



Dr. (Mrs.) P. GERALDINE
UGC-BSR Faculty Fellow

Contact

Address : Department of Animal Science
Bharathidasan University
Tiruchirappalli – 620 024
Tamil Nadu, INDIA

Employee Number : AS0516002

Date of Birth : 18-11-1955

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Academic Qualifications: M.A./M.Sc./M.Phil./Ph.D./

1983

Doctor of Philosophy in Endocrinology

University of Madras, Chennai.

1979

Master of Philosophy in Zoology

University of Madras, Chennai.

1978

Master of Science in Zoology

Holy cross college, Tiruchirappalli.

Teaching Experience: 36 Years

Institution	Designation	Period		Total Period
		From	To	
Government Arts College	Assistant Professor	03.08.1982	02.01.1990	8 years
Bharathidasan University, Tiruchirappalli	Lecturer	03.01.1990	06.08.1995	5 years
Bharathidasan University, Tiruchirappalli	Reader	07.08.1995	01.03.2005	10 years
Bharathidasan University, Tiruchirappalli	Professor	02.03.2005	30.06.2016	11 years
Bharathidasan University, Tiruchirappalli	UGC-BSR Faculty Fellow	01.07.2016	Till date	2 year
Total Experience				36 years

Research Experience: 41 Years

Additional Responsibilities

1. Served as a Deputy Warden of the Women's Hostel, Bharathidasan University, Tiruchirappalli from 1997 to 1998.
2. Nominated as Co-Ordinator for UGC-SAP-DRS-I of Department of Animal Science, Bharathidasan University, Tiruchirappalli from 2008 to 2013.
3. Appointed as Head Department of Animal Science, Bharathidasan University, Tiruchirappalli, from 2011 till 2013.
4. Nominated as Chair, School of Life Sciences, Bharathidasan University, Tiruchirappalli from 2014 to 2015.
5. Nominated as Co-Ordinator for UGC-SAP -DRS-II, of Department of Animal Science, Bharathidasan University, Tiruchirappalli from 2013-2016.

Areas of Research

- ❖ Oxidative stress in Cataract and age-related disorders,
- ❖ Mycopathology,
- ❖ Nanobiotechnology

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	25	02
	M.Phil.	09	-
Project	PG	42	01
	UG / Others	04	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
84	1	42	5	4

Cumulative Impact Factor (as per JCR) :	193.845
h-index :	24
i10 index :	62
Total Citations :	1424

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	MoEn & F	1993	1996	Impact of heavy metals and other toxic wastes on some physiological and bioenergetics of the prawn, <i>Macrobrachium malcolmsonii</i> in the river Cauvery.	7.82

2	UGC	1994	1997	Influence of mycotoxins on reproductive biology of rats.	2.25
3	DST	2001	2004	Heat shock protein 70 (Hsp 70) in the freshwater prawn <i>Macrobrachium malcolmsonii</i> .	16.84
4	UGC	2004	2007	Evaluation of the putative anti-oxidant effect of the <i>Mushroom Pleurotus</i> Sp. in an animal model	7.26
5	DBT	2007	2011	Evaluation of the putative mechanisms of anticataractogenic effect of Acetyl-L-carnitine	53.73
6	UGC	2009	2012	Evaluation of the anticataractogenic effect of a traditional eye medication	10.55
7	UGC	2011	2012	UGC-BSR One Time Grant	7.00

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC-BSR	2016	2019	Evaluation of the putative anticataractogenic potential of a nano-encapsulated ethanolic extract of <i>Tabernaemontana divaricata</i> on experimental selenite-induced cataractogenesis	15.00

Consultancy Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	-	-	-	-	-

Others : Nil

Note: Budget must be rounded to two decimal places

Patents

Nil

Distinctive Achievements / Awards

1. Awarded the Tamil Nadu Scientists Award (TANSA) for the year 2002 in the field of Environmental Sciences by the Tamilnadu State Council for Science and Technology, Government of Tamilnadu.
2. Awarded “UGC-BSR One time grant” for the year 2011-2012 by the University Grants Commission, New Delhi.
3. Awarded “UGC-BSR Faculty Fellowship” for the year 2016-2019 by the University Grants Commission, New Delhi.

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: xx

1. Organized Two days’ workshop on “**Basic Proteomic and Genomic Techniques**” held at Department of Animal Science, Bharathidasan University, Tiruchirappalli on 25th and 26th February 2015.

Events Participated

Event	Organizer / Place	Period / Duration
Refresher courses/ Training Programme	1. UGC Sponsored Refresher Course in Histochemistry and Phytochemistry (Botany) at Bharathidasan University, Tiruchirappalli.	19.1.1991 to 15.2.1991
	2. Refresher Course in Zoology, at Academic Staff College, University of Madras	23.11.1994 to 13.12.1994
	3.UGC Sponsored Refresher Course in Hormones, Communication and Behaviour (Zoology)	24.02.1997 to 23.03.1997

Conferences / Seminars / Workshops	1. Participated in Seminar on Trends in Animal Science Research at Bharathidasan University, Tiruchirappalli – 620 024, Tamil Nadu.	26 – 27 October, 1990
	2. Participated in Seminar on Recent Trends in Animal Science Research at Bharathidasan University, Tiruchirappalli – 620 024, Tamil Nadu.	21 – 22 October, 1994
	3. Participated in International Workshop Cum Seminar on Ethics in Science and Medicine at Hotel LRN Excellency, 7 Sarada College Road, Selam – 636 007	7 – 8 January, 1998
	4. Participated in Annual Symposium on Reproductive Biology and Comparative Endocrinology at Department of Endocrinology Dr.ALM PGIBMS, University of Madras, Taramani Campus, Chennai- 600 113, India.	25 – 27 January 2004
	5. Participated in CMC Winter Symposium on Cell and Molecular Biology Medicine held at Christian Medical College, Vellore, India.	30 – 31 January 2003
	6. Participated in National Symposium on Recent Trends in Environment and Biotechnology held at Department of Zoology and Biochemistry, Govt. College, Kumbakonam, Tamilnadu India.	26 – 28 July 2004
	7. Participated in National Seminar on Endocrine and Metabolic Disorders held at Department of Endocrinology Dr.ALM PGIBMS, University of Madras, Taramani Campus, Chennai- 600 113, India.	9 th March 2012
	8. Participated in Annual Meeting of the Society of Biological Chemist held at Central Institute of Medicinal and Aromatic Plants, Lucknow, India	12 – 15, November 2011
	9. Participated in Lecture Programme on Current Concepts in Biological Research held at NFMC, Bharathidasan University, Tiruchirappalli – 620 024, India	27 – 28, February 2004
	10. Participated in International Conference on Disease Management for Sustainable Fisheries held at Department of Aquatic Biology and Fisheries, university of Kerala, Trivandrum, Kerala-695 581, India	25 – 28, August, 2003

11. Participated in National Congress of Indian Association of Medical Microbiologists held at Sri Ramachandra Medical College & Research Institute, Chennai, India	21 – 23, October, 2005
12. Participated in the Molecular Diagnosis World Congress held at the South San Francisco Conference Center	29 – 30 September, 2011
13. Participated in 18 th Congress of the International Society for Human and Animal Mycology held at Berlin, Germany	11 – 15, June, 2012
14. Participated in 3 rd Trends in Medical Mycology held at Torino, Italy	28 – 31, October, 2007
15. Participated in American Society for Microbiology General 107th Meeting held at Toronto, Ontario, Canada.	21 – 25, May, 2007
16. Participated in the 7 th Annual Conference of Association of Community Ophthalmologists of India & International Assembly of Community Ophthalmologists held at K.A.P. Viswanatham Government Medical College, Tiruchirappalli, Tamil Nadu, India	21.10.2016- 23.10.2016

Overseas Exposure / Visits

May, 1994	Singapore (International Conference on Agrotechnology : Focus for the 21 st century)
June, 1995	Beijing, China (XVIII Pacific Science Congress : Population, Resources and Environment : Prospects and Initiatives)
July, 1999	Birmingham, U.K. (21st International Congress of Chemotherapy)
March, 2002	Singapore (10th International Congress on Infectious Diseases)
May, 2007	Toronto, Canada (American Society for Medical Microbiology)
October, 2007	Torino, Italy (3rd Trends in Medical Mycology)
September, 2011	San Francisco, USA(4 th Annual Molecular Diagnostics World Congress)

June, 2012

Berlin, Germany (18th Congress of the
International Society for Human and Animal
Mycology)

Membership in

Professional Bodies

1. Life Member: Indian Society of Crustacean Biology (ISCB)
2. Life Member: Society for Reproductive Biology and Comparative Endocrinology (SRBCE)
3. Life Member: The Indian Science Congress Association (ISCA)
4. Life Member: Society of Biological Chemists (India) (SBC)

Editorial Board

1. Evidence Based Complementary and Alternative medicine

Advisory Board

Advisory Board	
<u>2011</u>	Served as a Subject Expert to recognize Research Adviser in the field of Zoology for Dr.O.Sathick, Assistant Professor, Department of Zoology, Khadir Mohideen College, Adirampattinam, Thanjavur
	Served as a Subject Expert to recognize Research Adviser in the field of Zoology for Dr. A.S.Maheswari, Assistant Professor, Department of Zoology, Seethalakshmi Ramaswami College (Autonomous), Tiruchirappalli
	Served as a Subject Expert to recognize Research Adviser in the field of Zoology for Dr.Boopathy Raja, Assistant Professor, Department of Zoology, Nehru Memorial College, Puthanampatti, Musiri Taluk, Tiruchirappalli
	Served as a Subject Expert to recognize Research Adviser in the field of Zoology for Dr.K.Prabhakaran, Assistant Professor, Department of Zoology, Periyar E.V.R. College (Autonomous), Tiruchirappalli

<u>2012</u>	Served as a Advisory Committee Member , STAR College Scheme of Seethalakshmi Ramaswami college, Trichy.
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Academic Bodies (such as Board of Studies etc.)

Board of Studies	
<u>2003</u>	Department of Biochemistry and Biotechnology, St. Joseph's College (Autonomous), Tiruchirappalli
	Department of Zoology and Biochemistry, Holy Cross College (Autonomous), Tiruchirappalli
<u>2004</u>	Department of Biochemistry, St. Joseph's College (Autonomous), Tiruchirappalli
	Department of Zoology (U.G), Nehru Memorial College (Autonomous), Puthanampatti
	Department of Zoology, Nehru Memorial College (Autonomous), Puthanampatti
<u>2006</u>	Department of Zoology, Govt. Arts College, Karur
	Department of Zoology, Bishop Heper College (Autonomous). Tiruchirappalli
	Department of Zoology, Govt. Arts College for Women (Autonomous), Pudukkottai
<u>2007</u>	Department of Zoology, Bishop Heper College (Autonomous). Tiruchirappalli
	Department of Zoology (UG), Nerhu Memorial College (Autonomous), Puthanampatti
	Department of Zoology, Rajah Serfoji Govt. College (Autonomous), Thanjavur
	Department of Zoology (UG & PG)
	K.N. Govt. Arts College for Women (Autonomous), Thanjavur
	Department of Endocrinology, University of Madras
	Department of Zoology, R.S. Govt. College (Autonomous), Thanjavur
<u>2008</u>	Department of Zoology (UG/PG), Kunthavai Naachiyaar Govt. Arts College for Women (Autonoous), Thanjavur
	Department of Zoology, Government Arts College (Autonomous), Karur
	Department of Zoology, Govt. Arts College for Women (Autonomous), Pudhukkottai
	Department of Zoology, Periyar E.V.R College (Autonomous), Trichy
	Department of Zoology, Nerhu Memorial College (Autonomous), Puthanampatti

<u>2009</u>	Department of Zoology, Government Arts College (Autonomous), Karur
	Department of Substrate Bioscience, Bishop Heper College (Autonomous). Tiruchirappalli
	Nominated as a Chairman of the board of studies in Department of Zoology (PG), Bharathidasan University, Tiruchirappalli
<u>2011</u>	Department of Endocrinology, University of Madras
	Department of Zoology (PG), Bharathidasan University, Tiruchirappalli
<u>2012</u>	Department of Zoology (PG), Periyar University, Salam
<u>2013</u>	Department of Zoology (PG), Tamil Nadu State Council for Higher Education, Chennai
	Department of Biotechnology, National College (Autonomous), Tiruchirappalli
<u>2014</u>	Department of Zoology, Thiruvalluvar University, Vellore
	Department of Endocrinology, University of Madras

Resource persons in various capacities

Number of Invited / Special Lectures delivered:

S.No	Name of the programme	Organizer of the programme	Level: International / National	Topic	Date
1	Herbal Focus 2013- Medicinal Plant Research- Present Scenario	Srimad Andavan Arts and Science College, Tiruchirappalli, Tamilnadu	National	An Evaluation of Herbal Remedies for Prevention of Cataract	8 th – 9 th February, 2013
2	Therapeutic Biocompounds	Department of Biochemistry, St. Joseph's College, Tiruchirappalli, Tamilnadu	National	Deliver a special lecture over the theme related to the seminar	1 st – 2 nd March 2013
3	Refresher Courses in Life Sciences	UGC-Academic staff college, Bharathidasan University (Khajamalai Campus) Tiruchirappalli, Tamilnadu	National	Molecular mechanism in preventable blindness	05 th August, 2013

4	International seminar on Sustainable Trends In Biotechnology	Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur, Tamilnadu, India.	International	Sustainable Trends In Biotechnology	29 – 31, January, 2007
5	Deliver a special lecture for UGC-Special Assistance Program (SAP)	Annamalai University, Parangipettai, Tamilnadu, India – 608 502.	National	Stress Response and Functional Proteins	9 th October, 2006
6	Lecture on Current prospects on Stress response and Functional Proteins	Dhanalakshmi Srinivasan College of Arts and Science for Women, Perambalur, Tamilnadu, India.	National	Stress response and Functional Proteins	8 th March, 2006
7	Current Trends in Zoology	Department of Zoology, Holy Cross College, Tiruchirappalli, Tamilnadu, India.	National	Cataract: the leading cause of preventable blindness	24, November, 2008
8	Inauguration of Common Instrumentation Laboratory and Workshop on Modern Analytical Techniques	National College, Tiruchirappalli, India– 620 001.	National	Felicitated for inauguration of Common Instrumentation Laboratory and Workshop on Modern Analytical Techniques	18 – 20, February, 2013
9	UGC-Human Resource Development Centre Sponsored Refresher Course in Life Sciences	Department of Microbiology, Bharathidasan University, Tiruchirappalli-620 024	National	Refresher Course in Life Sciences	16.11.2016
10	Inauguration of	Annai Vailankanni College of Arts and	National	Felicitation	31.10.2016

	Research Programmes	Science, Thanjavur-613 007		speech	
11	Advances in Care and Management of Experimental Animals in Toxicological and Biomedical Research	Department of Zoology, Annamalai University, Annamalainagar-608 002, Tamil Nadu	National	Care and Management of Experimental Animals Biomedical Research	25.09.2017 to 26.09.2017
12	Thesis Writing: From Copper Strip to Gold Bar	Department of English, Bharathidasan University, Tiruchirappalli-620 024, Tamil Nadu	National	Results and findings and conclusions in Thesis writing	30.10.2017 to 03.11.2017
13	Refresher Course in Biosciences	UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli-620 023	National	Molecular mechanisms underlying preventable blindness	13.11.2017

Others

1. Articles published in / Magazines : -
2. Products developed : -
3. No. of PhD Thesis evaluated : 04
4. No. of PhD Public Viva Voce Examination conducted : 07
5. Sequences submitted in GenBank : 33

**Social Interests and Initiatives / Articles in News papers etc can also be included

Recent Publications

1. Muthuswamy K, Shanmugam Prema D, Krishnan V, Pitchairaj G, Subramaniam S. Differential intracellular localization of Hsp70 in the gill and heart tissue of fresh water

- prawn *Macrobrachium malcolmsonii* during thermal stress. *Mol Biol Rep.* 2018 Oct;45(5):1321-1329. **(IF-1.889)**.
2. Hsia CH, Lu WJ, Lin KH, Chou DS, Geraldine P, Jayakumar T, Chang NC, Sheu JR. Norcantharidin, a clinical used chemotherapeutic agent, acts as a powerful inhibitor by interfering with fibrinogen-integrin α (II)(b) β (3) binding in human platelets. *J Cell Mol Med.* 2018; 22(4):2142-2152. **(IF-4.302)**.
 3. Jayakumar T, Lin KC, Lu WJ, Lin CY, Pitchairaj G, Li JY, Sheu JR. Nobiletin, a citrus flavonoid, activates vasodilator-stimulated phosphoprotein in human platelets through non-cyclic nucleotide-related mechanisms. *Int J Mol Med.* 2017; 39(1):174-182. **(IF-2.784)**.
 4. Ruban VV, Archana PT, Sundararajan M, **Geraldine P**, Thomas PA. Inflammation and oxidative stress in corneal tissue in experimental keratitis due to *Fusarium solani*: Amelioration following topical therapy with voriconazole and epigallocatechin gallate. *Mycoses.* 2017. doi: 10.1111/myc.12718. [Epub ahead of print] PubMed PMID: 29064157. **(IF-2.252)**.
 5. Sundararajan M, Thomas PA, Venkadeswaran K, Jeganathan K, **Geraldine P**. Synthesis and Characterization of Chrysin-Loaded β -Cyclodextrin-Based Nanosponges to Enhance In-Vitro Solubility, Photostability, Drug Release, Antioxidant Effects and Antitumorous Efficacy (2017). *Journal of Nanoscience and Nanotechnology.* Vol. 17, 1–10. doi:10.1166/jnn.2017.13911. **(IF-1.483)**.
 6. Anbukkarasi M, Thomas PA, Sheu JR, **Geraldine P**. In vitro antioxidant and anticataractogenic potential of silver nanoparticles biosynthesized using an ethanolic extract of *Tabernaemontana divaricata* leaves. *Biomed Pharmacother.* 2017 Jul; 91:467-475. doi: 10.1016/j.biopha.2017.04.079. Epub 2017 May 4. PubMed PMID: 28477463. **(IF-2.759)**.
 7. Sundararajan M, Thomas PA, Babyshalini K, **Geraldine P**. Identification of phytoconstituents and in-vitro evaluation of the putative anticataractogenic effect of an ethanolic root extract of *Leucas aspera*. *Biomedicine and Pharmacotherapy.* 2017 Jan; 85:87-101. doi: 10.1016/j.biopha.2016.11.126. **(IF-2.759)**.
 8. Lee TY, Chang CC, Lu WJ, Yen TL, Lin KH, **Geraldine P**, Li JY, Sheu JR. Honokiol as a specific collagen receptor glycoprotein VI antagonist on human platelets: Functional ex vivo and in vivo studies. *Scientific Report.* 2017 Jan 5; 7:40002. doi: 10.1038/srep40002. **(IF-4.259)**.

9. Jayakumar T, Yang CH, **Geraldine P**, Yen TL, Sheu JR. The pharmacodynamics of antiplatelet compounds in thrombosis treatment. *Expert Opin Drug Metab Toxicol*. 2016 Jun; 12(6):615-32. **(IF-3.027)**.
10. Venkadeswaran K, Thomas PA, **Geraldine P**. An experimental evaluation of the anti-atherogenic potential of the plant, Piper betle, and its active constituent, eugenol, in rats fed an atherogenic diet. *Biomedicine and Pharmacotherapy*. 2016 May; 80:276-88. **(IF-2.759)**.
11. Sundararajan M, Thomas PA, Teresa PA, Anbukkarasi M, **Geraldine P**. Regulatory effect of chrysin on expression of lenticular calcium transporters, calpains, and apoptotic-cascade components in selenite-induced cataract. *Molecular Vision*. 2016 Apr 30; 22:401-23. **(IF-2.057)**.
12. Yen TL, Wu MP, Chung CL, Yang WB, Jayakumar T, **Geraldine P**, Chou CM, Chang CY, Lu WJ, Sheu JR. Novel synthetic benzimidazole-derived oligosaccharide, M3BIM, prevents ex vivo platelet aggregation and in vivo thromboembolism. *J Biomed Sci*. 2016 Feb 17;23:26. doi: 10.1186/s12929-016-0245-4. PubMed PMID: 26887315; PubMed Central PMCID: PMC4756413. **(IF-2.799)**.
13. Wei JH, Chang NC, Chen SP, **Geraldine P**, Jayakumar T, Fong TH. Comparative decline of the protein profiles of nebulin in response to denervation in skeletal muscle. *Biochem Biophys Res Commun*. 2015 Oct 9; 466(1):95-102. doi: 10.1016/j.bbrc.2015.08.114. Epub 2015 Aug 29. PubMed PMID: 26325472. **(IF-2.466)**.
14. Lu WJ, Lin KC, Liu CP, Lin CY, Wu HC, Chou DS, **Geraldine P**, Huang SY, Hsieh CY, Sheu JR. Prevention of arterial thrombosis by nobiletin: in vitro and in vivo studies. *J Nutr Biochem*. 2016 Feb; 28:1-8. doi: 10.1016/j.jnutbio.2015.09.024. Epub 2015 Oct 17. PubMed PMID: 26878777. **(IF-4.518)**.
15. Muralidharan AR, Selvaraj C, Singh SK, Sheu JR, Thomas PA and **Geraldine P**. (2015). Structure-Based Virtual Screening and Biological Evaluation of a Calpain Inhibitor for Prevention of Selenite-Induced Cataractogenesis in an in Vitro System. *Journal of Chemical Information and Modeling*. 24; 55(8):1686-97. **(IF-3.76)**.
16. Sheu JR, **Geraldine P**, Yen MH. Bioactives and Traditional Herbal Medicine for the Treatment of Cardiovascular/Cerebrovascular Diseases 2015. *Evid Based Complement Alternat Med*. 2015;2015:320545. doi: 10.1155/2015/320545. Epub 2015 Aug 26. PubMed PMID: 26379742; PubMed Central PMCID: PMC4563076. **(IF-1.74)**.

17. Chang Y, Hsu WH, Lu WJ, Jayakumar T, Liao JC, Lin MJ, Wang SH, **Geraldine P**, Lin KH and Sheu JR. Inhibitory mechanisms of CME-1, a Novel Polysaccharide from the Mycelia of *Cordyceps sinensis*, in Platelet activation. *Curr Pharm Biotechnol.*2015; 16(5):451-61. **(IF-2.55)**
18. Ruban VV, **Geraldine P**, Kalamurthy J, Jesudasan CA and Thomas PA. (2015). Keratitis due to *Fusarium Langsethiae*: Clinical profile, Molecular Identification and Susceptibility to Antifungals. *Mycopathologia.*179(5-6):453-8. **(IF-1.545).**