

## BIO DATA

Name : **Dr. H. David Raja**

Residence : **9/144- Church Street, A.N. Mangalam Post,  
Karippatti via, Valeppady Taluk,  
Akarakaram, Salem - 636106**

Date of Birth : **03.06.1979**

Office Address : **Assistant Professor  
Department of Botany  
St. Joseph's College  
Tiruchirappalli**

Category : **BC**

Email/Phone : **[bioraja2004@yahoo.co.in](mailto:bioraja2004@yahoo.co.in) ; 9443192617**

Qualification : **Ph. D – Botany**



<b>COURSE ATTAINED</b>	<b>DEPARTMENT &amp; COLLEGE</b>	<b>UNIVERSITY</b>	<b>YEAR OF PASSING</b>	<b>CLASS</b>
<b>UG</b>	<b>Department of Botany St. Joseph's College</b>	<b>Bharathidasan University</b>	<b>2002</b>	<b>I</b>
<b>PG</b>	<b>Department of Botany St. Joseph's College</b>	<b>Bharathidasan University</b>	<b>2004</b>	<b>I</b>
<b>Ph. D</b>	<b>Department of Botany St. Joseph's College</b>	<b>Bharathidasan University</b>	<b>2010</b>	<b>Commented</b>

Ph. D Thesis Title : **Studies on *in vitro* propagation and intraspecific genetic variability in the wild phenotypes of *Abrus precatorius* L. – A medicinal plant.**

Designation : **Assistant Professor**

Teaching experience : **UG - 10 Years & 8 Months  
PG - 10 Years & 8 Months**

## Research Experience:

Designation	Name of Employer	Period	
		From	To
<b>JRF</b>	<b>St. Joseph's College, Department of Botany, Tiruchirappalli, Tamil Nadu, India</b>	<b>01.06.2004</b>	<b>30.06.2007</b>
<b>SRF</b>	<b>Institute of Forest Genetics and Tree Breeding, Government of India, Coimbatore, Tamil Nadu, India</b>	<b>09.03.2009</b>	<b>30.09.2009</b>

## Publications of Research Papers

<b>Title / Journal Name/ Other Details</b>
Effect of purified vermicast extract with plant growth regulators on indirect regeneration of <i>Naregamia alata</i> Wight & Arn from leaf explant and genetic fidelity analysis of regenerants. Plant Cell, Tissue and Organ Culture (PCTOC) <b>Volume No.:</b> 151 <b>PP.:</b> 23-34 <b>ISSN No.:</b> 0167-6857,1573-5044 <b>Impact Factor:</b> 2.726 <b>H Index:</b> 81 <b>C Index. :</b> 0 <b>Year:</b> 2022
<i>Pseudomonas aeruginosa</i> strain EBV21 16S ribosomal RNA gene, partial sequence NCBI GENE BANK <b>Volume No.:</b> GenBank: ON076877 <b>PP.:</b> 0 <b>ISSNO.:</b> 0 <b>Impact Factor:</b> 0 <b>H Index No.:</b> 0 <b>C Index No.:</b> 0 <b>Year:</b> 2022
<i>Lindernia minima</i> voucher BSI/SRC/5/23/2021/Tech/94 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; chloroplast NCBI GENE BANK <b>Volume No.:</b> OM540357 <b>PP.:</b> 0 <b>ISSNO.:</b> 0 <b>Impact Factor:</b> 0 <b>H Index No.:</b> 0 <b>C Index No.:</b> 0 <b>Year:</b> 2022
Effect of Vermicompost extract with Phytohormones on micropropagation and in vitro flower induction of <i>Lindernia minima</i> (Benth) Mukerjee- An endangered plant species endemic to Tamil Nadu, India South African Journal of Botany, Elsevier Publication <b>Volume No.:</b> 149 <b>PP.:</b> 731-739 <b>ISSNO.:</b> 0254-6299 <b>Impact Factor:</b> 3.11 <b>H Index No.:</b> 68 <b>C Index No.:</b> 4.3 <b>Year:</b> 2022
<i>Lindernia minima</i> voucher 3031 maturase K (matK) gene, partial cds; chloroplast. NCBI GenBank: OP296989.1 NCBI GENE BANK DEPOSIT <b>Volume No.:</b> OP296989.1 <b>PP.:</b> 0 <b>ISSNO.:</b> 0 <b>Impact Factor:</b> 0 <b>H Index No.:</b> 0 <b>C Index No.:</b> 0 <b>Year:</b> 2022
<i>Ranunculus wallichianus</i> voucher SJCOT2797 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit-like gene, partial sequence; chloroplast NCBI GENE BANK <b>Volume No.:</b> GenBank: MW291567 <b>PP.:</b> 0 <b>ISSNO.:</b> 0 <b>Impact Factor:</b> 0 <b>H Index No.:</b> 0 <b>C Index No.:</b> 0 <b>Year:</b> 2021
Effect of coconut water and cytokinins on rapid micropropagation of <i>Ranunculus wallichianus</i> Wight & Arn - A rare and endemic medicinal plant of the Western Ghats, India. In Vitro Cell. Dev. Biol.-Plant. Springer Publication <b>Volume No.:</b> 57 <b>PP.:</b> 365-371 <b>ISSN No.:</b> 1054 – 5476 <b>Impact Factor:</b> 2.252

<p><b>H Index: 68 C Index. :2.9 Year: 2021</b></p>
<p>Efficient in vitro plant regeneration from leaf-derived callus and genetic fidelity assessment of an endemic medicinal plant <i>Ranunculus wallichianus</i> Wight &amp; Arn by using RAPD and ISSR markers Plant Cell, Tissue and Organ Culture (PCTOC), Springer Publication <b>Volume No.: 147 PP.: 413-420 ISSN No.: 0167-6857,1573-5044 Impact Factor: 2.711</b> <b>H Index: 81 C Index. :0 Year: 2021</b></p>
<p>Micropropagation of <i>Plumbago zeylanica</i>. An important medicinal plant World journal of pharmacy and pharmaceutical sciences <b>Volume No.: 7 PP.: 1823-1829 ISSN No.: 2278-4357 Impact Factor: 0</b> <b>H Index: 0 C Index. :0 Year: 2018</b></p>
<p>Studies on <i>in vitro</i> and <i>ex vitro</i> seed germination of <i>Passiflora foetida</i> using various seed germination enhancing substances. World journal of pharmacy and pharmaceutical sciences <b>Volume No.: 7 PP.: 1823-1829 ISSN No.: 2278-4357 Impact Factor: 0</b> <b>H Index: 0 C Index. :0 Year: 2018</b></p>
<p>Effect of Cytokinins on Micropropagation of <i>Anoectochilus elatus</i> Lindl. from shoot tip explants - An Endangered Medicinal Orchid. IOSR Journal of Biotechnology and Biochemistry (IOSR-JBB) <b>Volume No.: 3 PP.: 73-76 ISSN No.: 2455-264X Impact Factor: 3.98</b> <b>H Index No.: 0 C Index No.: 49.8% Year: 2017</b></p>
<p>Survey and enumeration of <i>Anoectochilus elatus</i> Lindl and <i>Dendrobium aquem</i> Lindl - threatened medicinal orchids of Kolli hills (Eastern ghats) Tamil Nadu, India. World Journal of Pharmacy and Pharmaceutical Sciences <b>Volume No.: 6 PP.: 1417-1424 ISSN No.: 2278-4357 Impact Factor: 0</b> <b>H Index No.: 0 C Index No.: 0 Year: 2017</b></p>
<p>In vitro propagation of <i>Nyctanthes arbor-tristis</i> L. Indian Journal of Biotechnology <b>Volume No.: 16 PP.: 340-343 ISSN No.: 0972- 5849 Impact Factor: 0</b> <b>H Index No.: 27 C Index No.: 112 Year: 2017</b></p>
<p>Micropropagation of <i>Phyllanthus amarus</i> from nodal explant World Journal of Pharmacy and Pharmaceutical Sciences <b>Volume No.: 4 PP.: 1153-1157 ISSN No.: 2278-4357 Impact Factor: 0</b> <b>H Index No.: 0 C Index No.: 0 Year: 2015</b></p>
<p>Micropropagation of <i>Solanum trilobatum</i> from Shoot-tip explant World Journal of Pharmacy and Pharmaceutical Sciences <b>Volume No.: 4 PP.: 1730-1734 ISSN No.: 2278-4357 Impact Factor: 0</b> <b>H Index No.: 0 C Index No.: 0 Year: 2015</b></p>
<p>In vitro Propagation of <i>Mentha viridis</i> L. from Nodal and Shoot tip Explants. Plant Tissue Cult. &amp; Biotech. <b>Volume No.: 18(1) PP.: 1-6 ISSN No.: 1817-3121 Impact Factor: 0</b> <b>H Index No.: 0 C Index No.: 0 Year: 2008</b></p>
<p>Micropropagation of <i>Nyctanthes arbor-tristis</i>. Journal of Tropical Medicinal Plants <b>Volume No.: 9(2) PP.: 400-403 ISSN No.: 1511-8525 Impact Factor: 0</b> <b>H Index No.: 0 C Index No.: 0 Year: 2008</b></p>

**Seminars (S) / Conferences (C) /Workshops (WS) attended and the source of funding (National (N) / International (IN)) with details of outstanding participants, if any**

Title	Type	Organization Name	Place	Days	From Date	To Date
Training Workshop on Plant Taxonomy Key Preparation	S	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	1	2014-09-26	null
National Workshop on Vermiculture Techniques	W	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	1	2014-12-12	null
One Day Workshop on Plant Tissue Culture Techniques	W	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	1	2014-12-22	null
National Seminar on Prospects and Challenges of Stem Cell Research	S	Department of Biotechnology, St. Joseph's College	Tiruchirappalli	1	2015-01-12	null
National Seminar on Clinical Research	S	Department of Biochemistry, St. Joseph's College	Tiruchirappalli	1	2015-01-21	null
National Symposium on Medicinal and Aromatic Plants	Y	Department of Biotechnology, St. Joseph's College	Tiruchirappalli,	1	2017-02-15	null
DBT-STAR Programme Two days Workshop on In vitro propagation Techniques and Ex vitro acclimatization Strategies - Acted as Organizing Secretary	W	DBT-STAR Programme Two days Workshop, Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli, Tamil Nadu, India	2	2017-02-22	null
Science Academies Lecture Workshop on Vistas in Biodiversity and Bioresources	W	Indian Academy of Sciences and Indian Academy of Sciences	Department of Botany, St. Joseph's College (Autonomous)	3	2017-08-02	null
Animal Cell Culture Workshop	W	Life Teck Research Centre	IIT Chennai	1	2017-08-05	null
PHRASTAFEST-18 Inter Collegiate Science Colloquium	Z	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	1	2018-02-09	2018-02-09

National Conference on Application of Plant Metabolites and Vaccine Production	C	PG and Research Department of Biotechnology	Selvamm Arts and Science College, Namakkal	1	2018-02-22	null
NCC-PRCN Course 1	O	Officer Training Academy, Kamptee, Nagpur	Officer Training Academy, Kamptee, Nagpur	21	2018-07-02	null
NCC-PRCN Course 2	O	Indian Air Force Station, Tambaram, Chennai	Indian Air Force Station, Tambaram, Chennai	60	2018-09-04	null
Leadership and Organisational Behaviour	W	C-LABS, Air Force Administrative College, Coimbatore	C-LABS, Air Force Administrative College, Coimbatore conducted at Air Force Station, Tambaram, Chennai	2	2018-10-16	null
PHRASTAFEST-2019 Inter Collegiate Science Colloquium	Z	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	1	2019-02-12	2020-02-12
National Symposium on Medicinal and Aromatic Plants	Y	Department of Biotechnology, Sastra Deemed University, Thanjavur	Sastra Deemed University, Thanjavur	2	2019-09-25	null
DBT-STAR Scheme Sponsored Inter Collegiate Herbo Fest 2019 Competition	Z	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	1	2019-09-25	2019-09-25
Co-ordinator for Differently Abled Persons Mega Job Fair conducted We Are Your Voice	Z	St. Joseph's College (Autonomous)	Tiruchirappalli	1	2019-11-17	2019-11-17
Them - Oral Cancer	S	Department of Botany, St. Joseph's College (Autonomous)T	Tiruchirappalli	1	2020-01-07	2020-01-07
Refresher Course in Life Science	R	Pondicherry University	Pondicherry	14	2020-02-03	2020-02-03
PHRASTAFEST-2020 Inter Collegiate Science Colloquium	Z	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	1	2020-02-12	2020-02-12

Bioexplore	I	L.R.G. Government Arts and Science College for Women,	Tirupur, Tamil Nadu, India.	4	2020-07-03	2020-07-06
National Webinar on Human Origin, Health and Disease	Z	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	1	2020-07-14	2020-07-14
Natural Products for Human Health Management	Z	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	1	2020-07-22	2020-07-22
Unlocking Approaches Biological Research	I	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	3	2020-07-24	2020-07-26
International Webinar on Medicinal Plant Research and Drug Discovery	Z	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	4	2020-08-03	2020-08-06
Two - week interdisciplinary refresher course in environmental Studies on the theme, 21st century environmental issues, challenges & solutions	R	Teaching Learning Centre, Ramanujan College University of Delhi under the aegis of MINISTRY OF EDUCA	Ramanujan College University of Delhi (Online Mode)	15	2021-07-15	2021-07-29
PHRASTAFEST-2022 Inter Collegiate Science Colloquium	Z	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	1	2022-03-25	2022-03-25
Internship programme on Basic Techniques and Trends in Plant Tissue Culture for PG Biotechnology Students from Srimad Andavan Arts and Science College, Tiruchirappalli	Z	Department of Botany, St. Joseph's College (Autonomous)	Tiruchirappalli	13	2022-05-02	2022-05-16
In-Service Teacher Training Programme in Life Sciences	O	Tamilnadu State Council for Higher Education	Pudukkottai	2	2022-05-05	2022-05-06

National Conference on Phytomedicine	I	Department of Botany, Bharathiyar University	Coimbatore	1	2023-01-05	2023-01-06
Milletzo 2023 an Intercollegiate MilletFest	Y	Department of Botany, St. Joseph`s College (Autonomous)	Tiruchirappalli	1	2023-03-08	2023-03-01
Internship programme on Basic Techniques and Trends in Plant Tissue Culture for PG Botany Students from Srimad Andavan Arts and Science College, Tiruchirappalli	Z	Department of Botany, St. Joseph`s College (Autonomous)	Tiruchirappalli	15	2023-03-09	2023-03-29

**Resource Person: (Special Lectures / Workshops / Seminars / Association Activities/ Alumni Meeting)**

Type of Programme	Title	Beneficiaries	Days	Date
Award for Appreciation of NCC Activities	NCC Activities	NCC Cadets	1	2022-11-27
III UG Functional Group Meeting	Environment	UG Students	1	2022-10-19
An Inter- Collegiate Technical Fest - BIO- DE- FIESTA 2022	Acted as Judge	UG and PG Students	1	2022-10-14
Induction Programme for I UG Students	Service Organizations of SJC	UG Students	1	2022-07-28
Dr. Rangarajan InterDepartment Quiz Contest	Quiz Master	UG and PG Students	1	2022-03-23
Tamil Nadu Science & Technology Centre, Ministry of Culture , Government of India	National Science Week	UG and PG College Students	1	2022-02-28
Chief Guest for National Science Day & Guest Lecture	Climate Emergency and Biodiversity Conservation	College Students	1	2020-02-28
Prof. V. K. George Inter Department Quiz Contest 2020	Prof. V. K. George Inter Department Quiz Contest - Quiz Master	UG and PG College Students	1	2020-02-24
Prof. V. Rangarajan Inter Department Quiz Contest - Quiz Master	Prof. V. Rangarajan Inter Department Quiz Contest 2019	UG and PG College Students	1	2019-02-27
PHRASTA-FEST 2K19 Technical Scientific Symposium - Acted as Organizing Secretary	PHRASTA-FEST 2K19	UG and PG College Students	1	2019-02-12

IAS ACADEMY - Coaching Classes	IAS ACADEMY Coaching Classes for Biology	UG and PG Students	1	2018-12-19
Science Academies' Refresher Course sponsored by IAS, INSA, NASI Gov. of India	Known to Unknown Techniques in Biology	College Professors	1	2018-11-06
DST SPONSORED -INSPIRE INTERNSHIP SCIENCE CAMP, NEW DELHI	INSPIRE INTERNSHIP SCIENCE CAMP	11th and 12 th standard Science Students	1	2018-08-07
Subject Related Inter Collegiate Competition	PHRASTA FEST – Organizing Secretary	UG and PG College Students	1	2018-02-09
Refresher Course - Indian Academy of Sciences, Bangalore and INSA New Delhi,	``BIOPROSPECTION OFBIORESOURCES: LANDTO LAB APPROACH``	Professors and Research Scholars	15	2018-01-04

**Research projects from National (N) / International (IN), funding agencies and Total grants received.**

Title of the Project	Type	Status	Funding Agency	Duration	Amount in Rupees	Year
Studies on in vitro propagation and re-establishment of Anoectochilus elatus Lindl. and Dendrobium aquem Lindl. Two important threatened medicinal orchids of Kolli Hills in Eastern Ghats, Tamil Nadu.	MI	C	UGC	2 Years	440000	2015
In vitro propagation and Clonal Fidelity analysis of Naregamia alata ? An Endemic Medicinal Plant of Kothaiar Hills, Tirunelveli region of Western Ghats.	MI	O	St. Joseph's College Research Grant - Staff	1 Year	28,000	2021
Isolation, Characterisation and Identification of microorganisms from unorganized sewage samples and evaluating their Xenobiotic Biodegradability	MI	O	St. Joseph's College Research Grant Student	1 Year	8000	2021



## Areas of consultancy and income generated

Organization Name	Consultation Type	Persons Involved	Date	Revenue	Days
GCIC, Department of Botany, St.Josaeph`s college, Trichy	Plant Tissue Culture -M.Sc Project Work	1	2018-02-01	1000	40

## Achievements

### a). Ph. D Awarded to

Scholar Code	Scholar Name	Date of ViVa	Title
39077/Ph.D.K10 /Botany/Fulltime	P. SRINIVASAN	2022	Studies on In vitro propagation, Molecular characterization and Phyto-therapeutic analysis of Ranunculus wallichianus Wight & Arn - An Endemic medicinal plant

### b). Awards (A) / Recognitions (R) received at National (N) / International(IN) level

Award Name	Organization Name	Date
Best Research Paper Award - Second Prize in National Conference on Application of Plant Metabolites and Vaccine Production at Selvamm Arts and Science College, Namakkal	PG and Research Department of Biotechnology, Selvamm Arts and Science College, Namakkal	2018-02-22
Rev. Dr. J.L. Gnanarathinam SJ Cash Award - Best Paper Published	St. Joseph`s College 174th College Day	2018-03-17
College Management & Dr. D.I. Arockiasamy Cash Award for the Best paper published in Sciences with Good Impact Factor	St. Joseph`s College, 178th College Day	2022-05-28
College Management & Dr. D.I. Arockiasamy Cash Award for the Best paper published in Sciences with Good Impact Factor	St. Joseph`s College, 177th College Day	2021-04-10
Best ANO 2022-2023 in Air Wing NCC	NCC Group Head Quarters, Tiruchirappalli	2023-03-01
Award for Appreciation of NCC Activities	NCC Group Head Quarters, Tiruchirappalli	2022-01-27

## Academic Member

BodyName	Position	Period
UG and PG Board of Study Member in Biotechnology	Member	2017- 2020
Advisory Committee Board	Member in National Conference	2017-2018
NCC Air Wing	Associate NCC Officer	2017 onwar
NCC - C Certificate Exam Board Member	Member	2018-2019
Indian Journal of Biotechnology	Reviewer	2020
NCC - B&C Certificate Exam Evaluation Board Member	Associate NCC Officer - NCC Air Wing	2019-2020

**Signature**

