

RESUME

Dr. P. Selvaraj
Assistant Professor
Department of Zoology
St. Xavier's College (Autonomous),
Palayamkottai – 627 002,
Tirunelveli, Tamil Nadu



PERSONAL DETAILS

Date of Birth : 29.10.1975
Qualification : M.Sc., M.Phil., Ph.D.
Designation : Assistant Professor
Department : Department of Zoology
Community : MBC
Religion : Catholic
Nationality : Indian
Mobile : 9791057506
Email ID : drselvabernad@gmail.com

ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
B. Sc.	Zoology	St. Jude's College, Thothoor	M. S. University, Tirunelveli	1996
M. Sc.	Zoology	Scott Christian College, Nagercoil	M. S. University, Tirunelveli	1998
M. Phil.	Zoology	Scott Christian College, Nagercoil	M. S. University, Tirunelveli	1999
Ph.D.	Zoology	St. Xavier's College, Palayamkottai	M. S. University, Tirunelveli	2003

ACADEMIC IDENTITY

*VIDWAN ID	288194
*ORCID ID	https://orcid.org/0000-0003-2257-7217
*SCOPUS ID	15728671500 http://www.scopus.com/inward/authorDetails.url?

	authorID=15728671500&partnerID=MN8TOARS
*RESEARCHER ID/ PUBLONS ID	GOP-3447-2022
SciProfiles	https://sciprofiles.com/profile/2860413
GOOGLE SCHOLAR LINK	https://scholar.google.com/citations?view_op=list_works&hl=en&user=c5Mu_q8AAAAJ

TEACHING EXPERIENCE

Date of Appointment	18.06.2012
Date of Retirement	29.10.2035
Teaching Experience	UG Since 2008
	PG Since 2008
	M.Phil. 2008 to 2016
Research Guidance	M Phil: Completed 3 On-going : Nil Ph D: Completed 4 On-going : 1

COURSES/CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
B.Sc., M.Sc., M.Phil.	St. Xavier's College	16.06.2008	16.04.2012	4
B.Sc., M.Sc., M.Phil.	St. Xavier's College	18.06.2012	Till date	13

AWARDS RECEIVED

1.	Visiting Scientist to International Center for Insect Physiology and Ecology (ICIPE), Nairobi, Kenya during 8-29th May 2005.
2.	Visiting Scientist to Horticultural Crop Research Institute (HORDI), Sri Lanka during 6th 13th June 2005

ADMINISTRATIVE EXPERIENCE

S. No	DESIGNATION	INSTITUTIONS	YEAR
1.	Research Officer	Sun Agro Biotech Research Centre, Porur, Chennai	2004-2008
2.	Director in-charge	Entomology Research unit	Since 2016

MEMBERSHIP		
S. No	Designation	Particulars
1.	Member	Hexapoda Journal
2.	Member of the Editorial Board	Journal of Biopesticides
3.	Reviewer	Saudi Journal of Biological Sciences, Elsevier
4.	Subject Expert for the Board of Studies	Department of Zoology, PSG College of Arts and Science, Coimbatore (2019 – 2022)
5.	Question setter	CMS College, Kottayam, Kerala (2018-2019)
6.	Doctoral Committee Member	M.S. University, Tirunelveli
7.	Doctoral Committee Member	M.K. University, Madurai
8.	Ph.D. Thesis examiner	Kerala University, Tiruvananthapuram
9.	Question setter and Scrutinizing committee member	Madras University (UG Board) since 2024

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (3)			
S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Orientation	The Gandhigram Rural Institute – Deemed to be University	14/11/2018 to 13/12.2018 Dindigul, Tamilnadu
2	Refresher	Teaching and Learning Centre,	17/05/2021 to 31/05/2021

		Ramanujan College	University of Delhi
3	Refresher	Teaching and Learning Centre, Ramanujan College	05/07/2021 to 19/07/2021 University of Delhi
4.	Orientation	Teaching and Learning Centre, Ramanujan College	16/09/2023 to 30/09/2023 University of Delhi

DETAILS OF RESEARCH WORK		
Research Stages	Title of the Thesis	University where the work was carried out
M. Phil.	Antibacterial potential of chosen marine algae of Kanyakumari coast	M. S. University, Tirunelveli
Ph.D.	<i>Helicoverpa armigera</i> and <i>Spodoptera litura</i> control using fern phytoecdysone mimics (DST, Govt. of India Funded project).	M. S. University, Tirunelveli

AREAS OF RESEARCH
Isolation, characterization and insecticidal activity of Phytoecdysones
Biosynthesis, characterization and evaluation of nano materials
Exploration and biocontrol potential of insect natural enemies
Classical and Molecular taxonomy of Reduviid predators
Classical and molecular taxonomy of Entomopathogenic fungi

RESEARCH PROJECTS CARRIED OUT			
S. No.	Title of the Project (Minor)	Name of the Funding Agency & Amount	Duration
1	Pigeon pea pod fly parasitoids	Australian Biological Control Laboratory (ABCL), United States Department of Agriculture (USDA),	2004-2006

	In collaboration with Dr. Edwin Aberu	USA. USD 6,000	
2	<i>Trichogramma</i> parasitoids in collaboration with Dr. S. Sithanantham	International Centre for Insect Physiology and Ecology (ICIPE), Nairobi, Kenya and Horticultural Crop Research Institute (HORDI) in Sri Lanka, USD 2,000	2005-2006
3	Mango fruitflies and their parasitoids in collaboration with Dr. Lux	African Fruitfly Initiative (AFI), International Center for Insect Physiology and Ecology (ICIPE), Nairobi, Kenya and Horticultural Crop Research Institute (HORDI) in Sri Lanka. USD 2,000	2005-2006
4	Lobate Lac Scale parasitoids in different agro climatic zones in India in collaboration with Dr. Robert W. Pemberton,	Invasive Plant Research Laboratory, USDA, University of Florida, USA. USD 12,000	2006 - 2007
5	Olive fruit fly parasitoids in India, in collaboration with Dr. Alan Kirk and Dr. Charlie Picket	European Biological Control Laboratory (EBCL),USDA, France. USD 6,100	2007-2008
6	Pests and their natural enemies of Morinda in South India and eco-friendly pest management.	World Noni Research Foundation (WNRF), Chennai. INR 7,50,000	2007-2009
7	Training and demonstration for bioinput technology for the farmers in Tirunelveli district	Dissemination of Innovative Technology (DIT), Programme Funded by TNSCST , Govt. of Tamil Nadu INR 40,000	2010
8	Screening, characterization and impact of chosen ferns and their nanoparticles on <i>Spodoptera litura</i>	Research Funding for Research Scholars INR 3,00,000 0TNSCST/SFRS/VR/04/2018-19	2018-2019

PUBLICATIONS				
BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
4	7	14	16	21
OTHER INDEXED	AS A RESOURCE PERSON	PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS	WEBINARS, SEMINARS, WORKSHOPS ATTENDED	
2	8	15	22	

PUBLICATIONS: BOOKS (4)				
S. No	Title of the Book	Publication	Year	
1	<i>Biotechnological Management of Nematode Pests and Scope of Entomopathogenic Nematodes.</i>	Sun Agro Biotech Research Centre Publication, <i>Sun Ray</i> , 1:185	2005	
2	<i>Organic Crop Protection Technologies for Export Agri-Horticulture.</i>	Sun Agro Biotech Research Centre Publication, <i>Sun Ray</i> , 2: 272 p.	2006	
3	Environmental Science	St. Xavier's College	2013	
4	Biopesticides: Innovations and Practices	Smith and Franklin Academic Publishing Corporation, UK. ISBN : 978-1-9164009-1-7	2017	

BOOK CHAPTERS (7)			
S. No	Title of the Paper	Name of the Book	ISSN No., Pg.No.
1	Effect of fern extracts on the Biology of <i>Spodoptera litura</i> .	In Green pesticides for insect pest management. Narosa publishing House New Delhi. P.	2004, 81-90.
2	Networking approach for enhancing the impact potential of biocontrol agents: <i>Trichogramma</i> case	In <i>Organic Crop Protection Technologies for Export Agri-Horticulture</i> . Sun Agro Biotech Research Centre Publication Sun	2006, 2: 81-87.

	study.	Ray, 2	
3	Consortium approach towards monitoring and management of fruit flies in Tamil Nadu, India.	In <i>Organic Crop Protection Technologies for Export Agri-Horticulture</i> . Sun Agro Biotech Research Centre Publication Sun Ray, 2	2006, 230-237.
4	The Ash whitefly, <i>Siphoninus phillyreae</i> (Haliday).	In The Whitefly or Mealywing bug. LAP Lambert Academic Publishing, GmbH Heinrich Booking str. 6-8, 66121 Saarbrücken Deutschland	(ISBN: 9783659130304)
5	Biotechnological Options for the Management of Insect Pests in Agriculture.	Biopesticides: Innovations and Practices , Sahayaraj and Selvaraj (editors) first edition © 2015 Smith and Franklin.	2017, (ISBN : 978-1-9164009-1-7), P 1-12.
6	Phytochemical Extraction and Screening.	Biopesticides: Innovations and Practices, Sahayaraj and Selvaraj (editors) first edition © 2015 Smith and Franklin.	2017, (ISBN : 978-1-9164009-1-7), P 76-87.
7	Antibacterial activity of phytoecdysone fractions and their nanoformulations of three ferns.	Pteridophytes Today: Challenges and opportunities (Proceedings of the Symposium held at Pune, India, March, 3-4, 2017). Eds. Satish Chandra Verma <i>et. al.</i>	2018

PUBLICATIONS: SCOPUS INDEXED JOURNALS (14)WEB OF SCIENCE (12)			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1.	The Potential of Dutasteride for Treating Multidrug-Resistant <i>Candida auris</i> Infection	Pharmaceutics, http://dx.doi.org/10.3390/pharmaceutics16060810	1999-4923; 16 (6):16, 2024 IF: 5.8
2.	Role of <i>Pityrogramma calomelanos</i> (L.) Link in dietary and nutritional indices of <i>Spodopteralitura</i> (F.) (Lepidoptera: Noctuidae).	<i>Journal of Biopesticide</i> https://doi.org/10.57182/jbiopestic.16.1.01-08	2023; 16 (1): 1-8 0974 –391X IF: 0.18 (0.39)
3.	Pathogenicity of native <i>Beauveria bassiana</i> (Balsamo-Crivelli) Vuillemin	<i>Journal of Biopesticide</i> http://dx.doi.org/	2023; 16 (1): 38-44 0974 –391X

	isolate from Tirunelveli on <i>Dysdercus cingulatus</i> (Hemiptera: Pyrrhocoridae)	10.57182/ jbiopestic.16.1.38-44	IF: 0.18 (0.39)
4.	Composition characteristics of the Mitochondrial encoded COX1 gene of Triatominae (Heteroptera: Reduviidae)	<i>Biological Forum – An International Journal</i>	2023;15(6): 636-642 0975-1130; 2249-3239
5.	The sequence between mitochondrial nad1-nad2 genes are potential molecular markers of harpactorinae predators (Heteroptera: Reduviidae)	<i>Journal of Biopesticide</i> https://doi.org/ 10.57182/ jbiopestic.15.2.129-135	2022; 15(2) : 129-135 0974 –391X IF: 0.18 (0.39)
6.	Insecticidal Mechanism of Botanical Crude Extracts and Their Silver Nanoliquids on <i>Phenacoccus solenopsis</i>	Toxics http://dx.doi.org/ 10.3390/toxics11040305	2305-6304 2022, 11(4), pp. 1-19. IF: 4.472 ()
7.	Phytochemical screening and pesticidal efficacy of phytoecdysteroid fraction of a fern <i>Pityrogramma calomelanos</i> (L.) Link against <i>Spodoptera litura</i> (Fabricius.)	<i>Journal of Biopesticides</i> , https://doi.org/ 10.57182/ jbiopestic.15.1.73-81	2022, 15 (1):73-81 0974 –391X IF: 0.18 (0.39)
8.	Bioefficacy of entomopathogenic fungi <i>Metarhizium anisopliae</i> (Metschn.) Sorokin against the cotton stainer, <i>Dysdercus cingulatus</i> (Fab.) (Hemiptera: Pyrrhocoridae).	<i>Journal of Biopesticides</i> , https://doi.org/10.57182/ jbiopestic.15.1.59-72	2022, 15 (1):59-72. 0974 –391X IF: 0.18 (0.39)
9.	1 Antibacterial potentials of methanolic extract and silver nanoparticles from marine algae.	<i>Biocatalysis and Agricultural Biotechnology</i> http://dx.doi.org/ 10.1016/ j.bcab.2020.101719	1878-8181 2020, 28, p.101719. IF : 0.64 (3.281)
10.	2 High prevalence of Aflatoxin B1 in <i>Aspergillus flavus</i> infecting stored rice grains.	<i>Journal of Agricultural Science and Technology</i>	2345-3737

		http://dorl.net/dor/20.1001.1.16807073.2020.22.3.18.8	2020, 22(3), pp.737-745. IF: 0.29 (1.089)
11.3	Insecticidal and antibacterial potential of <i>Syzygium aromaticum</i> (L.) Merrill and Perry.	<i>Journal of Biopesticides</i> https://doi.org/10.57182/jbiopestic.12.2.191-196	0974 –391X 2019, 12(2), pp.191-196. IF: 0.18 (0.39)
12.4	Pest control potential of <i>Cyclosorous interruptus</i> , <i>Christella dentata</i> and <i>Nephrolepis cordifolia</i> on the biology of <i>Spodoptera litura</i> (Fab.).	<i>Journal of Biopesticides</i> https://doi.org/10.57182/jbiopestic.11.1.76-81	0974 –391X 2018, 11(1), pp.76-81. IF: 0.18 (0.39)
13.5	Impact of phytoecdysone fractions of the ferns <i>Cyclosorous interruptus</i> , <i>Christella dentata</i> and <i>Nephrolepis cordifolia</i> on the biology of <i>Spodoptera litura</i> (Fab.).	<i>Journal of Biopesticides</i> https://doi.org/10.57182/jbiopestic.9.2.125-134	0974 –391X 2016, 9(2), p.125. IF: 0.18 (0.39)
14.6	Field Evaluation of three fern extracts on <i>Helicoverpa armigera</i> (Hubner) and <i>Spodoptera litura</i> (Fab.) incidence and infestation and groundnut production.	<i>Legume Research</i>	0250-5371 2013, 36(1): 84-86 IF: 0.35 (0.589)
15.7	Parasitoids of <i>Paratachardina lobata</i> (Hem.,Kerriidae): surveys for biological control of the invasive lobate lac scale.	<i>Journal of Applied Entomology</i> https://doi.org/10.1111/j.1439-0418.2007.01234.x	1439-0418 2008, 132(1), pp.12-17. IF: 0.57 (2.603)
16.8	Persistence of Carbofuron in rice ecosystem and its compatibility with <i>Trichoderma viride</i> , <i>Psuedomonas fluorescens</i> and <i>Asospirillum</i> .	<i>Pestology</i>	2008, XXXII (11): 28-30
17.9	Partial purification and characterization of phytoecdysone from <i>Chrystella parasitica</i> (L.) and	<i>Journal of Biopesticides</i> https://doi.org/10.57182/jbiopestic.1.2.201-205	0974 –391X 2008, 1(2), pp.201-205

	screening its pesticidal properties on lepidopteran pests.		IF: 0.18 (0.39)
18. 10	Entomopathogenic fungi for the control of economically important whiteflies.	<i>Journal of Biological Control</i>	2230 -7281 2007, 21(Sp.), pp.29-36. IF: 0.14 (0.93)
19. 11	Cell mediated immune response of <i>Helicoverpa armigera</i> Hubner and <i>Spodoptera litura</i> Fab. to fern phytoecdysone.	<i>Journal of Entomology</i> https://doi.org/10.3923/je.2007.289.298	1812-5670 2007, 4(4), pp.289-298. IF:
20. 12	Impact of three <i>Vitex</i> spp. on biology of rice moth, <i>Corcyra cephalonica</i> Stainton in stored groundnut.	<i>Journal of Applied Zoological Researches</i>	0970-9304 2007, 18(1), pp.80-84. IF:
21. 13	The fruit fly <i>Bactrocera invadens</i> (Tephritidae: Diptera) new to India.	<i>Pestology</i>	0970-3012 2006, 30(9), pp.36-37. IF:
22. 14	Feeding behaviour of reduviid predators on meat and insect-based artificial diets.	<i>Belgian Journal of Entomology</i>	2295-0214 2006, 8, pp.55-65. IF:
23. 15	Phytoecdysone of <i>Pteridium aquilinum</i> (L) Kuhn (Dennstaedtiaceae) and its pesticidal property on two major pests.	<i>Archives of Phytopathology and Plant Protection</i> https://doi.org/10.1080/0323540040007517	1477-2906 2006, 38(2), pp.99-105. IF:1.0 (1.2)
24. 16	Biosafety of <i>Pseudomonas fluorescens</i> 1.25 WP (Sun Agro Monus) to the egg parasitoids and spider predator.	<i>Journal of Applied Zoological Researches</i>	0970-9304 2005, 16(2), pp.144-146. IF:
25. 17	A new species of <i>Aprostocetus</i> Westwood (Hymenoptera: Eulophidae) parasitic on <i>Melanagromyza obtusa</i> (Malloch)(Diptera:	<i>Entomon</i> https://doi.org/10.18311/jbc/2017/15566	0377-9335 2005, 30(3), pp.221-225. IF: 0.2 (0.30)

	Agromyzidae) from India.		
26. 18	Side effects of selected biopesticides on reduviid predator <i>Rhynocoris marginatus</i> Fab.	<i>Entomologia Croatia</i> https://hrcak.srce.hr/283846	1330-6200 2003, 7, pp.43-50. IF:
27. 19	Life Table Characteristics of <i>Rhynocoris fuscipes</i> Fabricius in Relation to Sex Ratios.	<i>Ecology Environment and Conservation</i>	0971-765X 2003, 9, pp.115-119. IF: 0.45
28. 20	Evaluation of Bio-pesticidal of property of <i>Christella parasitica</i> and <i>Ipomoea cornea</i> on <i>Achaea janata</i> Linn.	<i>Journal of Applied Zoological Research</i>	0970-9304 2003., 14(1), pp.48-50. IF:
29. 21	Biological control potential of a reduviid predator, <i>Rhynocoris fuscipes</i> (Fab.) on three groundnut pests.	<i>Asian Journal of Microbiology, Biotechnology and Environmental Science.</i>	2002, 4 (4): 451 – 455.

PUBLICATIONS: OTHER INDEXED JOURNALS ()

S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg.No
1	Predatory behaviour of <i>Rhynocorismarginatus</i> Fab. on <i>Papiliopolytespolytes</i> caterpillar, a serious pest of citrus.	<i>Insect Environment</i>	2002, 8 (1): 22-23.
2	Predatory behaviour of <i>Rhynocorismarginatus</i> on <i>Daniuschrysippus</i> Linn.	<i>Insect Environment.</i>	2003, 8 (4): 146.

NCBI GenBank submissions

Mitochondrial Genome

1. [Ectomocorishorridus mitochondrion, complete genome - Nucleotide - NCBI \(nih.gov\)](#)

LOCUS OP270692 16661 bp DNA circular INV 01-MAR-2023
 DEFINITION Ectomocorishorridus mitochondrion, complete genome.
 ACCESSION OP270692

VERSION	OP270692.1
KEYWORDS	.
SOURCE	mitochondrion Ectomocorishorridus
ORGANISM	Ectomocorishorridus
Eukaryota; Metazoa; Ecdysozoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Paraneoptera; Hemiptera; Heteroptera; Panheteroptera; Cimicomorpha; Reduviidae; Peiratinae; Ectomocoris.	
REFERENCE	1 (bases 1 to 16661)
AUTHORS	John, J.S., Selvaraj, P., Ambrose, D.P., AbdulAzeez, S. and Borgio, J.F.
TITLE	Direct Submission
JOURNAL	Submitted (19-AUG-2022) Zoology, St. Xavier's College (Autonomous), Palayamkottai, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India, 21, North Highground Road, Palayamkottai, Tirunelveli, Tamil Nadu 627002, India
2. Rhynocorismarginatus mitochondrion, complete genome - Nucleotide - NCBI (nih.gov)	
LOCUS	OP529843 15609 bp DNA circular INV 12-DEC-2022
DEFINITION	Rhynocorismarginatus mitochondrion, complete genome.
ACCESSION	OP529843
VERSION	OP529843.1
KEYWORDS	.
SOURCE	mitochondrion Rhynocorismarginatus
ORGANISM	Rhynocorismarginatus
Eukaryota; Metazoa; Ecdysozoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Paraneoptera; Hemiptera; Heteroptera; Panheteroptera; Cimicomorpha; Reduviidae; Harpactorinae; Harpactorini; Rhynocoris.	
REFERENCE	1 (bases 1 to 15609)
AUTHORS	John, J.S., Selvaraj, P., AbdulAzeez, S. and Borgio, J.F.
TITLE	Direct Submission
JOURNAL	Submitted (25-SEP-2022) Zoology, St. Xavier's College (Autonomous), Palayamkottai, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India, 21, North Highground Road, Palayamkottai, Tirunelveli, Tamil Nadu 627002, India
3. Acanthaspispedestris mitochondrion, complete genome - Nucleotide - NCBI (nih.gov)	
LOCUS	OP545807 15378 bp DNA circular INV 12-DEC-2022
DEFINITION	Acanthaspispedestris mitochondrion, complete genome.
ACCESSION	OP545807
VERSION	OP545807.1
KEYWORDS	.
SOURCE	mitochondrion Acanthaspispedestris
ORGANISM	Acanthaspispedestris
Eukaryota; Metazoa; Ecdysozoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Paraneoptera; Hemiptera; Heteroptera; Panheteroptera; Cimicomorpha; Reduviidae; Reduviinae; Acanthaspis.	
REFERENCE	1 (bases 1 to 15378)
AUTHORS	Selvaraj, P., John, J.S., AbdulAzeez, S. and Borgio, J.F.
TITLE	Direct Submission
JOURNAL	Submitted (27-SEP-2022) Zoology, St. Xavier's College (Autonomous), Palayamkottai, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India, 21, North Highground Road, Palayamkottai, Tirunelveli, Tamil Nadu 627002, India
4. Polididusarmatissimus mitochondrion, complete genome - Nucleotide - NCBI (nih.gov)	

LOCUS	OP562891	15624 bp	DNA	circular INV 12-DEC-2022
DEFINITION	Polididusarmatissimus mitochondrion, complete genome.			
ACCESSION	OP562891			
VERSION	OP562891.1			
KEYWORDS	.			
SOURCE	mitochondrion Polididusarmatissimus			
ORGANISM	Polididusarmatissimus			
Eukaryota; Metazoa; Ecdysozoa; Arthropoda; Hexapoda; Insecta;				
Pterygota; Neoptera; Paraneoptera; Hemiptera; Heteroptera;				
Panheteroptera; Cimicomorpha; Reduviidae; Harpactorinae;				
Harpactorini; Polididus.				
REFERENCE	1 (bases 1 to 15624)			
AUTHORS	John,J.S., Selvaraj,P., AbdulAzeez,S. and Borgio,J.F.			
TITLE	Direct Submission			
JOURNAL	Submitted (30-SEP-2022) Zoology, St. Xavier's College			
(Autonomous),Palayamkottai, ManonmaniamSundaranar University,				
Tirunelveli,				
Tamil Nadu, India, 21, North Highground Road, Palayamkottai,				
Tirunelveli, Tamil Nadu 627002, India				

5. [Catamiarusbrevipennis mitochondrion, complete genome - Nucleotide - NCBI \(nih.gov\)](#)

LOCUS	OP572414	15909 bp	DNA	circular INV 12-DEC-2022
DEFINITION	Catamiarusbrevipennis mitochondrion, complete genome.			
ACCESSION	OP572414			
VERSION	OP572414.1			
KEYWORDS	.			
SOURCE	mitochondrion Catamiarusbrevipennis			
ORGANISM	Catamiarusbrevipennis			
Eukaryota; Metazoa; Ecdysozoa; Arthropoda; Hexapoda; Insecta;				
Pterygota; Neoptera; Paraneoptera; Hemiptera; Heteroptera;				
Panheteroptera; Cimicomorpha; Reduviidae; Peiratinae; Catamiarus.				
REFERENCE	1 (bases 1 to 15909)			
AUTHORS	John,J.S., Selvaraj,P., AbdulAzeez,S. and Borgio,J.F.			
TITLE	Direct Submission			
JOURNAL	Submitted (30-SEP-2022) Zoology, St. Xavier's College			
(Autonomous),Palayamkottai, ManonmaniamSundaranar University,				
Tirunelveli,				
Tamil Nadu, India, 21, North Highground Road, Palayamkottai,				
Tirunelveli, Tamil Nadu 627002, India				

Fungal ITS

Beauveriabassiana isolate ERUBB001 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

LOCUS OR190062 689 bp DNA linear PLN 12-JAN-2023

DEFINITION Beauveriabassiana isolate ERUBB001 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.

ACCESSION OR190062

VERSION OR190062.1

KEYWORDS .

SOURCE Beauveriabassiana

ORGANISM [Beauveriabassiana](#)

Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Cordycipitaceae; Beauveria.

REFERENCE 1 (bases 1 to 689)

AUTHORS Velankanny, M., Selvaraj, P., John, J.S., AbdulAzeez, S. and Borgio, J.F.

TITLE Direct Submission

JOURNAL Submitted (06-JAN-2023) Zoology, St.Xavier's College (Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu 627002, India

Beauveriabassiana isolate ERUBB002 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

LOCUS OR150421 535 bp DNA linear PLN 26-JUN-2023

DEFINITION Beauveriabassiana isolate ERUBB002 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.

ACCESSION OR150421

VERSION OR150421.1

KEYWORDS .

SOURCE Beauveriabassiana

ORGANISM [Beauveriabassiana](#)

Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Cordycipitaceae; Beauveria.

REFERENCE 1 (bases 1 to 535)

AUTHORS Velankanny, M., Selvaraj, P., John, J.S., AbdulAzeez, S. and Borgio, J.F.

TITLE Direct Submission

JOURNAL Submitted (21-JUN-2023) Zoology, St.Xavier's College (Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu 627002, India

Beauveriabassiana isolate ERUBB003 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

LOCUS OR150422 522 bp DNA linear PLN 26-JUN-2023

DEFINITION Beauveriabassiana isolate ERUBB003 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.

ACCESSION OR150422

VERSION OR150422.1

KEYWORDS .

SOURCE Beauveriabassiana

ORGANISM [Beauveriabassiana](#); Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Cordycipitaceae; Beauveria.

REFERENCE 1 (bases 1 to 522)

AUTHORS Velankanny, M., Selvaraj, P., John, J.S., AbdulAzeez, S. and Borgio, J.F.

TITLE Direct Submission

JOURNAL Submitted (21-JUN-2023) Zoology, St.Xavier's College (Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu 627002, India

Metarhiziumanisopliae isolate ERUMA004 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

LOCUS OQ186755 598 bp DNA linear PLN 12-JAN-2023

DEFINITION Metarhiziumanisopliae isolate ERUMA004 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.

ACCESSION OQ186755

VERSION OQ186755.1

KEYWORDS .

SOURCE Metarhiziumanisopliae

ORGANISM [Metarhiziumanisopliae](#)
Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Clavicipitaceae; Metarhizium.

REFERENCE 1 (bases 1 to 598)

AUTHORS Velankanny,M., Selvaraj,P., John,J.S., AbdulAzeez,S. and Borgio,J.F.

TITLE Direct Submission

JOURNAL Submitted (06-JAN-2023) Zoology, St.Xavier's College (Autonomous),Palayamkottai, Tirunelveli, Tamil Nadu 627002, India

Metarhiziumanisopliae isolate ERUMA003 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

LOCUS OQ186753 636 bp DNA linear PLN 12-JAN-2023

DEFINITION Metarhiziumanisopliae isolate ERUMA003 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,partialsequence

ACCESSION OQ186753

VERSION OQ186753.1

KEYWORDS .

SOURCE Metarhiziumanisopliae

ORGANISM [Metarhiziumanisopliae](#); Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina;Sordariomycetes; Hypocreomycetidae; Hypocreales; Clavicipitaceae;Metarhizium.

REFERENCE 1 (bases 1 to 636)

AUTHORS Velankanny,M., Selvaraj,P., John,J.S., AbdulAzeez,S. and Borgio,J.F.

TITLE Direct Submission

JOURNAL Submitted (06-JAN-2023) Zoology, St.Xavier's College (Autonomous),Palayamkottai, Tirunelveli, Tamil Nadu 627002, India

Metarhiziumanisopliae isolate ERUMA002 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

LOCUS OQ186751 636 bp DNA linear PLN 12-JAN-2023

DEFINITION Metarhiziumanisopliae isolate ERUMA002 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

ACCESSION OQ186751

VERSION OQ186751.1

KEYWORDS .

SOURCE Metarhiziumanisopliae

ORGANISM [Metarhiziumanisopliae](#)

Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Clavicipitaceae; Metarhizium.

REFERENCE 1 (bases 1 to 636)

AUTHORS Velankanny, M., Selvaraj, P., John, J.S., AbdulAzeez, S. and Borgio, J.F.

TITLE Direct Submission

JOURNAL Submitted (06-JAN-2023) Zoology, St.Xavier's College (Autonomous), Palayamkottai, Tirunelveli, Tirunelveli 627002, India

Metarhiziumanisopliae isolate ERUMA001 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

LOCUS OQ179949 636 bp DNA linear PLN 11-JAN-2023

DEFINITION Metarhiziumanisopliae isolate ERUMA001 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

ACCESSION OQ179949

VERSION OQ179949.1

KEYWORDS .

SOURCE Metarhiziumanisopliae

ORGANISM [Metarhiziumanisopliae](#)

Eukaryota; Fungi; Dikarya; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Clavicipitaceae; Metarhizium.

REFERENCE 1 (bases 1 to 636)

AUTHORS Velankanny, M., Selvaraj, P., John, J.S., AbdulAzeez, S. and Borgio, J.F.

TITLE Direct Submission

JOURNAL Submitted (05-JAN-2023) Zoology, St.Xavier's College (Autonomous), Palayamkottai, Tirunelveli, Tirunelveli 627002, India

S. No	Name of the Event	Place and Date
1	Refresher Course on “Organic Pest Control” held during Jan. 21 to Feb. 10, 2008 Title: “Biopesticides : Regulations and Registration” (Sponsored by UGC)	Department of Entomology, Faculty of Agriculture, Annamalai University , Chidambaram, Tamil Nadu, 31 st January, 2008
2	Plant Biology and Biotechnology Association seminar. Title : “Biotechnological Approaches for the management of insect pests and diseases of agricultural crops”	held at Department of Plant Biology and Biotechnology 7 th March, 2011.
3	Nonomaterial workshop. Title: Phytochemical analysis, isolation and screening (Funded by DST, Govt. of India for the College Teachers)	Crop Protection Research Centre, Dept. of Zoology, St. Xavier’s College, Palayamkottai, July, 2015.
4	Inaugural Function of the Alumni Special lecture Series. Title : “Biotechnological options for Ecofriendly pest management”	St. Jude’s College, Thuthoor, Kanyakumari District on 19 th August, 2016.
5	Association seminar held at PG Department of Physics. Title: “Spectroscopy : Principles, Types and Applications”	St. Xavier’s College, Palayamkottai on 21 st December, 2016.
6	Zoology Association Inauguration & Special lecture held at the PG Department of Zoology. Title: Biointensive insect pest management options for organic crop protection.	Nesamony Memorial Christian College, Marthandam, Kanyakumari District on 23 rd October, 2017.
7	Resource person for the INSA Entomology Refresher Course (hands-on training in Molecular techniques, Insect rearing and Phytochemical extraction, analysis and bioassay techniques) (INSA, New Delhi)	18 th to 31 st August, 2018 held at St. Xavier’s College (Autonomous), Palayamkottai
8	A resource person in the sixth Biopesticide international conference - BIOCICON 2019	Amity University campus, Raipur, Chhattisgarh

	(keynote address on “Entomoparasitoids: Prospects and challenges” in the technical session II- Natural Enemies).	
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S. No	Name of the Event	Place and Date
1	Biotechnological approaches in IPM and its impact on environment. National Seminar on “ <i>Healthy Environment for the Next Generation</i> ” (Sponsored by DST, Govt. of India)	School of Entomology and Centre For Natural Resources Management, Loyola College, Chennai, P. 95.
2	Enhancement of impact potential of <i>Trichogrammatid</i> egg parasitoids through selective mating among native strains. In Proceedings of International Conference on “ <i>Biopesticides : Emerging Trends</i> ”, November 11-13, 2005	Palampur, Himachal Pradesh, India. P: 29-31.
3	“ <i>Arthropod Biodiversity characterization, conservation and utilization: Scope for national networking in egg parasitoids</i> ”. In National Conference on Agro biodiversity, Proceedings P. 219 - 220.	National Biodiversity Authority of India, Chennai, India. 12 th – 15 th Feb., 2006
4	Biodiversity characterization, conservation and utilization of native egg parasitoids: Vision for networking in Asia-Pacific region. In International Conference on “ <i>Biodiversity of Insects : Challenging Issues in Management and Conservation</i> ”, P. 101.	30 th Jan-3 rd Feb., 2006, held at Bharathiar University, Coimbatore-641046, India.
5	Native fruit fly species composition monitoring with methyl eugenol traps: initial results in Tamil Nadu, India. In International Conference on “ <i>Biodiversity of Insects : Challenging Issues in Management and Conservation</i> ”, P. 83.	30 th Jan-3 rd Feb., 2006, held at Bharathiar University, Coimbatore-641046, India.
6	Intra-species variation in reproductive attributes: Scope for utilization and genetic enhancement in native egg parasitoid - <i>Trichogrammachilonis</i> in India. In International Conference on “ <i>Biodiversity of Insects : Challenging Issues in Management and Conservation</i> ”, P. 109.	30 th Jan-3 rd Feb., 2006, held at Bharathiar University, Coimbatore-641046, India.

7	Entomopathogenic fungi for the control of economically important whiteflies. In the “ <i>National Symposium on Biological Control of Sucking Pests in India</i> ”, (Eds.) Tandon <i>et al.</i> p. 3.	Society for Biological Control, PDBC, Bangalore, 26-27 May 2006
8	Networking approach for enhancing the impact potential of biocontrol agents: <i>Trichogramma</i> case study. In “ <i>Organic Crop Protection Technologies for Export Agri-Horticulture</i> ” Abstract Book., P.8-9.	G.S. Gill Research Institute, Guru Nanak College, Chennai- 600 042, during 21-22 November 2006
9	Consortium approach towards monitoring and management of fruit flies in Tamil Nadu, India. In “ <i>Organic Crop Protection Technologies for Export Agri-Horticulture</i> ” Abstract Book, P. 18.	G.S. Gill Research Institute, Guru Nanak College, Chennai - 600 042, during 21-22 November 2006
10	Pesticides: Present and future molecules for crop protection in India. In <i>Biopesticide International Conference (BIOCICON – 2007)</i> held at St. Xavier’s College (Autonomous) during 28-30 November, 2007.	St. Xavier’s College (Autonomous) during 28-30 November, 2007.
11	Partial purification and Characterization of phytoecdysone from <i>Crystallaparasitica</i> and screening of their pesticidal properties on lepidopteran pests. In <i>Biopesticide International Conference (BIOCICON – 2007)</i>	St. Xavier’s College (Autonomous) during 28-30 November, 2007.
12	Insect pest complex of Noni (<i>Morinda citrifolia</i> L.) in South India. National Symposium on Noni Search 2008. Proceedings of the P. 166-183.	New Delhi, October 18-19, 2008.
13	Antibacterial activity of phytoecdysone fractions and their nanoformulations of three ferns. Pteridophyte Symposia	Indian Fern Society, Pune on 2018.
14	Entomoparasites: Prospects and Challenges in Insect Pest Management. In “BIOCICON – 2019” 6 th Biopesticide International Conference	Amity University, Raipur, Chhattisgarh 6 th to 8 th March 2019.
15	Insecticidal and Antibacterial Potential of <i>Syzygium aromaticum</i> (L.) Merrill. and Perry. In “BIOCICON – 2019” 6 th Biopesticide International Conference	Amity University, Raipur, Chhattisgarh 6 th to 8 th March 2019.

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP

ATTENDED:

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
	INTERNATIONAL		
1	ENTOMOCONGRESS – 2000 (International Conference). Prospective for The New Millennium	UGC	Trivandrum, Kerala, India on 5-8 November 2000.
2	BIOCICON – 2007” 1 st Biopesticide International Conference held at Co-chaired the scientific session “Biomolecules of plants, Microbes and pest management”.	DST, DBT	St. Xavier’s College (Autonomous) during 28-30 November, 2007.
3	“BIOCICON – 2009” 2 nd Biopesticide International Conference, (Member of the Organizing Committee).	DST, DBT	St. Xavier’s College (Autonomous) during 26-28, November, 2009
4	International symposium on “Insect Pest Management”	UGC	Entomology Research Unit, St. Xavier’s College (Autonomous) during 23-25, February, 2011.
5	“BIOCICON – 2011” 3 rd Biopesticide International Conference, (Member of the Organizing Committee and Co-chaired the technical session - Botanicals).	DST, DBT	St. Xavier’s College (Autonomous) during 28-30, November, 2011
6	“BIOCICON – 2013” 4 th Biopesticide International Conference (Member of the Organizing Committee and Co-chaired the technical session - Botanicals).	DST, DBT	St. Xavier’s College (Autonomous) during 28-30, November, 2013
7	“BIOCICON – 2019” 6 th Biopesticide International Conference, (Keynote speaker and Co-Chair person) (Member of the Organizing Committee and Co-chaired the technical session - Botanicals).	DST, DBT	Amity University, Noida

	NATIONAL		
8	National Seminar on “Healthy environment for the next generation”	DST, DBT	2-4 th Dec. 2004, organized by SECNARM, Loyola College Chennai
9	National Seminar on “Recent Trends in Applied Zoological Researches Towards Food and Nutritional Security and their Impact on Environment : Challenges Ahead” VIII AZRA Conference	UGC, DST, DBT	Bhubaneshwar during 14-16 th Feb. 2005.
10	National Seminar on “Technology and Management of Bio-resources”	UGC	St. Xavier’s College, Palayamkottai, Tamilnadu, India during 21 st – 22 nd March 2005.
11	National Symposium on “Marine Plants, Their Chemistry and Utilization”	DST	22 nd – 25 th June 2005, Seaweed Research and Utilization Association, marine Fisheries, Mandapam and SuganthiDevadasan Marine Research Institute, Tuticorine, Tamil Nadu, India.
12	National Symposium on “Recent Advances In Integrated Management of Brinjal shoot and Fruit Borer”	IIVR	Indian Institute of Vegetable Research (IIVR), Varanasi, Uttar Pradesh, India during 3-4 th October 2005.
13	National Seminar on “Biotechnological Management of Nematode Pests and Scope of Entomopathogenic Nematodes”(Member of the Organizing Committee).	DST	Sun Agro Biotech research Centre, Chennai, India during 21 – 22, November 2005
14	Seminar on Good Laboratory Practice for GLP Certification	DST, Government of India	10 th February 2006. Confederation of Indian Industry in Association with National GLP Compliance Monitoring Authority, DST
15	National seminar on “Organic Crop Protection Technologies for Export Agri-Horticulture” (Member of the Organizing	DST	Sun Agro Biotech research Centre and G.S. Gill Research Institute, Guru Nanak College, Chennai,

	Committee)		India during 21 – 22, November 2006
16	National seminar on Environmental Toxicology “ENTOX 2009”(Treasurer and Member of the Organizing Committee).	UGC	St. Xavier’s College (Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu during 26-27, February
17	National seminar on “Biodiversity: A Fragile Balance”(Co-Organizing Secretary).	DST	St. Xavier’s College (Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu during 25-26 th , Feb.2013,
18	Recent Trends in Endocrinology (Member of the Organizing Committee).		St. Xavier’s College (Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu during 24-25, Feb.2014,
19	National seminar on Biodiversity and conservation: Present status .(Member of the Organizing Committee).		St. Xavier’s College (Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu during 12-13 th Feb.2015
20	ZOOCONG 18. (Member of the Organizing Committee).	UGC	St. Xavier’s College (Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu during 10-15 th January, 2018
21	INSA Entomology Refresher Course (Resource person and Guest lecture).	INSA	St. Xavier’s College (Autonomous), Palayamkottai, 18 th to 31 st August, 2018
22	Sixth Biopesticide International Conference - BIOCICON 2019 (Keynote speaker and Co-Chair person)	DST, DBT	Amity University campus, Raipur, Chhattisgarh 6-8 th March, 2019

COUNTRIES VISITED

Kenya	UAE	Sri Lanka	
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**EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES
ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)**

Contact Staff for STAND UG () and PG (2013-14, 2017-2018)
Department Staff-in-charge for the Laboratory Instrumentation Facility (2012-2020)
Coordinator for Enviro Club (2012-1015)
Member of Magazine Committee (2013-2013)
Handled NET/SET coaching classes (2014-15)
Department Staff-in-charge for Fine Arts (INDECO) (2012-2018)
Department Staff-in-charge for Sports (2012-2013, 2015-2016)
Member of Public Relations office (2013-2015)
Staff Member of Foundation Course (2013-2014)
Convenor for Magis Club (2013-2018)
Department Staff-in-charge for Star College Programme (2014-2017)
Department Staff-in-charge for College Magazine (2014-2016)
Staff-in-charge for Endowment Lecture (2017-2018)
Staff-in-charge for Zoology Association
Staff-in-charge for study tour and field visits
Staff-in-charge for ZOOFEST

Date: 22.07.2025

Name: Dr. P. Selvaraj