. Korea**
- **Young Scientist Bursary Awardee**- International mycological Congress, Oslo University, **Norway** (2002).
- **Young Scientist Bursary Awardee** - Royal Microscopical Society, Oxford University, (2000), **UK**

Administrative Responsibilities

- ❖ **Head**, Department of Botany, St. Joseph's College, Tiruchirappalli (2019 - 2024).
- ❖ **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 Environmental Sciences, JJ College of Arts and Science, Pudukottai (1997-11th Jan.2000).

Government Assisted

- ❖ **Coordinator**, Ambient Air Quality Monitoring Station, SJC, Tamilnadu Pollution Control Board (2018-)
- ❖ **Peer Team Member**- UGC Paramarsh Scheme, St. Joseph's College, Tiruchirappalli (2019-2021)
- ❖ **Asst. Coordinator**, DBT-STAR Scheme, St. Joseph's College, Tiruchirappalli (2016-2019)
- ❖ **Programme Officer**- NSS Unit, St. Joseph's College, Tiruchirappalli (2004-2007)

Madurai Jesuit Province Level

- ❖ **Member**, Ecology Commission of Madurai Jesuit Province, (2021-23)
- ❖ **Member**, Governing Body, St. Joseph's College, Tiruchirappalli (2017-2019 and 2022-)

College Level

- ❖ **Director**, Nature Club, St. Joseph's College, Tiruchirappalli (2007-2010)
- ❖ **Member** in various criteria of NAAC – SSR preparation of the college for 4 Cycles (Cycle 1,2,3 & 4).
- ❖ **Purchase Officer**, St. Joseph's College, Tiruchirappalli (2010-2011)
- ❖ **Chief Superintendent of Examinations**, St. Joseph's College, Tiruchirappalli (2015-2016)
- ❖ **Coordinator**, IPR Cell, St. Joseph's College, Tiruchirappalli (2021-2022).

Experience (*Teaching and Research*)

Teaching: 28 years, Research: 34 years

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).

Abroad visit for Paper presentation

- ❖ Department of Botany, [University of Peradeniya](#), **Srilanka**, (1997, 2000;2004).
- ❖ Department of Biotechnology, [University of Peradeniya](#), **Srilanka** (2005).
- ❖ [York University](#), **UK**, (2000)
- ❖ [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, **Sri Lanka**, (2017;2018).
- ❖ University of North Carolina, **USA**, (2014).
- ❖ University of British Colombia, Vancouver, **Canada**, (2018).
- ❖ University of Nottingham, Kuala Lumpur, **Malaysia** (2022).

Department Performance Award-Headship

Seven Times Best Performance Department Award among Science departments of St. Joseph's College, Award- Received (2014, 2015, 2016, 2019 and 2020,2021,2022), Departments of Biotechnology and Botany.

Research Guidance : Ph.D - **09** Awarded, /M.Phil:**51**

Education

Degree	University/Institution	Year
Ph.D.	Dept. of Plant Science Bharathidasan University	1996
M.Phil.	St. Joseph's College (<i>Autonomous</i>) Affiliated to Bharathidasan University	1992

Professional Training Received

Year	Nature of Training	Duration	Organization
2010	Term Training Course for College Teachers on Molecular Methods in Bioresources Conservation using in vivo and in vitro techniques.	14 days	DBT-Sponsored The Rapinat Herbarium, St. Joseph's College, Tiruchirappalli
2008	Special Summer School in Biosciences	22 days	UGC Academic Staff College Bharathidasan University,
2008	Term Training Course for College Teachers on Molecular Methods in Bioresources Conservation for Sustainable Utilisations.	14 days	DBT-Sponsored The Rapinat Herbarium, St. Joseph's College, Tiruchirappalli
2007	Term Training Course for College Teachers on Conservation of Bioresources using Biotechnological Tools.	14 days	DBT-Sponsored The Rapinat Herbarium, St. Joseph's College, Tiruchirappalli
2005	Special Summer School in Biosciences	22 days	UGC Academic Staff College Bharathidasan University,

2005	Special Summer School in Biosciences	22 days	UGC Academic Staff College Bharathidasan University,
2004	Refresher Course for NSS	05 days	Madras School of Social Work , Chennai.
2003	Orientation Course for NSS	10 days	Madras School of Social Work , Chennai.
2002	Orientation Course	28 days	UGC Academic Staff College Bharathidasan University,
2000	Molecular Morphology Workshop	03 days	Biology Department, York University
1999	Bioprocess Engineering on Genetically modified Organisms	15days	DBT-Sponsored Biotechnology Centre, IIT, Kharagpur
1997	Cloning and Expression of Animal Genes	19days	DBT-Sponsored Jiwaji University , Gwalior
1990	Indoor Ornamental Horticulture, Landscape Gardening and Fruit Preservation	02 days	UGC-Jamal Mohamed College , Tiruchirappalli

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	20th April 2007	Bharathidasan
Dr. T. Francis Xavier (13832/Ph.D/Bot/Jan2002)	Aug.2006	26th April 2007	“
Dr. A. Egbert Selwin Rose (020052/Ph.D/Bot/Jan2004)	May 2008	15th April 2009	“
Mrs. Dr.R. Sarala (52824/Ph.D/Bot/July2004)	June2009	1st Dec. 2009	“
Dr. J. Kashmir (17161/Ph.D.1/Mol.Sys./Oct.2008)	Dec.2011	20th April 2012	“
Mrs. Dr. R. Bhamadevi (31837/Ph.D1/Mol.Sys./Jan2009)	Oct.2012	5th Oct'2013	“
Mrs. Dr. A. Freeda Rose 38736/Ph.D/K10/Botany/PT/Jan.2014	2019	Dec 2019	“
Dr.S.Arul (05874/Ph.D/K1/Botany/FT/2015)	April2015	09th December 2020	“
Mrs. Dr. A. Asha Monica (004860/Ph.DK10/Pl.Biotechnology/FT/Jan2 019)	Nov.2021	21stFeb 2022	“

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	B. 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

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

Conference/workshops organized

1. One Day **Workshop on Fluorescence Technology**, Department of Botany, St. Joseph's College, Tiruchirappalli, 16th February, 2004.
2. **State level workshop on Techniques in Tissue culture and Histochemistry**, -Department of Botany, St. Joseph's College, Tiruchirappalli, 16 and 17th September 2004.
3. **One day workshop on Grafting Techniques**, Organized by Department of Botany, St. Joseph's College, Tiruchirappalli. 19th December, 2013.
4. **One Day workshop on Landscape Designing**, Organized by Department of Botany, St. Joseph's College, Tiruchirappalli, 10th January, 2014.
5. **One Day International Seminar on International scientist meet** 15th December 2015.
6. **One Day Workshop on Next generation sequencing** 10th September 2015.
7. **DBT - STAR Scheme Sponsored Workshop on Molecular Taxonomy & Bioinformatics tools**, 22-29th February 2016.
8. **One Day workshop in On-Farm Food processing** 11th January 2016.
9. **One Day Workshop on Electron Microscopy**, Organized by Department of Biotechnology, St. Joseph's College, Tiruchirappalli, 25th July 2016.

10. **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. **British Council and MHRD Sponsored Workshop** on **Research based pedagogical tools for teachers of undergraduate Colleges**, Organised by **Indian Institute of Science Education and Research (IISER), Pune**, sponsored by, 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).

RESEARCH SCHEMES - COMPLETED

No	Title	Agency	Period
1.	Principal Investigator: Mass seedling production of endangered and endemic orchid species of Shervaroy's using Mycorrhizal Association	Dept. of Science and Technology, Gol	2001-2003
2.	Principal Investigator: Popularisation of orchid floriculture among rural masses by the adoption of mycorrhizal fungal technology	Dept. of Science and Technology, Gol	2003-05
3.	Principal Investigator: Mycorrhizal Diversity of Kolli hills, a part of Eastern Ghat's	University of Grants Commission	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.	Principal Investigator: Ethnomedicinal studies on the Paliyan Tribes and local traditional health practitioners of the Palni hills of Western Ghat's in Tamilnadu	Dept. of Science and Technology, Gol	2008-2011
7.	Director: In glass Technology in Bioresource Conservation	University of Grants Commission	2015
8.	Director: <i>In vitro</i> and <i>In vivo</i> Methods in Bioresource Conservation	Department of Biotechnology	2015
9.	Principal Investigator: Diversity and Mycorrhizal Specificity of Vanda and Cymbidium genus (Orchidaceae) of Western and Eastern Ghats	University of Grants Commission	2015-2018

Book Editor / Author

1. **Diversity of Plants-A Molecular Approach**, 2010 The Rapinat Herbarium, ISBN: 978-81-908503-0-8.
2. **Fundamentals of Biotechnology**, 2024. Prashas Publication, Maharashtra. ISBN: 987-81-974164-7-7.
3. **Basics in Drug Discovery-A molecular Docking Approach**, 2025 Genic Books Publishers, Agra ISBN- 9788198523228.

Workshop /Training Programme (N/IN) Resource person

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, TNAU, Coimbatore

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 invitro Morphogenesis. October 1996, 11- 12, **Sardar Patel University**, Gujarat, India.
2. **S. Senthilkumar** and K.V. Krishnamurthy 1996. An attempt to produce orchid mycorrhizal inoculum in a large scale. X Southern Regional Conference on Microbial Inoculants. December10-11, 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.
 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 crispa*. XI Southern Regional Conference on Microbial Inoculants. February 19-20, **Vignan School of Postgraduates Studies**, Guntur, AP.
 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, Andhra Pradesh.
 10. **S. Senthilkumar** and K.V. Krishnamurthy 1999. Mycorrhizal association of the ground orchid *Cymbidium aloifolium*. National Conference on Mycorrhiza. March 5-7. 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 triplicate* (Willmet) Ames. 6th National 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.

6thNationalSeminar 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.June26-27.
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. Senthilkumar**,2004. 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**. 2005. 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.
28. **S.R. Senthilkumar**. 2009. National Conference on 'Higher Education and National Development' - Organised by **St. Joseph's College (Autonomous)**, Tiruchirappalli - 30-31 January.

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 *Acambe 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 Sri Lanka. International Conference on Frontiers in Fungal Biotechnology and Plant Pathogens relations. January 16-18. Organised by Department of Botany, Osmania University, Hyderabad.
5. **S. Senthilkumar**, 2000. A Cytochemical study of some Srilankan orchids with reference to mycorrhizal association, combined Millennium, Meeting Rhodes University, S. Africa, 23-28 January, p539.
6. **S. Senthilkumar**, 2000. Histochemistry of Pelotonic and non pelotonic hyphae of some orchids of India and Sri Lanka. X1th International congress of Histochemistry and Cytochemistry September 3-8th Organised by Royal Microscopical Society, University of Oxford, UK
7. **S. Senthilkumar**, 2000. A cytochemical study of some Srilankan orchids with reference to mycorrhizal association. Combined Millennium Meeting Rhodes University, S. Africa. 23-28 Jan.p539.
8. **S. Senthilkumar**, 2002. Mycorrhizal and Ethanopharmacological value of some

threatened orchid species of Shevaroy's, S. India. VII International Mycological Congress, Norway.

9. **S. Senthilkumar** and 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, South India.
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
11. 'Sustainable Development and Management of Natural Resources'. 15-17 March Organised by Holy Cross College, Tiruchirappalli.
12. **S. Senthilkumar**, 2004. Structural elucidation of peloton lysis using Epi- Fluorescence dyes. International Conference on Biomaterials and Tissue Engineering, Kuala Lumpur, Malaysia 24- 26th May.
13. **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.

Significant Publications

1993-1994

1. **S. Senthilkumar** and 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. Senthilkumar** and 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

1. **S. Senthilkumar** and K.V. Krishnamurthy 1997. A histochemical study on the cortical cells of *Spathoglottis plicata* with special reference to mycorrhizal association. Plant

Morphogenesis 7:77-78

2. S. Senthilkumar and 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.
3. S. Senthilkumar and K.V. Krishnamurthy 1997. Effect of root knot nematode and mycorrhiza on the growth of ground orchid, *Spathoglottis plicata* Blume. **Mycorrhiza News** 8:13-14. ISSN0970- 695X.

1997-1998

1. S. Senthilkumar and K.V. Krishnamurthy 1998: The role of root hairs in the mycorrhizal association in the ground orchid, *Spathoglottis plicata* Blume. **Mycorrhiza News** 10:15-17. ISSN0970-695X
2. K. V Krishnamurthy, R. Nelson and S. Senthilkumar, 1998. VAM association of Sandal – a hemi root parasite. **Mycorrhiza News** 9(4):11-12. ISSN 0970- 695X
3. S. Senthilkumar and K.V. Krishnamurthy 1998. A histochemical study on the pelotons in the mycorrhizae of *Spathoglottis plicata* Blume. **Biologia Plantarum** 41:111-119. ISSN:0006-3134.
4. S. Senthilkumar and G.V. Vengateswari and K.V. Krishnamurthy 1998. Studies on the mycorrhizal association of the ornamental orchid, *Papilionanthe 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: Peroxidase and Acid phosphatase activity in the ground orchid, *Spathoglottis plicata* with special reference to mycorrhiza. **Mycorrhiza News** 10:11-13. ISSN 0970-695X
3. 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
4. S. Senthilkumar, and K.V. Krishnamurthy 1999. Nuclear changes in host cells colonised by orchid mycorrhizae. **Beitrag 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 et al. 2000. Biochemical analysis of mycorrhizal roots of *Aerides maculosum*.

Phytomorphology. 50: 273-279. ISSN0031-9449.

3. 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
4. **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.
5. S. John Britto and **S. Senthilkumar**, 2000. xj;Japh; tho; Nth; G+Q;irfs; - NtUf;Fk; G+Q;irf;Fk; ;ilNacs;s njhlh;G. El;gk; (Canada) 40-44.
6. **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.
7. **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 *Spathoglottis plicata* and Dendrobium species. **Phyta** 5:1-7.
2. M. N. Abubackar, P. Anbu, A. Hilda and **S. Senthilkumar**, 2001. Cellulose biodegradative 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.** 3(4): 321-325. ISSN0972-3005
4. **S. Senthilkumar** and 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. Senthilkumar**, 2001. 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. Senthilkumar**, 2001. Studies of sculpture patterns in some species of *Crotalaria* family Fabaceae. **Phyta** 5:25-29.
7. **S. Senthilkumar**, 2001. 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 oryzae sativae*.

Mycorrhiza News13: 19-21. ISSN0970-695X

2. **S. Senthilkumar**, 2002. Mycorrhizal and Ethanopharmacological value of some threatened orchid species of Shevaroy's, S. India. VII International Mycological Congress, Norway.
3. **S. Senthilkumar** and 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 crispera*. **Asian Jr. of Microbial. Biotech. & Environment** 4: 465-469. ISSN0972-3005
5. S. John Britto and **S. Senthilkumar**, 2002. 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 *Alangium salvifolium* 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. ISSN0971-5371
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. ISSN15967026.

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, .
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. ISSN0256-9493
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 inophyllum* 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. 5.K.V. Krishnamurthy and S. Senthilkumar, 2005. Orchid Mycorrhiza In: **Mycorrhizas: Role and Applications** (ed) V.S.Mehrotra, Alliled Publishers, New Delhi. pp 66-90.
6. Praphu, S., Senthilkumar, S., John Britto, 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

1. 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.

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 S.R, 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. ISSN0972-3005.
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. ISSN2151-7517

4. Kala, S. and Senthilkumar, S.R. 2010. Antimicrobial activity of *Acanthephippium bicolor*, L. **Malaysian Journal of Microbiology**, 6: 140-148. ISSN2231-7538.

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. ISSN0975-7538.
2. L. Joelri Michael Raj, John Britto, S, Prabu, S and Senthilkumar, S.R. 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, S.R 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, S.R. 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, S.R, 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. 1.R. Sarala and Senthilkumar, S.R. 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. ISSN No.: 2250-3137.

2016-2017

1. Senthilkumar S.R, 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 S.R, 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 S.R, 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 S.R, 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 S.R, Francis Xavier, Gomathi, Jino Aancius 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 Durairaj Sekar. 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. ani 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>.

2019-2021

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].
4. T. Francis Xavier, **Senthilkumar, S.R.** and R. Sabitha. Direct organogenesis from nodal explant of *Solanum elaeagnifolium* Cav. S. Balavivikananthan. **Bulletin of Environment, Pharmacology and Life Sciences**,9;121-126,0.876.
5. S. Balavivikananthan, T. Francis Xavier and R. Sabitha. Antibacterial activity of *Solanum elaeagnifolium* Cav. stem and leaf extract against human pathogenic bacteria. **Research Journal of Pharmacy and Technology**,14:1-7.

2024

1. Asha Monica Alex, **Senthilkumar Subburaman**, Shokha Chauchan, Vishal Ahuja, Gholamrreza and Maryam Abbasi Tarighat. Green Synthesis of silver nanoparticle prepared with *Ocimum* species and assessment of anticancer potential. **Scientific Reports**.14:11707. <https://doi.org/10.1038/s41598-024-61946>

NATIONAL CENTRE FOR BIOTECHNOLOGY INFORMATION/USA

2023

1. ***Microcoleus sp.*** Aj04 16S ribosomal RNA gene, partial sequence, **OR242493.1**
2. ***Microcoleus autumnalis*** Aj02 16S ribosomal RNA gene, partial sequence, **OR242492.1**.
3. ***Chlorella sorokiniana*** isolate Aj05 small subunit ribosomal RNA gene, partial sequence, **OR243899.1**
4. ***Micractinium sp*** isolate Aj08 small subunit ribosomal RNA gene, partial sequence, **OR243900.1**
5. ***Mirocoleus autumnalis*** Aj07 16S ribosomal RNA gene, partial sequence, **OR250419.1**

2019

1. ***Ocimum americanum*** ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl)gene, partial cds; chloroplast. **GenBank: MN660046.1**
2. ***Ocimum tenuiflorum*** ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; chloroplast. **GenBank: MN660047.1**
3. ***Ocimum gratissimum*** ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl)gene, partial cds; chloroplast. **GenBank: MN660048.1**
4. ***Ocimum basilicum*** ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (Rbcl) gene,partial cds; chloroplast. **GenBank: MN186585.1**
5. ***Ocimum tenuiflorum*** trnH-psbA intergenic spacer region, partial sequence; chloroplast. **GenBank: MN239512.1**
6. ***Ocimum basilicum*** trnH-psbA intergenic spacer region, partial sequence; chloroplast. **GenBank: MN816238**
7. ***Ocimum americanum*** trnH-psbA intergenic spacer region, partial sequence; chloroplast. **GenBank: MN755613**

8. *Ocimum tenuiflorum* trnH-psbA intergenic spacer region, partial sequence; chloroplast. **GenBank: MN239512**
9. *Ocimum gratissimum* trnH-psbA intergenic spacer region, partial sequence; chloroplast. **GenBank: MN816239**
10. *Ocimum basilicum* TrnL-TrnF intergenic spacer region, partial sequence; chloroplast. **GenBank: MN816237**
11. *Ocimum americanum* TrnL-TrnF intergenic spacer region, partial sequence; chloroplast. **GenBank: MN816234**
12. *Ocimum tenuiflorum* TrnL-TrnF intergenic spacer region, partial sequence. **GenBank: MN816235**
13. *Ocimum gratissimum* TrnL-TrnF intergenic spacer region, partial sequence; chloroplast. **GenBank: MN816236**
14. *Tulasnella* sp. isolate 1.1 large subunit ribosomal RNA gene, partial sequence **GenBank: MH468786**
15. *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: MH47940**
16. *Tulasnella* sp. isolate 1.5 large subunit ribosomal RNA gene, partial sequence. **GenBank: MH479403**
17. *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**
18. *Tulasnella* sp. isolate 1.7 5.8S ribosomal RNA gene, partial sequence; internal transcribed spacer2, complete sequence; and large subunit ribosomal RNA gene, partial sequence. **GenBank: MH479405**

2018

1. *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**
2. *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**
3. *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**
4. *Vanda tessellata* isolate *Epulorhiza* sp. 1.1 internal transcribed spacer 1, partial sequence. **GenBank: MK322735.1**
5. *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**
6. *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**

7. *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**
8. *Ceratobasidium cereale* isolate Kodaikanal internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence **GenBank: MG002431.1**
9. *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: MG002433.1**
10. *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: MG002434.1**
11. *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**
12. *Vanda testacea* ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; chloroplast **GenBank: MF446878.1**
13. *Vanda tessellata* ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; chloroplast **GenBank: MF446879.1**
14. *Vanda tessellata* ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; chloroplast **GenBank: MF446880.1**
15. *Cymbidium aloifolium* ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; chloroplast **GenBank: MF446882.1**
16. *Vanda tessellata* ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcl) gene, partial cds; chloroplast **GenBank: MF446884.1**
17. *Vanda spathulata* pbs A-trnH intergenic spacer, partial sequence; chloroplast **GenBank: MF446881.1**
18. **UNVERIFIED: *Cymbidium bicolor*** PsbA-like gene and pbsA-trnH intergenic spacer, partial sequence; chloroplast **GenBank: MF446883.1**

2017

1. **Uncultured *Bacterium*** clone MN04--16S ribosomal RNA gene, partial sequence, **KX059328.1**
2. **Uncultured *Bacterium*** clone MN02--16S ribosomal RNA gene, partial sequence, **KX059329.1**
3. **Uncultured *Bacterium*** clone RAZ02--16S ribosomal RNA gene, partial sequence, **KX059330.1**
4. **Uncultured *Bacillus sp.*** clone RAZ01 -16S ribosomal RNA gene, partial sequence, **KX059331.1**
5. **Uncultured *Bacillus sp.*** clone RAZ03-16S ribosomal RNA gene, partial sequence, **KX059332.1**
6. **Uncultured *Bacterium*** clone MAV04--16S ribosomal RNA gene, partial sequence, **KX059333.1**
7. **Uncultured *Pseudomonas sp.*** clone MAV03-16S ribosomal RNA gene, partial sequence, **KX059334.1**

8. **Uncultured *Acinetobacter* sp** clone MAV01-16S ribosomal RNA gene, partial sequence, **KX059335.1**
9. **Uncultured *Pseudomonas* sp.** clone MAV02--16S ribosomal RNA gene, partial sequence, **KX059336.1**
10. **Uncultured *Bacterium*** clone MA05-16S ribosomal RNA gene, partial sequence, **KX059337.1**
11. **uncultured *Brevibacterium* sp** clone MJC01 -16S ribosomal RNA gene, partial sequence, **MF289386.1**
12. **Uncultured *Bacillus* sp** clone MJC02-16S ribosomal RNA gene, partial sequence, **MF289387.1**
13. **Uncultured *Bacillus* sp** clone MJC03-16S ribosomal RNA gene, partial sequence, **MF289388.1**
14. **Uncultured *Brevibacterium* sp** clone MJC04-16S ribosomal RNA gene, partial sequence, **MF289389.1**
15. **Uncultured *bacterium*** clone MJC05-16S ribosomal RNA gene, partial sequence, **MF289390.1**
16. **Uncultured *Bacillus* sp** clone MJC06-16S ribosomal RNA gene, partial sequence, **MF289391.1**
17. **Uncultured *Bacillus* sp** clone MJC07-16S ribosomal RNA gene, partial sequence, **MF289392.1**
18. **Uncultured *Bacillus* sp.** clone MJC08 16S ribosomal RNA gene, partial sequence **GenBank: MF289393.**
19. **Uncultured *Bacillus* sp** clone MJC09-16S ribosomal RNA gene, partial sequence, **MF289394.1**
20. **Uncultured *Bacillus* sp** clone MJC10-16S ribosomal RNA gene, partial sequence, **MF289395.1**
21. **Uncultured *Bacillus* sp** clone MJC11-16S ribosomal RNA gene, partial sequence, **MF289396.**
22. **Uncultured *bacterium*** clone MJC12-16S ribosomal RNA gene, partial sequence, **MF289397.1**
23. **Uncultured *Brevibacterium* sp** clone MJC13 -16S ribosomal RNA gene, partial sequence, **MF289398.1**
24. **Uncultured *Bacillus* sp** clone MJC14-16S ribosomal RNA gene, partial sequence, **MF289399.1**
25. **Uncultured *Bacillus* sp** clone MJC15-16S ribosomal RNA gene, partial sequence, **MF289400.**
26. **Uncultured *Bacillus* sp** clone MJC16-16S ribosomal RNA gene, partial sequence, **MF289401.**
27. **Uncultured *Bacillus* sp.** clone MJC17 16S ribosomal RNA gene, partial sequence **GenBank: MF289402**
28. **Uncultured *Bacillus* sp.** clone MJC18 16S ribosomal RNA gene, partial sequence **GenBank: MF289403**
29. **Uncultured *Streptomyces* sp** clone MJC19-16S ribosomal RNA gene, partial sequence, **MF289404.**
30. **Uncultured *Streptomyces* sp.** clone MJC20 16S ribosomal RNA gene, partial sequence **GenBank: MF289405**
31. **Uncultured *Streptomyces* sp** clone MJC21-16S ribosomal RNA gene, partial sequence, **MF289406.1**
32. **Uncultured *Streptomyces* sp** clone MJC22-16S ribosomal RNA gene, partial sequence, **MF289407.1**

2013

1. ***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**

2. *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**
3. *Fusarium sacchari* strain SJCBT-F02 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence **Accession KU837241**
4. *Bipolaris oryzae* strain SJCBT-F04 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence **Accession KU837242**
5. *Curvularia oryzae* strain SJCBT-F05 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence **Accession KU837243**
6. *Rhizopus oryzae* strain SJCBT-F06 internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence. **Accession KU837244**

2013

1. **Unverified: *Alstonia venenata*** voucher RHT56089 psbK-psbl intergenic spacer, partial sequence: chloroplast; Version KC244725.1 GI:448588346- 237pb. **GenBank KC244725**
2. **Unverified: *Alstonia venenata*** voucher RHT56091 psbK-psbl intergenic spacer, partial sequence: chloroplast; Version KC244726.1 GI:448588347- 237pb. **GenBank KC244726**
3. **Unverified: *Alstonia venenata*** voucher RHT56112 psbK-psbl intergenic spacer, partial sequence: chloroplast; Version KC244727.1 GI:448588348- 236pb. **GenBank KC244727**
4. **Unverified: *Alstonia venenata*** voucher RHT56113 psbK-psbl intergenic spacer, partial sequence: chloroplast; Version KC244728.1 GI:448588349- 237pb. **GenBank KC244728**
5. **Unverified: *Alstonia venenata*** voucher RHT56123 psbK-psbl intergenic spacer partial sequence: chloroplast Version KC244729.1 GI:448588350- 237pb. **GenBank KC244729**;
6. **Unverified: *Alstonia venenata*** voucher RHT56177 psbK-psbl intergenic spacer, partial sequence: chloroplast; Version KC244730.1 GI:448588351- 237pb. **GenBank KC244730**
7. **Unverified: *Alstonia venenata*** voucher RHT64919 psbK-psbl intergenic spacer, partial sequence: chloroplast; Version KC244731.1 GI:448588352- 236pb. **GenBank KC244731**
8. *Alstonia venenata* voucher RHT56089 trnL-trnF intergenic spacer, partial sequence: chloroplast Version KC244732.1 GI:448588401-408pb. **GenBank KC244732**;
9. *Alstonia venenata* voucher RHT56091 trnL-trnF intergenic spacer, partial sequence: chloroplast Version KC244733.1 GI:448588402-389pb. **GenBank KC244733**;
10. *Alstonia venenata* voucher RHT56112 trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244734.1 GI:448588403-389pb. **GenBank KC244734**
11. *Alstonia venenata* voucher RHT56113 trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244735.1 GI:448588404-389pb. **GenBank KC244735**
12. *Alstonia venenata* voucher RHT56123 trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244736.1 GI:448588405-389pb. **GenBank KC244736**
13. *Alstonia venenata* voucher RHT56177 trnL-trnF intergenic spacer, partial sequence:

chloroplast; Version KC244737.1 GI:448588406-408pb. **GenBank KC244737**

14. *Alstonia venenata* voucher RHT64919 trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244738.1 GI:448588407-398pb **GenBank KC244738**
15. *Celastrus paniculatus* voucher RHT56102A psbK-psbI intergenic spacer, partial sequence: chloroplast; Version KC244739.1 GI:448588432-461pb. **GenBank KC244739**
16. *Celastrus paniculatus* voucher RHT56130A psbK-psbI intergenic spacer, partial sequence: chloroplast; Version KC244740.1 GI:448588433-463pb. **GenBank KC244740**
17. *Celastrus paniculatus* voucher RHT56167 psbK-psbI intergenic spacer, partial sequence: chloroplast; Version KC244741.1 GI:448588434-462pb. **GenBank KC244741**
18. *Celastrus paniculatus* voucher RHT56167A psbK-psbI intergenic spacer, partial sequence: chloroplast; Version KC244742.1 GI:448588435-462pb. **GenBank KC244742**
19. *Celastrus paniculatus* voucher RHT56168 psbK-psbI intergenic spacer, partial sequence: chloroplast; Version KC244743.1 GI:448588436-464pb. **GenBank KC244743**
20. *Celastrus paniculatus* voucher RHT56169 psbK-psbI intergenic spacer, partial sequence: chloroplast; Version KC244744.1 GI:448588437-462pb. **GenBank KC244744**
21. *Celastrus paniculatus* voucher RHT64912 psbK-psbI intergenic spacer, partial sequence: chloroplast; Version KC244745.1 GI:448588438-462pb. **GenBank KC244745**
22. *Celastrus paniculatus* voucher RHT64913 psbK-psbI intergenic spacer, partial sequence: chloroplast; Version KC244746.1 GI:448588439-462pb. **GenBank KC244746**
23. *Celastrus paniculatus* voucher RHT56102A trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244747.1 GI:448588461-357pb. **GenBank KC244747**
24. *Celastrus paniculatus* voucher RHT56130 trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244748.1 GI:448588462-359pb. **GenBank KC244748**
25. *Celastrus paniculatus* voucher RHT56167 trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244749.1 GI:4485884623 -360pb. **GenBank KC244749**
26. *Celastrus paniculatus* voucher RHT56167A trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244750.1 GI:448588464- 353pb **GenBank KC244750**
27. *Celastrus paniculatus* voucher RHT56169 trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244752.1 GI:448588466-354pb **GenBank KC244752**
28. *Celastrus paniculatus* voucher RHT64912 trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244753.1 GI:448588467-360pb **GenBank KC244753**
29. *Celastrus paniculatus* voucher RHT64913 trnL-trnF intergenic spacer, partial sequence: chloroplast; Version KC244754.1 GI:448588468-357pb **GenBank KC244754**
30. *Elaeocarpus munroii* voucher RHT56110 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244755 GI:448588497 -250pb. **GenBank KC244755.1**
31. *Elaeocarpus* sp. voucher RHT56155 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244756 GI:448588498 -277pb. **GenBank KC244756.1**
32. *Strobilanthes* sp. RHT5616 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244757 GI:448588499 -355pb. **GenBank KC244757.1**
33. *Strobilanthes* sp. voucher RHT56163 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244758 GI:448588500 -358pb. **GenBank KC244758.1**
34. *Salacia* sp. voucher RHT56164 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244759 GI:448588501 -429pb. **GenBank KC244759.1**
35. *Morindaum bellata*. voucher RHT56175 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244760 GI:448588502 -293pb. **GenBank KC244760.1**

36. *Maytenus* sp. Voucher RHT56176 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244762 GI:448588504 -398pb. **GenBank KC244762.1**
37. *Olax* sp. voucher RHT56178 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244763 GI:448588505 -361pb. **GenBank KC244763.1**
38. *Clausena* sp. Voucher RHT56179 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244764 GI:448588506 -350pb. **GenBank KC244764.1**
39. *Lepisanthes senegalensis* .voucher RHT64916 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244765 GI:448588507 -333pb. **GenBank KC244765.1**
40. *Clausena* sp. Voucher RHT64918 trnL-trnF intergenic spacer, partial sequence: plastid; Locus JF244766 GI:448588508 -393pb. **GenBank KC244766.1**

2011

1. *Morinda citrifolia var.citrifolia* voucher RHT56006 trnL-trnF intergenic spacer, partial sequence: chloroplast.; Locus JF437607 GI:326369283 - 386pb. **GenBank JF437607.1**
2. *Buchanania axillaris* voucher RHT56087 trnL-trnF intergenic spacer, partial sequence: chloroplast.; Locus JF437608 GI:326369284-380pb. **GenBank JF437608.1**
3. *Alstonia venenata* voucher RHT56090 trnL-trnF intergenic spacer, partial sequence: chloroplast.; Locus JF437609 GI:326369285-354pb. **GenBank JF437609.1**
4. *Nothapodytes nimmoniana* voucher RHT56096 trnL-trnF intergenic spacer, partial sequence: chloroplast.; Locus JF437610 GI:326369286-386pb. **GenBank JF437610.1**
5. *Toddalia asiatica* voucher RHT56097 trnL-trnF intergenic spacer, partial sequence: chloroplast.; Locus JF437611 GI:326369287-347pb. **GenBank JF437611.1**
6. *Elaeocarpus recurvatus* voucher RHT56114 trnL-trnF intergenic spacer, partial sequence: chloroplast.; Locus JF437612 GI:326369288-354pb. **GenBank JF437612.1**
7. *Elaeocarpus recurvatus* voucher RHT56125 trnL-trnF intergenic spacer, partial sequence: chloroplast.; Locus JF437613 GI:326369289-363pb. **GenBank JF437613.1**
8. *Liparis nervosa* voucher RHT56138 trnL-trnF intergenic spacer, partial sequence: chloroplast.; Locus JF437614 GI:326369290-394pb. **GenBank JF437614.1**
9. *Celastrus paniculatus* voucher RHT56086 tRNA-Leu (trnL)gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF)gene, Partial sequence version JF297590 .1 GI:325930165-404pb **GenBank JF297590;**
10. *Celastrus paniculatus subsp.paniculatus* voucher RHT56098 tRNA-Leu (trnL)gene, partial sequence;trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, Partial sequence; version JF297591.1 GI:325930165- 404pb **GenBank JF297591**
11. *Celastrus paniculatus subsp.paniculatus* voucher RHT56099 tRNA-Leu (trnL)gene, partial sequence;trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF)gene, Partial sequence; version JF297592.1 GI:325930167- 404pb. **GenBank JF297592**
12. *Celastrus paniculatus subsp.paniculatus* voucher RHT56102 tRNA-Leu (trnL)gene, partial sequence;trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF)gene, Partial sequence; version JF297593.1 GI:325930168- 404pb **GenBank JF297593**
13. *Celastrus paniculatus subsp.paniculatus* voucher RHT56118 tRNA-Leu (trnL)gene, partial sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF)gene, Partial sequence; version JF297594.1 GI:325930169- 404pb. **GenBank JF297594**
14. *Celastrus paniculatus subsp.paniculatus* voucher RHT56130 tRNA-Leu (trnL) gene, partial

- sequence; trnL-trnF intergenic spacer, complete sequence; and tRNA-Phe (trnF) gene, Partial sequence; version JF297595.1 GI:325930170-404pb. **GenBank JF297595**
15. *Crotalaria mysorensis* voucher RHT56057 trnL-trnF intergenic spacer, partial sequence: chloroplast.; version F304304.1 GI:323650770-339pb. **GenBank JF304304**
 16. *Crotalaria walker* voucher RHT56061 trnL-trnF intergenic spacer, partial sequence: chloroplast.; version F304305.1 GI:323650771-357pb. **GenBank JF304305**
 17. *Crotalaria weightiana* voucher RHT56062 trnL-trnF intergenic spacer, partial sequence: chloroplast.; version F304306.1 GI:323650772-367pb. **GenBank JF304306**
 18. *Crotalaria lunata* voucher RHT56066 trnL-trnF intergenic spacer, partial sequence: chloroplast.; version F304307.1 GI:323650773-335pb. **GenBank JF304307**
 19. *Crotalaria pulchra* voucher RHT56068 trnL-trnF intergenic spacer, partial sequence: chloroplast.; version F304308.1 GI:323650774-353pb. **GenBank JF304308**
 20. *Crotalaria juncea* voucher RHT56071 trnL-trnF intergenic spacer, partial sequence: chloroplast.; version F304309.1 GI:323650775-332pb. **GenBank JF304309**
 21. *Crotalaria verrucosa* voucher RHT56076 trnL-trnF intergenic spacer, partial sequence: chloroplast.; version F304310.1 GI:323650776-339pb. **GenBank JF304310**
 22. *Crotalaria grahamiana* voucher RHT56077 trnL-trnF intergenic spacer, partial sequence: chloroplast.; version F304311.1 GI:323650777-337pb. **GenBank JF304311**
 23. *Crotalaria juncea* voucher RHT56079 trnL-trnF intergenic spacer, partial sequence: chloroplast.; version F304312.1 GI:323650778-332pb. **GenBank JF304312**

2010

1. *Aspergillus terreus* isolate SJCFBKe01 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**
2. *Aspergillus terreus* isolate SJCFGAe02 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**
3. *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**
4. *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**
5. *Canavalia mollis* voucher RHTCM04 trnL-trnF intergenic spacer, partial sequence; chloroplast. **GenBank: HM587710.**
6. *Canavalia rosea* voucher RHTCR06 trnL-trnF intergenic spacer, partial sequence; chloroplast. **GenBank: HM587711.**
7. *Crotalaria spectabilis* voucher RHT56064 trnL-trnF intergenic spacer, partial sequence; chloroplast. **GenBank: HM208335.**
8. *Crotalaria lunata* voucher RHT56060 trnL-trnF intergenic spacer, partial sequence; chloroplast. **GenBank: HM208336**
9. *Crotalaria medicaginea* voucher RHT56058 trnL-trnF intergenic spacer, partial sequence; chloroplast. **GenBank: HM996994**
10. *Crotalaria grahamiana* voucher RHT56059 trnL-trnF intergenic spacer, partial sequence; chloroplast. **GenBank: HM996995.**

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

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 28, 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**, organized 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. Adoption, Promotion & Production of MOOCs SWAYAM Platform, South Eastern Regional Office, University Grants Commission, Hyderabad, 31-08-2018.
26. **Draft National Education Policy 2019**, St. Joseph's College (Autonomous), Tiruchirappalli, 25-07-2019.
27. **175th Science Exhibition**, Department of Botany, St. Joseph's College, Tiruchirappalli, 21-11-2019.
28. **42nd Annual Conference of The Society of Ethnobiology**, University of British Columbia-Vancouver, Canada, 10-05-2019.

29. **02nd National Conference on Current Trends in Biological Sciences -Oral Cancer**, Department of Biotechnology, St. Joseph`s College, Tiruchirappalli, 07-01-2020.
30. **2nd National Conference on Current Trends in Biological Sciences**, St. Xavier`s College (Autonomous), Palayamkottai, 06-02-2020 and 07-02-2020.
31. **Research Aptitude in Historical Writings**, B.E.T.Sadathunnisa Degree College, Bangalore, 30-07- 2020
32. **Webinar on Motivation for Perpetual Learning**, KLE Society`s Degree College, Bengaluru, 20-07-2020, 25-07-2020.
33. **Webinar on Issues and challenges in filing of patents**, KSR Institute of Technology and Sciences, Guntur, AP, 25-07-2020.
34. **Webinar on Contemporary Market Trends: Employment opportunities and Employability skills**, AMC Engineering College, Bengaluru, 25-07-2020.
35. **Webinar on Awareness of IPR, copyright act and Plagiarism prevention**, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad, 25-07-2020.
36. **Webinar on Innovations in Indian financial markets**, Palamuru University, Mahabubnagar, Telangana, 24-07-2020.
37. **Recent Trends in Biological Sciences**, St. Andrew`s College and St. Joseph`s College, Gorakhpur and Tiruchirappalli, 03-06-2004, 04-06-2020.
38. **Webinar on Fish Parasites are on the rise**, Government Arts College, Melur, 04-06-2020.
39. **Webinar on Finding your language, gaining a voice: A journey through select life writings**, Saraswathi Narayanan College, Madurai, 25-07-2020.
40. **Webinar On Trends in Plant Biology**, The American College, Madurai, 01-06-2020.
41. **Capacity Building in IPR & Innovation, Drug Discovery and Traditional Medicine**, St. Andrews College, Uttar Pradesh, 28-07-2020, 30-07-2020.
42. **Cyber Attacks & Defiance Mechanism in Data Security**, Sreenivasa Institute of Technology and Management Studies, Andhra Pradesh, 26-07-2020.
43. **National Webinar on Human Origin, Health and Diseases**, St. Joseph`s College, Tiruchirappalli, 14-07- 2020.
44. **The Journey Within - Know Yourself & Know the World**, St. Joseph`s College, Tiruchirappalli, 19-06- 2020.
45. **Webinar on microbes, The drivers of Human life**, St. Joseph`s College, Tiruchirappalli, 06-06-2020.
46. **Webinar on genetic factors- The root causes of Drug Response variation**, St. Joseph`s College, Tiruchirappalli, 13-06-2020.
47. **Webinar on Impact of climate change on Bio-Diversity and world food security**, St. Joseph`s College, Tiruchirappalli, 15-07-2020.
48. **Webinar on Unlocking approaches in Biological Research**, St. Joseph`s College, Tiruchirappalli, 24-07- 2020, 26-07-2020.
49. **Webinar on Natural products for Human Health Management**, St. Joseph`s College, Tiruchirappalli, 22- 07-2020.
50. **Webinar on Bioscience: A glance in Sharing and Learning**, St. Joseph`s College,

Tiruchirappalli,24-06- 2020.

51. **Webinar on Strategies to control Covid- 19**, St. Joseph`s College, Tiruchirappalli, 30-05-2020.
52. **XXXIII Academic Conference on Access to quality Education in India- Challenges and Opportunities with special reference to NEP-2020**. Organized by Punjab Agricultural University, Ludhiana, Punjab 01-02 March 2025.

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 July**2021**.
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 by Imayam 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 for the conference

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

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**

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.

Articles/Chapter published in Books

No	Title with page nos.	Book title, Editor & Publisher (with ISSN/ISBN)	No of Co-authors
1	Orchid Mycorrhiza pp 66-90.	Mycorrhizas: Role and Applications Ed. V.S.Mehrotra, Allied Publishers, New Delhi. ISBN:81-7764-704-0	1
2	Essentiality of Data bases, pp 255-264.	Biotechnology in the Welfare of Mankind Vol.I. Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad ISBN:81-88279-28-5	2
3	<i>Rhizoctonia</i> -a data base approach-I, pp 193-210.	Basic concept of Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad ISBN:81-88279-01-3	2
4	<i>Rhizoctonia</i> -A similarity approach In: Basic concept of Bioinformatics. pp 211-218.	Basic concept of Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad, ISBN:81-88279-01-3	2
5.	<i>Rhizoctonia</i> -A Data base approach-II, pp 219-258.	Basic concept of Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad ISBN:81-88279-01-3	2
6	A potential for Therapeutics. pp 181-200.	Ethnomedicine and Human Welfare Vol.III. Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad, ISBN:81-88279-15-3	2
7	Herbal remedies., pp 69-83.	Role of Biotechnology in Medicinal and Aromatic plants Vol. XI, Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad ISBN:81-88279-11-0	2

8	Molecular Studies on the Mycorrhizal fungi.pp 61-90	Molecular Systematics Ed. S. John Britto, The Rapinat Herbarium ISBN;978-81-908503-0-7	3
9	Phenological and Cytological related molecular approaches. pp 185-201.	Molecular Systematics Ed. S. John Britto, The Rapinat Herbarium, ISBN;978-81-908503-0-7	4
10	New Strategies on Molecular Biology applied to Microbial Systematics. pp 202-218.	Molecular Systematics Ed. S. John Britto, The Rapinat Herbarium, ISBN;978-81-908503-0-7	4
11	Computer based Resources for Molecular Systematics. pp 305-326.	Molecular Systematics Ed. S. John Britto, The Rapinat Herbarium, ISBN;978-81-908503-0-7	2
12	Usage of Abstracts in Systematics. pp 236-304.	Molecular Systematics Ed. S. John Britto, The Rapinat Herbarium, ISBN;978-81-908503-0-7	2
13	Ethnomedicine and ethnotherapeutics. pp 193-203.	Ethnomedicine and Human welfare Vol. I, Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad, ISBN:81-88279-15-3	2
14	Medical Anthropology. pp 204-212.	Ethnomedicine and Human welfare Vol. I, Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad ISBN:81-88279-15-3	2
15	Data bases-some back ground information., pp 154-172.	Introductory Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad	1
16	Pathway databases-an introduction. pp 186-193.	Introductory Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad	1
17	Finding a sequence record for a gene., pp 194-207.	Introductory Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad	1
18	Sequence alignment. pp 208-220.	Introductory Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad,	1
19	Protein Engineering: Orchestrating future Biosciences, pp 221-231.	Introductory Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad	1

20	Using BLAST for similarity searching. pp 252-268.	Introductory Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad	1
21	Aspects of advanced protein Engineering. pp 269-283.	Introductory Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad	3
22	An encyclopedia of bioinformatics web resource- part I. pp 284-297.	Introductory Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad,	2
23	An encyclopedia of bioinformatics web resource- part I. pp 298-318.	Introductory Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad,	2
24	Tracing the development of various important molecules visualization techniques. An encyclopedia of bioinformatics web resource- part I., pp 341-348.	Introductory Bioinformatics Ed. Irfan Alikhan, Ukaaz Publication, Hyderabad	1
25	<i>In vitro</i> analysis of <i>Seidenfia rheedii</i> (Sw.) Szlach. (<i>Malaxis rheedii</i> Sw.) with reference to microbes, pp 168-210.	Biotechnology of Orchids In: Orchids: Biodiversity and Conservation. Ed. S. John Britto, The Rapinat Herbarium ISBN;978-81-908503-0-7	2
26	Features of mycorrhizal colonisation in the ground Orchid <i>Cymbidium aloifolium</i> (L.) Sw. pp 211-214.	Orchids: Biodiversity and Conservation Ed. S. John Britto, The Rapinat Herbarium, ISBN;978-81-908503-0-7	2
27	Structural and biochemical studies of the mycorrhizal orchid <i>Acampe praemorsa</i> (Roxb.) Blatter & McCann., pp 215-219.	Orchids: Biodiversity and Conservation Ed. S. John Britto, The Rapinat Herbarium ISBN;978-81-908503-0-7	2
28	Histochemistry of the root <i>Spathoglottis plicata</i> Blume. pp 220-224.	Orchids: Biodiversity and Conservation Ed. S. John Britto, The Rapinat Herbarium, ISBN;978-81-908503-0-7	2

29	Structural elucidation of cell wall polysaccharides in <i>Rhizoctonia Oryza sativa</i> . pp 225-244	Orchids: Biodiversity and Conservation Ed. S. John Britto, The Rapinat Herbarium ISBN;978-81-908503-0-7	2
30	Polyphenol analysis in <i>Aerides crispera</i> Lindl. In: Orchids: Biodiversity and Conservation. pp 245-265.	Orchids: Biodiversity and Conservation Ed. S. John Britto The Rapinat Herbarium, ISBN;978-81-908503-0-7	2
31	Status of orchids in Shervaroys of the Eastern Ghats in India. pp 266-276.	Orchids: Biodiversity and Conservation Ed. S. John Britto The Rapinat Herbarium, ISBN;978-81-908503-0-7	3
32	<i>Habenaria perrottetiana</i> - a mycorrhizal study. pp 277-287.	Orchids: Biodiversity and Conservation Ed. S. John Britto The Rapinat Herbarium, ISBN;978-81-908503-0-7	2
33	Antibacterial activity of some orchids. pp 288-305.	Orchids: Biodiversity and Conservation Ed. S. John Britto The Rapinat Herbarium ISBN;978-81-908503-0-7	2
34	<i>In vitro</i> propagation of <i>Vanilla planifolia</i> Andr. - an attempt. pp 306-309.	Orchids: Biodiversity and Conservation Ed. S. John Britto The Rapinat Herbarium. ISBN;978-81-908503-0-7	2
35	Orchids - A potential source of secondary metabolites. pp194-225	Role of Biotechnology in Medicinal and Aromatic plants Vol.X (ed.) Irfan A.Khan Ukaaz Publication, Hyderabad. ISBN:81-88279-11-0	2
36	Therapeutic values of Orchids. pp 260-275.	Orchids: Biodiversity and Conservation Ed. S. John Britto, The Rapinat Herbarium, Tiruchirappalli ISBN;978-81-908503-0-7	2
37	Conservation of Orchids – A problem oriented approach pp 1-16.	Orchids: Biodiversity and Conservation Ed. S. John Britto, The Rapinat Herbarium, Tiruchirappalli, ISBN;978-81-908503-0-7	2

38	Ethanopharmacological Value of Orchids. pp 228-259.	Orchids: Biodiversity and Conservation Ed. S. John Britto, The Rapinat Herbarium ISBN;978-81-908503-0-7	3
39	Database analysis on protein and DNA. 213-247.	Concepts in Bioinformatics Ed. Irfan A.Khan Ukaaz Publication, Hyderabad	2
40	Capturing Proteomics using computerized databases. pp 61-113.	Essentials of Bioinformatics ed. Irfan A.Khan Ukaaz Publication, Hyderabad ISBN:81-88279-12-9	1
41	Trends in MICs. pp 129-146.	Essentials of Bioinformatics ed. Irfan A. Khan Ukaaz Publication, Hyderabad ISBN:81-88279-12-9	1

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