

RESUME



Name: Dr. Y. Alex
Designation: Assistant Professor
Department: Zoology
Address: Jesuit Residence, St. Xavier's College, Palayamkottai,
Tirunelveli-627002

PERSONAL DETAILS

Year of Birth : 1982
Qualification : M.Sc., Ph.D.
Designation : Assistant Professor
Department : Zoology
Nationality : Indian
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ACADEMIC QUALIFICATIONS

Degree	Specialization	College	University	Year of Passing
B.Sc.	Zoology	Loyola College	Madras University	2006
M.Sc.	Zoology	Loyola College	Madras University	2008

Ph.D.	Zoology	Loyola College	Madras University	2025
ACADEMIC IDENTITY				
*VIDWAN ID		631810		
*ORCID ID		0000-0002-5636-0115		
*SCOPUS ID		57945563300		
*RESEARCHER ID/ PUBLONS ID		NVM-1579-2025		
GOOGLE SCHOLAR LINK		rHiLmxAAAAAJ		

TEACHING EXPERIENCE	
Date of Appointment	16.06.2025
Date of Retirement	31.05. 2042
Teaching Experience	UG-3 Yrs
	PG 1- Yr
	M.Phil.
Research	Guided M Phil: Guided Ph D: Guiding Ph D Scholar:

COURSES/CLASSES TAUGHT	NAME OF THE INSTITUTIONS	DURATION		Years
		From	To	
B.Sc. Zoology (Animal Physiology, Storage and Process in animal science, Basic Entomology)	University of Bamyan	2010	2012	2
B.Sc. Zoology (Basic Entomology, Immunology and Microbiology)	St. Xavier's College	2024	2025	1
M.Sc. Zoology (Comparative	St. Xavier's College	2024	2025	1

anatomy of Chordates, Economic Entomology)				
B.Sc. & M.Sc. Zoology (Cell Biology, Invertebrate, Genetics, Comparative Anatomy of Chordates)	St. Xavier's College	2025	Till date	

AWARDS RECEIVED

1.	Young Scientist Award , 2008, Loyola College , Chennai,
2.	
3.	
4.	
5.	

ADMINISTRATIVE EXPERIENCE

S. No	DESIGNATION	INSTITUTIONS	YEAR
	NSS Coordinator	St. Xavier's College	2024-2025
	Deputy Director	Xavier Hostel, St. Xavier's College	2024-2025
	Director	Xavier Academy, St. Xavier's College	2025-
	Director	MAX Forum, St. Xavier's College	2025-
	Director	Campus Ministry & Magis club St. Xavier's College	2025-
	Co-ordinator	Mother Theresa & Britto Hostels, St. Xavier's College	2025-
	Co-ordinator	Province Apostolic Preferences (PAP) for college, St. Xavier's College	2025-

MEMBERSHIP

S. No	Designation	Particulars
1.		
2.		

3.		
4.		
5.		

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (UGC / HRDC / TLC-PMMNMT ONLY)			
S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Two Week Faculty Development Programme Disciplinary Refresher Course (Zoology)	Teaching Learning Centre Ramanujan College (University of Delhi)	Online: Loyola College, Chennai. 15/12/2021-29/12/2021

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME UNDERGONE (SXC & Others)			
S. No	Name of the Training	Name of the Sponsoring Agency	Place and Date
1	Orientation programme for Teachers	St. Xavier's College	St. Xavier's College (Autonomous) Palayamkottai, 11.06.2025 to 14.06.2025
2	Orientation programme for Newly recruited Teachers	Higher Education, Jesuit Madurai Province	Sacred Heart College, Shenbaganur, Kodaikannal, 03.06.2025 to 07.06.2025
3			
4			
5			

DETAILS OF RESEARCH WORK		
Research Stages	Title of the Thesis	University where the work was carried out
Ph.D Zoology	<i>In vitro</i> and <i>in silico</i> investigations on the insecticidal and anti-tubercular properties of <i>Sphaeranthus indicus</i> against <i>Aedes aegypti</i> , <i>Culex quinquefasciatus</i> , <i>Spodoptera litura</i> and <i>Mycobacterium tuberculosis</i>	Loyola College, Chennai University of Madras

	H ₃₇ Rv and MDR strains	
M.Sc Zoology	Extraction of biosurfactant from <i>pseudomonas aeruginosa</i> inhabiting oil spilled soils	Loyola College, Chennai University of Madras

AREAS OF RESEARCH

General and Applied Zoology

Photochemistry

Ecology

Entomology

RESEARCH PROJECTS CARRIED OUT

S. No	Title of the Project (Minor)	Name of the Funding Agency & Amount	Duration

PUBLICATIONS

BOOKS	BOOK CHAPTERS	SCOPUS	WEB OF SCIENCE	UGC LISTED
	6	3	29	
OTHER INDEXED	AS A RESOURCE PERSON	PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL SEMINARS	WEBINARS, SEMINARS, WORKSHOPS ATTENDED	
7				

PUBLICATIONS: BOOKS ()

S. No	Title of the Book	Publication	Year

BOOK CHAPTERS ()			
S. No	Title of the Paper	Name of the Book	ISSN No., Pg.No
1	Millets in Africa	The power of millets: A promise for a healthier world	ISBN: 978-81-962929-0-4. 2023 Page 91-104
2	Millets as a sustainable crop: Environmental benefits and impact on soil health	The power of millets: A promise for a healthier world	ISBN: 978-81-962929-0-4. 2023 Page 111-122
3	Vaccination strategies for mosquito-borne diseases: From challenges to promise.	New vistas in biological sciences (Vol. 1)	ISBN 978-93-6233-893-8 2024 Page 33-46
4	Vector control: A key strategy to prevent mosquito-borne diseases	New vistas in biological sciences (Vol. 1)	ISBN 978-93-6233-893-8 2024 Page 19-30
5	Phytochemicals: A Sustainable and Eco-Friendly Approach to Mosquito Control	Emerging Trends in Zoology (Vol. 1)	ISBN 978-93-5834-673-2 2024 Page 19-36
6	Repellents: A Weapon against Mosquito-Borne Diseases	Emerging Trends in Zoology (Vol. 1)	ISBN 978-93-5834-673-2 2024 Page 01-17

PUBLICATIONS: SCOPUS INDEXED JOURNALS (3) WEB OF SCIENCE (29)			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No
1	Mosquito larvicidal, pupicidal and ovidical effects of the different extracts of the leaves of <i>Peltophorum pterocarpum</i> against <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i>	Future Journal of Pharmaceutical Sciences	ISSN: 2314-7253 (electronic) 9 (32) 2023 IF: 3.4
2	Extraction of biosurfactant	Future Journal of •	ISSN: 2314-7253 (electronic)

	from <i>Pseudomonas aeruginosa</i> inhabiting oil-spilled soils	Pharmaceutical Sciences	9(1) 2023 IF: 3.4
3	Mosquito larvicidal, pupicidal and ovicidal effects of the extracts of <i>Peltophorum pterocarpum</i> flowers on <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i>	Veterinary Parasitology: Regional Studies and Reports	Online ISSN: 2405-9390 2024 46, 100929 IF: 1.4
4	Evaluating the effectiveness of <i>Pisonia alba</i> leaf extracts in managing <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> populations via larvicidal, pupicidal, and ovicidal actions	Acta Parasitologica	Electronic ISSN 1896-1851 Print ISSN 1230-2821 2024 69(8), 369-372 IF 1.5
5	Assessing the efficacy of <i>Melia azedarach</i> leaf extracts as a mosquito control agent against <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> .	Advances in Pharmacology and Pharmacy	ISSN: 2332-0036 (Print) ISSN: 2332-0044 (Online) 2024 12(4): 351-358
6	Exploring the bioactive potential leaves of <i>Sphaeranthus indicus</i> : Targeting immature stages of <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> mosquito vectors through bioassay-guided screening and fraction isolation	Parasitology International	Print ISSN: 1383-5769 Online ISSN: 1873-0329 2024 98, 102819 IF: 1.9
7	Bioactivity of <i>Sphaeranthus indicus</i> leaf extracts on the aquatic stages of <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> mosquitoes	Arthropod-Plant Interactions	Electronic ISSN 1872-8847 2024 IF: 1.3
8	Crude extract and effective fractions from <i>Andrographis paniculata</i> for immature <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> mosquito	Ecological Frontiers	Online ISSN: 2950-5097 2024 44(2), 396-402
9	<i>Coffea canephora</i> leaf extracts as mosquito larvicidal, pupicidal, and ovicidal activity against <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> .	National Academy of Sciences, India Section B: Biological Sciences	Electronic ISSN 2250-1746 Print ISSN 0369-8211 1600 2024
10	Bioaccumulation of heavy metals in commercial fishes	Regional Studies in Marine Science	Online ISSN: 2352-4855 74, 103512

	from Adyar estuary (<i>Mugil cephalus</i> and <i>Megalopscyprinoides</i>).		2024 IF: 2.4
11	Investigation on the mosquitocidal property of cis-13-Octadecenoic acid isolated from <i>Andrographis paniculata</i> against <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae).	Journal of Asia-Pacific Entomology	Online ISSN: 1876-7990 Print ISSN: 1226-8615 2024 27(4), 102330 IF: 1.3
12	Structural elucidation of andrographolide from <i>Andrographis paniculata</i> and its ovicidal, larvicidal and pupicidal activities against <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae)	Experimental Parasitology	Print ISSN: 0014-4894 Online ISSN: 1090-2449 2024 267, 108858 IF: 1.6
13	Isolation and identification of the active constituent β -isocostic acid from the hexane extract of the leaves of <i>Sphaeranthus indicus</i> against mosquito vectors.	Toxicon	Print ISSN: 0041-0101 Online ISSN: 1879-3150 20245 253, 108200 IF: 2.4
14	Green synthesis of silver nanoparticles using <i>Boerhavia diffusa</i> plant and the potential of its antioxidant and anticancer efficacy	Pharmacological Research - Natural Products	Online ISSN: 2950-1997 100142 (6) 2025
15	Isolation and investigation of anti-tubercular ilicic acid from <i>Sphaeranthus indicus</i> against <i>Mycobacterium tuberculosis</i> H ₃₇ Rv and MDR strains	Regulatory Toxicology and Pharmacology	Print ISSN: 0273-2300 Online ISSN: 1096-0295 158, 105800 2025 IF: 3.5
16	Impact of diabetes on CD4 expression in T lymphocytes: A comparative analysis postCovishield vaccination	Vacunas	Print ISSN: 1576-9887 Online ISSN: 1578-8857 500431 2025
17	Evaluation of larvicidal efficacy of Andrograpanin formulation against mosquito vector	Proceedings of the Indian National Science Academy	Electronic ISSN 2454-9983 Print ISSN 0370-0046 2025 IF: 2.1
18	Isolation of andrograpanin from <i>Andrographis paniculata</i> and its bioactivity against <i>Aedes aegypti</i> and	Biologia	Electronic ISSN1336-9563 2025 Print ISSN 0006-3088 IF: 1.6

	<i>Culex quinquefasciatus</i>		
19	Mosquito larvicidal efficacy of β -isocostic acid formulation against <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i>	International Journal of Tropical Insect Science	Electronic ISSN 1742-7592 2025 IF: 1.2
20	<i>In silico</i> molecular docking analysis on acetylcholinesterase (AChE) inhibition activity on <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> by β -isocostic acid	Journal of Asia-Pacific Entomology	Online ISSN: 1876-7990 Print ISSN: 1226-8615 2025, 28(3), 102433 IF: 1.3
21	Comprehensive evaluation of isolated compounds from <i>Sphaeranthus indicus</i> for pest control, investigating their larvicidal, pupicidal, ovicidal, and antifeedant activities against <i>Spodoptera litura</i>	Toxicon	Print ISSN: 0041-0101 Online ISSN: 1879-3150 2025, 264:108442 IF: 2.4
22	Evaluation of andrographolide from <i>Andrographis paniculata</i> against drug-resistant and H ₃₇ Rv strains of <i>Mycobacterium tuberculosis</i>	Folia Microbiologica	Electronic ISSN 1874-9356 Print ISSN 0015-5632 2025 IF: 3.1
23	Potential of Neoandrographolide from <i>Andrographis paniculata</i> against Tuberculosis and Drug-Resistant Strains	Chemistry Africa	Electronic ISSN 2522-5766 Print ISSN 2522-5758 2025 IF: 2.2
24	Anti-tuberculosis activity of 14-Deoxy-11,12-didehydroandrographolide from <i>Andrographis paniculata</i> against drug-sensitive and MDR <i>Mycobacterium tuberculosis</i>	Chemical Papers	Electronic ISSN 2585-7290 Print ISSN 0366-6352 2025 IF: 2.5
25	Biogenic Synthesis of Zinc Oxide Nanoparticles using <i>Artemia franciscana</i> and Toxicity Assessment in Zebrafish with Histopathological Insights.	BioNanoScience	Electronic ISSN 2191-1649 Print ISSN 2191-1630 2025 IF 3.2
26	Larvicidal and pupicidal	The Journal of •	Electronic ISSN: 2090-990X

	activities of <i>Pisonia alba</i> leaf extracts against <i>Aedes aegypti</i> supported by GC–MS analysis and molecular docking.	Basic and Applied Zoology •	2025 IF 1.1
27	Molecular characterization and antibacterial activity of colicin-producing <i>Escherichia coli</i> isolated from urinary tract infections.	Folia Microbiologica	Electronic ISSN 1874-9356 Print ISSN 0015-5632 2025 IF 3.1
28	Evaluating β -isocostic acid's toxicity to wetland predators <i>Diplonchus indicus</i> and <i>Gambusia affinis</i> for sustainable mosquito control.	Wetlands Ecology and Management	Electronic ISSN 1572-9834 Print ISSN 0923-4861 2025 IF 1.6
29	Developmental disruption and midgut histopathology induced by β -isocostic acid in <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> (Diptera: Culicidae).	Experimental Parasitology	Print ISSN: 0014-4894 Online ISSN: 1090-2449 2025 IF 1.6
30	Comparative effects of plant- and milk-based dietary enrichment on the survival, growth, and nutritional composition of <i>Artemia franciscana</i> .	Food and Humanity	Online ISSN: 2949-8244 2025 CS 1.7
31	Andrograpanin-induced growth disruption and histopathological effects on the larval midgut of <i>Aedes aegypti</i> (Linnaeus) and <i>Culex quinquefasciatus</i> (Say) (Diptera: Culicidae).	International Journal of Tropical Insect Science.	Electronic ISSN 1742-7592 2025 IF 1.2
32	Active constituent nonacosane from <i>Sphaeranthus indicus</i> (Asterales: Asteraceae) leaves as a potent larvicidal agent against <i>Aedes aegypti</i> (Diptera: Culicidae) and <i>Culex quinquefasciatus</i> (Diptera: Culicidae).	Parasitology International	Print ISSN: 1383-5769 Online ISSN: 1873-0329 2026 IF 1.9

PUBLICATIONS: UGC LISTED JOURNALS ()			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg. No

PUBLICATIONS: OTHER INDEXED JOURNALS (7)			
S. No	Title of the Paper	Name of the Journal	ISSN No., Volume, Issue, Impact factor & Pg.No
1	<i>Peltophorum pterocarpum</i> : A review of its pharmacological and ethnomedicinal properties	<i>Convergence</i>	ISSN 0972 - 6489 2022 15(1-4), 97-112
2	Exploring the potential of <i>Sphaeranthus Indicus</i> flower extracts as natural mosquito larvicides	International Journal of Mosquito Research	ISSN Number: 2348-5906 (Online) ISSN Number: 2348-7941 (Print) 2023 10(5), 07-13
3	<i>Andrographis paniculata</i> leaf extracts: A natural mosquito control agent in combating <i>Aedes Aegypti</i> and <i>Culex quinquefasciatus</i>	International Journal of Mosquito Research	ISSN Number: 2348-5906 (Online) ISSN Number: 2348-7941 (Print) 2023 10(5), 01-06
4	Investigating the insecticidal properties of <i>Alangium salviifolium</i> root extracts on <i>Aedes aegypti</i> mosquitoes	International Journal of Entomology Research	E-ISSN:2455-4758 2023 8(7), 28-32
5	A study on the toxicity of <i>Tecoma stans</i> leaf extracts against two common mosquito species: <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i>	Indian Journal of Natural Sciences	ISSN 0976 – 0997 (Print) 2023 14(79), 58901-58908
6	Toxicity of <i>Alangium salviifolium</i> Leaf Extracts against Two Strains of <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i>	Indian Journal of Natural Sciences	ISSN 0976 – 0997 (Print) 2023 14(80), 61412-61419
7	Investigating the Insecticidal Properties of <i>Alangium</i>	Biology Medicine & Natural Product	ISSN 2089-6514 (paper) -

	<i>salviifolium</i> Root Extracts on <i>Culex quinquefasciatus</i> Mosquitoes	Chemistry	ISSN 2540-9328 (online) 2023 12(2), 619-624
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AS A RESOURCE PERSON ()			
S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP PAPER PRESENTED: National () International ()			
S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	Young scientists' national conference on Environment, Health and Food "Hunger in a world of plenty"	Loyola College, Chennai & YSCEHF	Loyola College, Chennai 03.12.2007 to 04.01.2007
2	7 th National Conference on Biological Control "Larvicidal, pupicidal and ovicidal effects of the extracts of <i>Peltophorum pterocarpum</i> flowers on <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> "	Society for Biological Advancement, ICAR-National Bureau of Agricultural Insect Resources	Hebbal, Bangaluru 15.12.2022 TO 17.12.2022
3	National conference on Recent progress in Bioprospecting-derived Therapeutic products. "Mosquito larvicidal, pupicidal and ovidical effects of the different extracts of the leaves of <i>Peltophorum pterocarpum</i> against <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> "	St. Xavier's College, Palayamkottai, DBT-STAR & DST-FIST	12.01.2023 to 13.01.2023
4	International Conference on Recent Technology for the Sustainable Development of Insects, Microbes, and Health., "Toxicity of <i>Alangium salvifolium</i> leaf extracts against two strains of <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> "	Loyola College, Chennai, TANSCH, The Co Being.	Loyola College, Chennai, 09.03.2023 to 10.03.2023
5	International conference on INSECTS, MICROBES and ENVIRONMENT:	Loyola College, Chennai, TANSCH,	Loyola College, Chennai

	Interactions, impacts and innovations. “ Extracts of the potential of <i>Sphaeranthus indicus</i> flower as natural mosquito laticides”	Gautham Jewellers	28.02.2024 to 29.02.2024
6	International conference on Emerging challenges in the prevention and control of vector –borne diseases. “Eco-friendly approaches to mosquito vector management: Bioassay guided fraction of <i>Sphaeranthus indicus</i> against mosquitoes	Loyola College, Chennai, AHCF-New Delhi	09.12.2024 to 10.12.2024
7	National conference on Biodiversity Restoration: Current Trends, and Emerging Opportunities. “ Effectiveness of <i>Sphaeranthus indicus</i> leaf extracts on aquatic life stages of <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> ”	St. Xavier’s College, Palayamkottai, DBT-STAR & DST-FIST	St. Xavier’s College, Palayamkottai
8	International conference on Biodiversity & Climate change (ICBCC-2025). “ Isolation of β -isocostic acid from <i>Sphaeranthus indicus</i> leaves and its mosquitocidal activity”	St. Xavier’s College Palayalam Kottai, DBT-STAR & DST-FIST	St. Xavier’s College Palayalam Kottai 13.02.2025 to 14.02.2025

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ORGANISED:

S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	Served as the Organising Secretary of the Three-day workshop on Paving the way to a plastic-free campus: Awareness, Action & Innovation	Jesuit Madurai Province	St. Xavier’s College, Palayamkottai, March 11-13, 2025

ORIENTATION / REFRESHER COURSES / FACULTY DEVELOPMENT PROGRAMME ORGANIZED					
S. No	Department / Office	Convener / Organizing Secretary	Name of the Training	Name of the Sponsoring Agency	Place and Date

WEBMINARS/SEMINARS/ CONFERENCES / SYMPOSIA / WORKSHOP ATTENDED:			
S. No	Name of the Event	Name of the Sponsoring Agency	Place and Date
1	Training programme on Research Methodology	LISSTAR, Loyola College, Chennai	Loyola College, Chennai. 22-26 th 2021
2	National conference on “Emerging trends in Entomological research in India	ERU, TNA Foundation, Chennai	ERI, Loyola College, Chennai. 7.08.2023
3	National Conference on Nano-Biomedicine & Human stem cells	CEMS, LIFE, Loyola College	LIFE, Loyola College, Chennai, 27.10.2022
4	Online capacity building workshop on Manuscript writing and publishing	Madras Christian College, Chennai	12-16 September 2022

COUNTRIES VISITED			

EXTRA-CURRICULAR ACTIVITIES/ CO-CURRICULAR ACTIVITIES ATTENDED(NCC/NSS/YRC/SPORTS/LITERARY AND CULTURAL ACTIVITIES)
2025 – 2026 Student Training and Action for Neighbourhood Development (STAND) – Contact Staff – B.Sc. II nd Year Sstudents, Department of Zoology

Date: 23.07.2025

Name: Dr. Y. Alex