

## **Curriculum Vitae**

**Dr. Jayalakshmi Krishnan.M.Sc. M.Phil., Ph.D.,**

**[jayalakshmi@cutn.ac.in](mailto:jayalakshmi@cutn.ac.in)**

**Phone: 91-9361647605**

## **Current position**

Assistant Professor  
Department of Biotechnology  
Central University of Tamil Nadu  
Thiruvarur, Tamil Nadu ,India

**Summary  
Curriculum Vitae  
of  
Dr Jayalakshmi Krishnan**

- Working in the field of Entomology, on **Vector surveillance and insecticide resistance monitoring at Cauvery delta districts of Tamil Nadu and Lakshadweep Islands**. Also scrub typhus research in Cauvery delta region is being done under my guidance.
- **PhD from DIPAS, DRDO, Delhi 2002-2006**
- **Postdoc from Ajou University South Korea, 2006-2008**
- **Research Assistant Professor, Ajou University , South Korea, 2008-2009**
- **Assistant Professor, SRM University, Chennai, Tamil Nadu India 2011**
- **Assistant Professor, Department of Life Sciences, CUTN, Thiruvarur, Tamil Nadu , India 2012-at present**
- **Head , Department of Life Sciences, CUTN, Thiruvarur, Tamil Nadu , India 2012-2016**
- **Head, Department of Epidemiology and Public Health, CUTN, Thiruvarur, Tamil Nadu , India 2016-2020**
- **Organized various programs in vector control , including WHO expert consultation for Kala-Azar elimination in 2016**
- **Organized 13<sup>th</sup> International conference for vector borne diseases , 2017**
- **Organized various workshops , outreach activities**
- **Produced Two Ph.D** in the field of entomological surveillance and insecticide resistance
- **Have guided 22 master students** in the field of entomology
- **Have completed two projects from ICMR and TIGS** on vector surveillance at Lakshadweep islands and **two projects is currently undergoing with EPH department**
- **Signed MoU with TATA Institute of Genetics and Society for Vector Borne Diseases surveillance in Cauvery delta region**
- **Have cleared SLET exam**
- **Received 6 awards**
- **Invited as expert to NVBDCP, Govt of India , Ministry of Health and family welfare for Dengue entomological capacity building, New Delhi**
- **Citations: 994, H Index 12 and i10 index 13**

## Curriculum Vitae

**Dr Jayalakshmi Krishnan**

### Current Position

- Assistant Professor,
- Vector Biology Research Laboratory ,
- Department of Biotechnology
- Central University of Tamil Nadu , Thiruvavur, Tamil Nadu, India,
- Telephone: 919361647605 E-mail: [jayalakshmi@cutn.ac.in](mailto:jayalakshmi@cutn.ac.in), [jaikrish79@gmail.com](mailto:jaikrish79@gmail.com)

### Administrative responsibilities held

- Head , Department of Life Sciences, 2013-till July 2016
- Warden, Girls hostel, Central University of Tamil Nadu, Thiruvavur, from 2013-2019 date
- Head, Department of Epidemiology and Public Health CUTN, from 27.06.2016- 2020
- Coordinator, UGC-NET coaching cell, CUTN

### Educational Qualification

#### Educational Qualifications

- **2002-2006- PhD in Physiology**, at the Defence Institute of Physiology and Allied Sciences (DIPAS) affiliated to Bharathiar University, Coimbatore, Tamil Nadu. Thesis title: Effect of hypobaric hypoxia on spatial memory functions in rats
- **2002-2000: MPhil in Zoology (Aquatic Toxicology)**, with 68% of marks in course work, Department of Zoology, Bharathiar University, Coimbatore, Tamil Nadu, India. Project Title: Genotoxic and hematological effects of karate a pyrethroid insecticide in a freshwater fish *Catla catla*
- **1998-2000: MSc in Zoology** with 78 % marks from Department of Zoology, Bharathiar University, Coimbatore, Tamil Nadu, India,
- Project Title: Impact of Ashook a neem based pesticide on hematological profiles in *Cyprinus carpio* (var. communis)
- **1995-1998: BSc in Zoology** with 72 % marks from Vellalar College for Women, Erode, Affiliated to Bharathiar University, Coimbatore, Tamil Nadu, India
- **1993-1995: Pre Degree (Higher Secondary) Course in Pure Sciences** from Govt Boys Higher Secondary School, Kaveripatanam, Krishnagiri Dt, Tamil Nadu, India
- **1992-1993: Passed the Secondary School Govt Girls higher Secondary School**, Kaveripatanam, Krishnagiri Dt, Tamil Nadu, India

Position	University	Country/Place	year
Postdoc	Ajou University	Suwon, South Korea	2006-2009
PhD-Physiology	DRDO/DIPAS/Bharathiar University	New Delhi,India	2002-2006
M.Phil-Zoology	Bharathiyar University	Coimbatore,India	2000-2002
MSc-Zoology	Bharathiyar University	Coimbatore,India	1998-2000
BSc-Zoology	Vellalar College for WOMEN, Erode	Coimbatore,India	1995-1998

+2 Higher secondary	Government girls higher secondary school, kaveripatinam, Tamil Nadu	Krishnagiri District, India	1993-1995
10 <sup>th</sup> Standard	Government boys higher secondary school, kaveripatinam, Tamil Nadu	Krishnagiri District, India	1993

### Positions held

- **July 2016- July 2020-** Coordinator, Department of Epidemiology and Public Health, CUTN
- **April 2013-July 2016** - Assistant Professor and Head I/C, Department of Life Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, India
- **July 2012-April 2013-** Assistant Professor (On contract), Department of Life Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, India
- **July 2010-November 2010-** Five months- Assistant Professor, Genetic Engineering, SRM university, Katankulthur, Chennai, Tamil Nadu, India
- **September 2008- September 2009-** Research Assistant Professor- Department of Molecular Science and Technology, Ajou University, South Korea
- **September 2006-August 2008-** Postdoctoral fellow- Department of Molecular Science and Technology, Ajou University, South Korea

### Fellowships, Awards and Achievements

- Young Scientist Award, Advances in Modern Biology and Environment (AMBION), 2013
- Vasundara memorial award for best paper in physiology, 2005
- BU-DRDO Fellowship for Ph.D (2002-2006)
- Prof N Badmanabhan memorial award for best paper in physiology “Effect of Hypobaric hypoxia on spatial memory functions and oxidative stress markers in rats” 2003
- Marimuthu Endowment Award and Gold medal for securing first rank in M.Sc degree (2000)
- State Level Eligibility Test for Lectureship (SLET), May 2000.

### International Programmes Organised

- **Coordinator**, Expert consultation on Kala-azar vector control- 19<sup>th</sup> to 20<sup>th</sup> August 2016, funded by **World Health Organization**

### International Conference

- **Organising Secretary**, 13<sup>th</sup> Conference on Vectors and Vector Borne Diseases, 27<sup>th</sup> February 2017-1<sup>st</sup> March 2017.

### Details of ongoing/completed projects.

Sr. No.	Title of Project	Funding Organization (Govt./Private)	Role	Amount	Status
1.	Vector Surveillance at Lakshadweep Islands No. 6/9-7(1s4) t2017 -	ICMR March 2017 to September 2018	PI	25,00,000/-	Completed

	ECD -I1				
2.	Mosquito vectors of Lakshadweep islands , their insecticide status and gene flow studies	TIGS (TATA Institute of Genetics Society) June 2019 to June 2020	<b>PI</b>	31,92,200/-	Completed
3.	Prevalence of substance abuse in University/College students in four metropolitan cities of India	ICMR 16.10.2023 to 15.10.2024 (No.5/13/1/Tobacco/2022/NCD-III)	<b>PI</b>	8,05,300/-	Ongoing
4.	Quality of Life, Determinants and Perceived Social Support among Menopausal Women: A Cross Sectional Study in Three Southern States of India	ICSSR F.No.ICSSR/RPD/MJ/2023-24/G/24 15.01.2024-15.01.2026	<b>CO PI</b>	11,00,000/-	Ongoing
5.	Mosquito vaporiser testing in Dengue vectors	Ajay Biotech (Consultancy Project) March 2025 to March 2026  Ref:ABIL/R&D/24-25/01	<b>PI</b>	50,000/-	ongoing

### Publications

S No	Year	Title	Authors	Journal /Book	Impact factor
	2025	Insecticide resistance status and bar-coding of dengue vectors in three districts of Tamil Nadu, India.	Anbalagan, Rajalakshmi; Srivastava, P K; Baruah, Kalpana; Krishnan, Jayalakshmi <sup>1</sup> .	Journal of Vector Borne Diseases 62(1):p 51-59, Jan–Mar 2025.	1.6
	2025	<i>Aedes</i> -borne disease awareness in Thiruvarur District of Tamil Nadu, India	Liston F D O R, Ananya Hatibaruah, Sathya Jeevitha B, Farhat S K , Rajalakshmi Anbalagan, Neena Elezebeth Philip, <b>Jayalakshmi Krishnan,</b>	Vol. 57 No. 1 (2025): Journal of Communicable Diseases;	<b>IF 1.54.</b>

			Binduja S.		
	2025	Impact of nano-insecticides in vector borne diseases	Farhat S K, Rajalakshmi Anbalagan and Jayalakshmi Krishnan	Indian Journal of Entomology	0.2
	2024	Vector Borne Diseases: Current Trends and Public Health Perspectives	Jayalakshmi Krishnan ,Editor	Bentham Science Publishers ISBN: 978- 981-5313-66-6 eISBN: 978- 981-5313-65-9 (Online)	NA
	2024	Chitosan-An alternative drug delivery approach for neurodegenerative diseases	Mahalaxmi Iyer , Aja y Elangovan , Ramya Sennimalai , Harysh Winster Suresh Babu , Sarany a Thiruvenkataswamy , Jayalakshmi Krishna n, Mukesh Kumar Yadav, Abilas h Valsala Gopalakrishn an , Arul Narayanasa my , Balachandar Vel lingiri	Carbohydrate Polymer Technologies and Applications, Volume 7, June 2024, 100460	<b>10.7</b>
	2024 Apri l	" Drug Addiction Mechanisms in the Brain ",	Jayalakshmi Krishnan ,	Bentham Science Publishers (2024). <a href="https://doi.org/10.2174/97898152238281">https://doi.org/10.2174/97898152238281</a> <a href="https://doi.org/10.2174/97898152238281">240101</a> .	<b>Print ISBN</b> 978- 981- 5223- 83-5  <b>Online ISBN</b> 978- 981- 5223- 82-8
	2023 . Octo ber	A Novel Determination of Trehalase Accumulation with Plant Extracts Against Aedes albopictus from Thiruvarur District of Tamil Nadu	Suryanarayana R, Renjisha Venugopal T, Farhat SK, Sathya Jeevitha B, Rajalakshmi A,	XIV Annual Conference of Indian Society for Malaria & Other	XIV Annual Confere nce of Indian

			Parsanathan R, Jayalakshmi K.	Communicable Diseases (ISMOCD). 2023;7-24.	Society for Malaria & Other Communicable Diseases (ISMOCD). 2023;7-24.
	2023	Investigation of Plants Extracts as Potential Larvicidal Agents against <i>Culex quinquefasciatus</i> and <i>Anopheles stephensi</i>	Rajalakshmi, Krishnan J	J Bioremediat Biodegrad, 14: 548	16.2
	2023	Inflammatory cytokines in scrub typhus and COVID-19	Farhat SK, Srivastava PK, Baskar P, Krishnan J.	Indian J Public Health Apr 16; 67: 184.	2.2
	2023	Toll like receptors in vector borne diseases. ISBN: 978-981-5124-55-2 (Print) ISBN: 978-981-5124-54-5 (Online) Year of Publication: 2023	Jayalakshmi Krishnan	Book Bentham Publisher	ISBN:978-981-5124-55-2
	2022	Hypoxia and Cigarette Smoke-A Combined Threat to the Brain: Role of Toll-like Receptor 4 in Neuroinflammatory Changes	Jayalakshmi Krishnan, SK Farhat, Rajalakshmi Anbalagan	Journal of Communicable Diseases (E-ISSN: 2581-351X & P-ISSN: 0019-5138)	Peer revised , open access, UGC care list approved journal ,0.17
	2022	Marijuana and Its Effects in Brain	Jayalakshmi Krishnan	Asian Journal of Research and Reports in Neurology 5:2; 64-69	Peer revised , open access,

2022	Island biogeography and human practices drive ecological connectivity in mosquito species richness in Lakshadweep Archipelago	Muhammad Nihad PP, Rohini PD, Sutharshan G.,Anagha Ajith PK,Sumitha MK,Shanmugapriya, Rahul P, Sasikumar, Shaibal Dasgupta, Jayalakshmi Krishnan and Farah Ishtiaq	Nature scientific reports  12(1):8060	5.2
2021	Monitoring of Insecticide Resistance and Exploring the Presence of Virus in Field Populations of Culex gelidus at Thiruvarur District of Tamil Nadu, India.	Anbalagan R, Shukla A, Subramanian V, Srivastava PK, Krishnan J.	J Commun Dis. 2021;53(4):76-83.	Peer revised , open access, UGC care list approved journal ,0.17
2020	Preliminary Study on Underlying Biochemical Mechanism of Insecticide Resistance of <i>Aedes albopictus</i> in Thiruvarur District , Tamil Nadu, India.	Arpita Shukla, Rajalakshmi A, Vaishali Verma,b Raghavendra K., Alex Eapen, Srivastava P.K., Jayalakshmi Krishnan.	WHO Dengue Bulletin 41 (41), 129-139 2020	Peer revised , open access,
2020	Seasonal variations among dengue vector mosquitoes in rural settings of Thiruvarur district in Tamil Nadu, India.	Arpita Shukla, A Rajalakshmi, K Subash, S Jayakumar, N Arul, Pradeep Kumar Srivastava, Alex Eapen, Jayalakshmi Krishnan.	Journal of Vector Borne Diseases. 2020, 57, Issue : 1, Page : 63-70	1.6
2020	Distribution of mosquito fauna in Minicoy,Lakshadweep islands, India.	Jayalakshmi K, Rohini PD, Kaviyarasan M, Rajalakshmi A, Shukla Arpita.	Journal of entomological research.2020, 44,issue 2,211-218.	Peer revised , open access

2020	A Mechanistic Review on Medicinal Mushrooms-Derived Bioactive Compounds: Potential Mycotherapy Candidates for Alleviating Neurological Disorders	Sonu Kumar Yadav , Reshma Ir , Rajesh Jeewon , Mukesh Doble , Kevin D Hyde , Ilango Kaliappan, Ravindria n Jeyaraman , Rambabu N Reddi , Jayalakshmi Krishnan, Min Li , Siva Sundara Kumar Durairajan	.Planta Med, . 2020 Nov;86(16):1161-1175.	2.74
2020	Knowledge and attitudes about the use of emergency contraception among college students in Tamil Nadu, India.	Davis, P., Sarasveni, M., Krishnan, J. <i>et al.</i>	<i>J. Egypt. Public. Health. Assoc.</i> 95, 1 (2020). Page 1-11	1.44
2018	Prevalence of disease vectors in Lakshadweep Islands during post-monsoon season.	Krishnan J, Mathiarasan L.	J Vector Borne Dis. 2018 Jul-Sep;55(3):189-196.	1.6
2018	Could Prevalence of Human Rhinosporidiosis be Attributed to Distribution of Rhinosporidium seeberi in Natural Water Bodies?. Preprints.org; 2018. DOI: 10.20944/preprints201808.0048.v1	Kalyani S , Gowri S , Krishnan J , Vimali J , Kumar DSS , Vignesh R , Shankar EM	Preprints.org, 02 Aug 2018	
2018	Study of dengue vector breeding habitats and entomological indices in Nagapattinam district, Tamil Nadu, India	Rajalakshmi Anbalagan, Arpita Shukla, Kaviyarasan, Jayalakshmi Krishnan	Dengue Bulletin V: 40; 124-136	
2017	Cigarette smoke and related risk factors in neurological disorders: An update.	Smilin Bell Aseervatham G , Sangdun Choi , Jayalakshmi Krishnan, Ruckmani K.	Biomed Pharmacother. 2017 Jan;85:79-86.	6.5

2016	CD8+ T cells of chronic HCV infected patients express multiple negative immune check points following stimulation with HCV peptides.	Barathan M, Mohamed R, Vadivelu J, Chang LY, Vignesh R, Krishnan J, Sigamani P, Saeidi A, Ram MR, Velu V, Larsson M, Shankar EM.	Cell Immunol. 2017 Mar;313:1-9.	4.8
2016	A structural insight into the negative effects of opioids in analgesia by modulating the TLR4 signaling: An in silico approach .	CS Shah M, Anwar MA, Yesudhas D, Krishnan J.	Nature Scientific Reports 6, 39271, 2016.	5.2
2016	Metallomic Biomarkers in Cerebrospinal fluid and Serum in patients with Parkinson's disease in Indian population.	Jaya Sanyal, Shiek S. S. J. Ahmed, Hon Keung Tony Ng, Tufan Naiya, Epsita Ghosh, Tapas Kumar Banerjee, Jaya Lakshmi, Gautam Guha & Vadlamudi Raghavendra Rao.	Nature Sci Rep. 2016 Oct 18;6:35097.	5.2
2016	A systems biology and proteomics-based approach identifies SRC and VEGFA as biomarkers in risk factors mediated coronary heart disease.	Alexandar.V, Pradeep G Nayar , R. Murugesan , Shajahan S . Jayalakshmi Krishnan , and Shiek S. S. J. Ahmed.	Mol.BioSyst., 2016, 00, 1-3.	3.7
2012	Advances in Toll-like receptor signaling	Jayalakshmi Krishnan, Shaherin Basith, Sangdun Choi	Adv Sys Biol Volume 1,Pages 1-5	Peer reviewed , Open access
2012	Systems biological approaches reveal non-additive responses and multiple crosstalk mechanisms between TLR and GPCR signaling	Jayalakshmi Krishnan, Sangdun Choi	Genomics Inform, 10:3:153-166	Peer reviewed , Open access
2012	TLR4, Toll-Like Receptor 4.	Jayalakshmi Krishnan, Sangdun Choi	Encyclopedia of Signaling Molecules	Book

				Second Edition : New York: Springer ISBN 978-3-319- 67198-7 ISBN 978-3-319- 67199-4 (eBook) ISBN 978-3-319- 67200-7	
	2009	Drugs targeting Toll-like receptors	Jayalakshmi Krishnan, Gwang Lee, Sangdun Choi	Archives of pharmacal research	4.9
	2008	Gene expression profiling of light-induced retinal degeneration in phototransduction gene knockout mice	Jayalakshmi Krishnan, Jiayan Chen, Kum-Joo Shin, Jong-Ik Hwang, Sang-Uk Han, Gwang Lee, Sangdun Choi	Experimental & Molecular Medicine. Volume 40 Issue 5 Pages 495-504	12.8
	2007	Toll-like receptor signal transduction	Jayalakshmi Krishnan, Kumar Selvarajoo, Masa Tsuchiya, Gwang Lee, Sangdun Choi	Experimental & molecular medicine Volume 39 Issue 4 Pages 421-438	12.8
	2007	N-acetyl cysteine supplementation prevents impairment of spatial working memory functions in rats following exposure to hypobaric hypoxia	K Jayalakshmi, SB Singh, B Kalpana, M Sairam, S Muthuraju, G Ilavazhagan	Physiology & behaviour. Volume 92 Issue 4 Pages 643-650	3.2

2007	Acetyl-L-carnitine ameliorates hypobaric hypoxic impairment and spatial memory deficits in rats	Kalpana Barhwal, Shashi Bala Singh, Sunil Kumar Hota, K Jayalakshmi, G Ilavazhagan	Journal European journal of pharmacology Volume 570 Issue 1-3 Pages 97-107 Publisher Elsevier	4.4
2005	Neuroprotective effect of N-acetyl cysteine on hypoxia-induced oxidative stress in primary hippocampal culture	K Jayalakshmi, M Sairam, SB Singh, SK Sharma, G Ilavazhagan, PK Banerjee	Brain research: Volume: 1046 Issue: 1-2 Pages: 97-104	3.2

**PhD GUIDED /Completed: 02**

**Under Guidance : 02**

**ICMR RA: 1**

**MSc Dissertation Guided : 22**

**Question paper setter**

- Serving as question paper setting board member of Department of Zoology, Bharathiar University, Coimbatore from the year 2013 onwards
- Serving as question paper setting board member of Department of Biotechnology, St.Joseph's College Arts & Science,(Autonomous) from March 1<sup>st</sup> 2016 onwards.
- Serving as question paper setting board member of Department of Microbiology, St.Joseph's College Arts & Science,(Autonomous) from March 1<sup>st</sup> 2016 onwards.

**Conferences/Seminars/Workshops Attended/ Presented**

Regional Conferences/ Symposia Attended

1. 25th annual conference of the Indian association of biomedical scientists, Dr ALM PGIBMS, Chennai, 2004
2. National symposium on recent trends in restoration of aquatic environment and biodiversity of insects, Kongunadu arts and Sciences College, Coimbatore, 2002
3. Rabbit forming, Bharathiar university, Coimbatore, 1999
4. National conference on eco-friendly technologies for sustainable development , PSG college of arts and science, Coimbatore, 2000

5. National symposium on recent trends in restoration of aquatic environment and biodiversity of insects, Kongunadu arts and science college, Coimbatore , 2002
6. National symposium on male reproduction , Bharathiar university, Coimbatore, 2000
7. Seminar on Genetics, health and disease, Bharathiar University, Coimbatore, 2000
8. State level seminar on Environmental pollution and Bioremediation, PSGR Krishnammal Collge for Women, Coimbatore, 2001
9. Workshop on Environmental status of rivers in TamilNadu, Bharathiar University, Coimbatore,1999
10. State level one day workshop on environment, NGM College, Pollachi, 2001.
11. Workshop on Environmental Awareness on Quality Management of Irrigation water, Bharathair University, Coimbatore, 2000.
12. National symposium on Biological Control of Insects in Agriculture, Forestry, Medicine, and veterinary Science, Bharathiar University, Coimbatore,1999

#### **National Conferences/ Symposia attended**

1. 24th annual conference of Indian Association of biomedical scientists, INMAS, DRDO, Delhi, 2003
2. “Building the Brain”: An International Symposium to commemorate dedication of NBRC to the Nation (December 15 - 17, 2003), National Brain research centre

#### **International Abstracts in Conferences/Presentations**

1. Jayalakshmi Krishnan, Jong-Ik Hwang, Gwang Lee, and Sangdun Choi. **Multiligand Stimulation of TLRs Identifies that RELA, FOS and IRF1 Enhanceosome Complex is Indispensable for Gene Induction, KSMCB, Seoul, South Korea, 2008**
2. Jayalakshmi Krishnan, Gwang Lee, Sang-Uk Han, Sangdun Choi Transcriptional regulations of immune responses after the activation of different TLRs in murine Macrophage 264.7 cells, , **GSA genetic Analysis / San Diego, USA,2007**
3. Jayalakshmi Krishnan, Gwang Lee, Sang-Uk Han, Sangdun Choi. Signaling networks involved in retinal degeneration in mice. FBIT 2007 international conference.11-13<sup>th</sup> October, 2007, Ramada Plaza, **Jeju island, South Korea.**
4. Youngmin Choi, Jayalakshmi Krishnan, Sangdun Choi. CD40L and IL4 signaling cross-talk points in murine B lymphocytes. Omics to industry. The 16<sup>th</sup> Korea genome organization conference. Sep 13-14, 2007. Page no 126. **South Korea.**
5. Jayalakshmi Krishnan, Saetbyul Kim, and Sangdun Choi. TLR and non-TLR ligands induced non-additive transcriptional responses in murine RAW 264.7 cells. 19<sup>th</sup> FAOBMB Seoul conference; Federation of Asian and Oceanian Biochemists and Molecular Biologists May 27-30, 2007. Page no 428. **South Korea.**
6. Jayalakshmi Krishnan, Leah A. Santat, Mi Sook Chang, Saet Byul Kim, Jong-Ik Hwang, Joelle Zavzavadjian, Estelle Wall, Pamela Eversole-Cire, Tamara Roach, Robert Rebres, Iain D.C. Fraser, and Sang Dun Choi. Silencing the expression of G proteins by siRNAs, shRNAs, or ASO in mouse macrophage RAW 267.4 cells. **19<sup>th</sup> FAOBMB Seoul conference**; Federation of Asian and Oceanian Biochemists and Molecular Biologists May 27-30, 2007. Page no 428. **South Korea.**

### Conferences/Seminar/Workshops Sessions Chaired

- DST sponsored National Seminar on "Prospects and Challenges in Stem Cell Research" held on 12th January, 2015 at St. Joseph's College (Autonomous), Tiruchiappalli. Chairperson, Clinical Applications Of Stem Cells Session

### Talk in workshops

- Gave a talk and demonstrated on VDRL, PRL and Widel test in three days' workshop on immunological techniques, held at Department of Life Sciences on 18<sup>th</sup> March 2016.

### PhD thesis evaluated

- **Structural changes in the hippocampus associated with temporal lobe epilepsy** from Department of Anatomy, Melaka Manipal Medical College, Manipal, 19/03/2013
- **Isolation of Bioactive Compound from *Ipomoea obscura* (L.) Ker Gawl and anticancer activity by in vitro and in silico approach** from Department of Bioinformatics, Karpagam University, Coimbatore. 9.02.2016
- **Evaluating the Renoprotective Potential of Mitochondrial Quality Control Mechanisms in Diabetic Nephropathy**, NIPER, Hyderabad, India, May 24, 2021.
- **Epidemiology and molecular determination of virulence factors of mycobacterium tuberculosis in pulmonary tuberculosis**, from JSS Academy of Higher Education and Research.

### PhD Viva Voce Examiner:

- Karpagam University, Coimbatore
- Manipal University, Karnataka
- Bharathiyar University
- NIPER, Hyderabad

### Invited Lectures

#### 2015

1. Delivered a special talk on "Microbial conservation" at National level DBT sponsored workshop on "in vitro and in vivo techniques in bio resource conservation" from 06th -17th July 2015 at St Joseph's College, Trichy.
2. Invited talk on **Interaction between TLR and GPCR signalling**, St Joseph's College, Trichy. 20<sup>th</sup> August 2014, Department Association meeting."

#### 2016

3. **Group discussion** on international women's day Glass ceiling: **Does a Woman Have to Work Twice as Much to Reach a Man's Level?"** in CLC II on 14<sup>th</sup> March, 2014.
4. Invited talk in, One Day Workshop To The School Teachers Of Thiruvapur (Pedagogical Training Programme for Science Teachers) a talk on **Pedagogical Strategies In Teaching Botany & Zoology**, 19<sup>th</sup> January 2016.
5. Invited talk on " **Funding Opportunities for Women in Life Sciences**" held at Central University of Tamil Nadu, in "Two Days National Seminar on Challenges

**and Funding Opportunities for Women in Life Sciences and Economics”” on 4<sup>th</sup> February 2016.**

6. Invited talk on **“Impact of Climate Change on Mosquitos, an important vector for Infectious Diseases”**, on International Conference on Global Biodiversity, Climate Change and Sustainable Development (ICBCS-2016) on **15th to 18th October 2016** at Rajiv Gandhi University, Rono Hills, Doimukh-791112, Arunachal Pradesh.

**2017**

7. Invited talk on **Smokeless Tobacco Induced Neurological Events: An Update.** Priya Mohan MDS , Hari Lando Ph.D, Jayalakshmi Krishnan Ph.D, Shankar Esaki Muthu and Sigamani Panneer Ph.D. TEQIP II sponsored International Conference on “Trends and Innovations in Chemical and Pharmaceutical Technologies”, TICPT 2017, **Feb 2-4, 2017**

**2018**

8. Invited Talk on Block Chain Technology, at institution seminar on **Empowering Nurses – Building Technological competencies in Nursing Education & Practice –A way to success**, 23.10.2018 , held at Vinayaka Missions Nuring Colelge, Karaikal.
9. Jayalakshmi Krishnan and Mathiarasan L. Prevalence of Disease Vectors at Lakshadweep Isalnds” at International Public Health Conference held at AIMS, Kochi from 2<sup>nd</sup> and 3<sup>rd</sup> November **2018**.

**2021**

Invited delegate, on investigation of different plant extracts as potential larvicidal agents against *Culex queinquefaciatus* from Thiruvarur distrcet of tamil nadu . Dec 12-18, 5<sup>th</sup> annual meeting of international association of zoologists and 2<sup>nd</sup> international virtual seminar on recent trends in life sciences and biotechnology, Haryana

**2021**

MARINA 21 Substance/drug abuse and its effects in brain of adults and adolescents, Dr NGP arts and science college, Dec 29, 2021

**2023 February**

Presented a poster on **“Distribution of mosquito fauna in Minicoy –Lakshadweep Islands, India”**, **15<sup>th</sup> conference on vectors and vector borne diseases** , from 15<sup>th</sup> Feb 2023 to 17<sup>th</sup> Feb 2023 head at Goa university.

**2023 May**

Presented a paper on **“A novel determination of trehalase accumulation with plant extracts against *Aedes albopictus* from Thiruvarur District of Tamil Nadu”** in ISMOCD conference held at Thiruvanthapuram, Kerala from 29<sup>th</sup> may to 31<sup>st</sup> May 2023.

**2023 November**

Invited speaker “Lecture series 4 on chronological genetic update 2023-2024” held by Maharishi Dayanand University, Rohtak, Haryana on 21.11.2023 on the topic of **Gene mutation, phenocopy and inheritance pattern.**

**Training Programme attended**

### **2015**

- Five days International Training on “**Leadership & Career Development**” for Women Scientists & Technologists at IIE, Guwahati, 2nd to 6th September **2015**.

### **2016**

- 2 days training on “**Insecticide Testing Facility**” at National Institute of Malarial Research on 24<sup>th</sup> to 25<sup>th</sup> February, **2016**.

### **2017**

- 121st orientation programme for teachers , August 18th and September 14th 2017, at HRDC , Pondicherry university.

### **2018**

- University level dissemination programme on ethical guidelines for biomedical research on human participants., Department of life sciences, CUTN. **07.05.2018**.
- Faculty Development Program, held on **8<sup>th</sup> September 2018** at Central University of Tamil Nadu , Thiruvarur.

### **2020**

- Five days Faculty Development programme on “**Measures To Mitigate Climate Change**” conducted from **12th to 16th October 2020** held at Central University of Tamil Nadu, Neelakkudi, Thiruvarur, Tamil Nadu, India.

### **2021**

- Two weeks refresher course in life sciences, Sri ventateswara University, Tirupathi From 18.10.2021 to 30.10.2021

### **2022**

Attended UGC sponsored Online short term course on MOOCs and open educational resources, 5.01.22 to 11.1.2022, Bharathidasan university.

### **Resource person in the workshops in 2016**

- Gave a talk on **Research Output, Outcome and Peer Review**, Two Days Research Methodology, 1-2 Nov, 2016, Dept. of Social Works, Life Sciences and Epidemiology.
- Gave a talk on **Aedes agepyti and dengue transmission** ,in one day winter school national level workshop in dengue awareness on 11<sup>th</sup> November 2016

### **Book published**

#### **2017**

- Vectors and Vector Borne Diseases, Pathobiological insights , public health challenges, and management strategies. ISBN: 9789386432360, AP Dash, Jayalakshmi Krishna, Sigamani Panner, EM Shankar, Indranil Chattopadyaya. 2017.

#### **2020**

- National level workshop on *Aedes* borne diseases and their control, ISBN: 973-93-87360-58-7. Editors: Dr Jayalakshmi Krishnan and Dr Pradeep Kumar Srivastava.

#### **2023**

- Toll like receptors in vector borne diseases. ISBN: 978-981-5124-55-2 (Print), ISBN: 978-981-5124-54-5 (Online) , Year of Publication: 2023 .
- Drug addiction mechanisms in Brain. 2023.Bentham

### **Programme Director**

#### **2017**

- Two days programme on **Health Awareness to Kendriya Vidhayala students** from 11<sup>th</sup> -12<sup>th</sup> January 2017, at the Department of Epidemiology and Public Health, CUTN
- **Programme Director for Basic Life Support organised** by Department of Epidemiology and Public Health, CUTN
- Programme Director **Emerging and Reemerging Diseases**, Department of Epidemiology and Public Health, CUTN
- **Programme Director for the Sexually Transmitted Diseases, organised** by Department of Epidemiology and Public Health, CUTN

#### **2018**

- THREE DAY WORKSHOP on Hands-on training on Data Management & Statistical Analysis using EpiInfo <sup>TM</sup> 7, **DATE: 23 - 25 January 2018.**
- Programe director and chairperson, Know your Brain, **6<sup>th</sup> to 7<sup>th</sup> Sep 2018**
- Programe director and chairperson, Three days state level workshop for vector biology research, **14<sup>th</sup> to 16<sup>th</sup> November 2018.**
- Free eye camp with Health Centre and DEPH held on **11<sup>th</sup> and 12<sup>th</sup> September 2018 at CUTN.**
- **Co-Chairperson**, Microbes: Friend or Foe, One day awareness programme, **1.November.2018** at CLCII block, CUTN.

### **Interview Selection committee member**

- Internal selection committee member, Department of Epidemiology and Public Health, CUTN on 18<sup>th</sup> January 2017.
- Internal selection committee member, Department of Biotechnology, CUTN , held on 9<sup>th</sup> August 2023.

### **Conferences/Seminars/Workshops / Special Lectures/ Invited Seminars/Other Academic Programmes Organized /educational tour/camps/student extracurricular activity organized**

#### **Special lecture Organised**

➤ Special Lecture by Dr Shashi Bala Singh, Director, DIPAS, Delhi	14th Sep 2012	Physiological Functions at High Altitude
➤ Special Lecture, Dr Muthusamy, Postdoctoral fellow, USA	10th October 2012	Reverse Pharmacology Approach to Develop Small Molecule Inhibitor for Targeting Ecgp96-A Receptor for meningococcal E. coli K1
➤ Special Lecture by Dr Sudeeran Kannoth, MD, DM, Neuroimmunology lab (T6F3),	2 <sup>nd</sup> Sep 2014	Autoimmune neurological disorders

Amrita Institute of Medical Sciences, Kerala		
➤ Special Lecture by Ms.Parvathy, R & D Manager, Genewin Biotech, Hosur	14 <sup>th</sup> Oct 2015	Opportunities in Life Sciences Today and its Application in Practice
➤ Special Lecture by Mr Chandrasekhar from Biocon Research Limited	20 <sup>th</sup> Oct 2015	Mammalian Cell Culture and Biological Production
➤ Special Lecture by Dr S. Subramanian, Lab Director, Super Speciality Lab, Chennai	2 <sup>rd</sup> Sep 2015	The Challenges in Clinical Laboratory Medicine
➤ Special talk by Dr Kandan Ilango, Zoological Survey of India	27.10.2015	Phlebotomine sand fly research in India
➤ Neurobiology of stress on alcohol addictive behaviour: Approach on Neuroinflammation on Mouse model	25 <sup>th</sup> June 2018	Dr. Muthuraju Sangu, Senior Lecturer, Department of Neuroscience, School Of Medical Sciences, University Sains Malaysia, Kota Bharu, Kelantan, Malaysia.
➤ STRCUTURE BASED DRUG DESIGN (SBDD)”	17th July 2018	Prof.D.VELMURUGAN ( Former Head of the Department ) Centre of Advanced Study in Crystallography and Biophysics University of Madras Guindy Campus Chennai - 60025.
➤ STRUCTURAL BIOLOGY OF PROTEINS : IMPORTANT KNOWLEDGE TO UNDERSTAND THE MECHNAISM	10thAugust 2018	Dr. N. NANDHAGOPAL, CAS in Crystallography and Biophysics, University of Madras, Gundy Campus, Chennai-25
➤ CRYSTALLOGRAPHY: BASICS AND PRACTICE (includes "Demo" on Software utility)	10thAugust 2018	Dr. K. GUNASEKARAN, Assistant Professor, CAS in Crystallography and Biophysics, University of Madras, Gundy Campus, Chennai-25

➤ One Day Lecture Series on X- ray Crystallography and determination of three dimensional structures of Biomolecules	9th July 2018	Dr. D. Velmurugan Professor and Head CAS in Crystallography and Biophysics University of Madras, Guindy Campus Chennai
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### National seminar organised

➤ Recent trends and future advances in life sciences, (RTFALS),	26 <sup>th</sup> and 27 <sup>th</sup> February, 2015	National Seminar
➤ Two days national seminar on challenges and funding opportunities for women in Life Sciences and Economics	4 <sup>th</sup> and 5 <sup>th</sup> February 2016	National Seminar

### Workshop organised

➤ Two days workshop on light-matter interaction in science, SPECTURM 2015	30 <sup>th</sup> and 31 <sup>st</sup> October 2015,	National workshop
➤ 5 Day Workshop on Biological Techniques and Tools: Laboratory Course for Undergraduate Students	19 <sup>th</sup> January 2016 to 23 <sup>rd</sup> January 2016	National workshop
➤ 3 Day Workshop On Immunological Techniques	16 <sup>th</sup> to 18 <sup>th</sup> March 2016	National Workshop

### Other academic programmes organised

➤ Mosquito fogging in CUTN campus with TNPH department	2 <sup>nd</sup> November and 3 <sup>rd</sup> November 2015
➤ Educational tour organised	14 <sup>th</sup> to 16 <sup>th</sup> February 2013 to various research institutes to Ooty, Coimbatore
➤ Taken students to national seminar	12th January, 2015 at St.Joseph's College
➤ Field studies for pond experiment	5 <sup>th</sup> October 2014
➤ Blood donation camp at CUTN with Panchayat Union Elementary School, Pulivalam	8 <sup>th</sup> March 2013
➤ Orientation programme of fresher's, a special advise on personal hygiene	2013
➤ Syllabus expert committee meeting at CUTN	17.12.2012
➤ Syllabus expert committee meeting at IISc with Prof Chandan Das Gupta, Dean of Sciences	26 <sup>th</sup> October 2012
➤ Health check-up for local people at CUTN intercollege fest	2013
➤ School students – orientation on the programme of life sciences	September 4 , 2014

➤ Educational tour, department of mathematics,	3 <sup>rd</sup> April to 7 <sup>th</sup> April 2013
➤ Convener, Board of Studies at Department of Life Sciences, includes syllabus restructured and presented to experts for approval	2 <sup>nd</sup> April 2016

### Reviewed Research Papers For Journals

1. Indian Journal of Experimental Biology
2. Expert Opinion on Therapeutic Patents
3. Medicine
4. Nature Scientific Communications
5. Journal of Neuroimmune Pharmacology
6. Journal of Medicinal Chemistry
7. Current Pharmaceutical Biotechnology
8. Asian Journal of Research and Reports in Neurology.(certificate of excellent in reviewing)
9. WHO Dengue Bulletin
10. Journal of cleaner production
11. Cancers
12. Immunity, Inflammation and Disease
13. International Journal of Molecular Sciences
14. Current Drug Targets

Name of the Course/	Place	Duration		No. of Days	Name of the Institution where the program is conducted
		From	To		
1. 121 <sup>st</sup> Orientation Course	Pondicherry University	18.08.2017 to 14.09.2017		28 days	UGC-HRDC , Pondicherry University
2. Refresher course on Bioinformatics in Life	Mizoram University	22.03.2018 to 11.04.2018		21 days	UGC-HRDC, Mizoram University
3. Two weeks refresher course in life sciences, Tirupathi	Sri ventateswara University	18.10.2021 to 30.10.2021		12 DAYS	UGC-HRDC, Sri ventateswara

4. Attended UGC sponsored Online short term course on MOOCs and open educational resources	Bharathidasan university.	5.01.22 to 11.1.2022,	7 DAYS	UGC-HRDC, Bharathidasan university.
5. Faculty Development programme “Measures To Mitigate Climate Change”	Central University of Tamil Nadu	12 .10.2020	16.10. 2020	Department of Life Sciences
6. Data analysis using SPSS and AMOS T	JAIPURIA INSTITUTE OF MANAGEMENT	11.0.2023	14.09.2023	JAIPURIA INSTITUTE OF MANAGEMENT, Rajasthan
7. UGC Sponsored online short term course on outcome based education and credit framework	Bharathidasan university.	20.09.2023	26.09.2023	UGC-HRDC, Bharathidasan university.

8. UGC sponsored online program on NEP 2020 Oreintation and Sensitization programe	Bharathidasan university.	15.07.2024	24.07.2024	UGC Bharathidasan university.	MMTTC-
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### **Membership in professional bodies**

- National academy of vector borne diseases
- Indian society of malaria and other communicable diseases
- Entomological society of India

### **Reviewed project for**

- Kerala State Council for Science Technology and Environment (KSCSTE).

### **2022 conference presentation**

- Study on the prevalence of Scrub typhus and coinfections in Thiruvavur District of Tamil Nadu, India. SK Farhat & Jayalakshmi Krishnan. 21.07.2022.

### **Academic editor 2022 July**

- Asian Journal of Research and Reports in Neurology

### **RAC committee member**

- Varsha V, under Dr Kavya, Department of Microbiology, CUTN
- Abey Kumar under Dr Siva Sundar Kumar, Microbiology, CUTN

### **M.Sc Project students guided**

S No	MSC Students Project Title	Name	Year
1. Jayalakshmi Krishnan	INVESTIGATION OF PLANT EXTRACTS AS POTENTIAL LARVICIDAL AGENTS AGAINST CULEX QUINQUEFASCIATUS AND ANOPHELES STEPHENSI	Sumathra (I120316)	2017
2. Jayalakshmi Krishnan	Larvicidal Properties of Plant Extracts Against Aedes aegypti and Culex tritaeniorhynchus	Selvapornai (I120221)	2017
3. Jayalakshmi Krishnan	Study of dengue vector breeding habitats and entomological indices in Nagapattinam district, Tamil Nadu, India	Kaviyaran M (P161502)	2018
4. Jayalakshmi Krishnan	Vector Surveillance for Assessing the risk of transmission of dengue and other vector borne disease at Thiruvavur district, Tamil Nadu	K Saranya (P161510)	2018
5. Jayalakshmi	EFFECT OF DDT, MALATHION AND	Harinisri R	2019

Krishnan	DELTAMETHRIN ON ADULT SUSCEPTIBILITY STATUS OF JAPANESE ENCEPHALITIS VECTOR <i>Culex gelidus</i> COLLECTED FROM RURAL AREAS OF THIRUVARUR DISTRICT, TAMIL NADU.	(I140308)	
6. Jayalakshmi Krishnan	"INSECTICIDAL SUSCEPTIBILITY STATUS AND KNOCKDOWN RESISTANCE MUTATION ON SECONDARY DENGUE VECTOR, <i>Aedes albopictus</i> FROM RURAL SETTINGS OF THIRUVARUR DISTRICT, TAMIL NADU"	Subash (I140322)	2019
7. Jayalakshmi Krishnan	IMMATURE SURVIVORSHIP AND INSECTICIDE SUSCEPTIBILITY OF <i>Aedes Aegypti</i> IN AN URBAN SETTING OF CHENNAI, INDIA	Susmita Halder (P171508)	2019
8. Jayalakshmi Krishnan	A CROSS SECTIONAL STUDY TO ASSESS THE MALARIA PREVALANCE AMONG FISHERMEN IN CHENNAI.	Tomcy Thomas (P171507)	2019
9. Jayalakshmi Krishnan	MOSQUITOES SURVEILLANCE IN KUMBAKONAM (THANJAVUR DISTRICT) AND BLOOD MEAL ANALYSIS IN FIELD CAUGHT VECTOR MOSQUITOES FROM TIRUVARUR DISTRICT USING PRECIPITATION METHOD	S Bhuvana (I150309)	2020
10. Jayalakshmi Krishnan	BIO-DIVERSITY AND MOLECULAR TAXONOMIC IDENTIFICATION OF MOSQUITOES FROM TIRUVARUR DISTRICT OF TAMIL NADU USING DNA BAR-CODING	Ashmin Leo (I150306)	2020
11. Jayalakshmi Krishnan	A STUDY TO ASSESS THE KNOWLEDGE ATTITUDE PRACTICE & ASSOCIATED FACTORS AMONG PATIENTS WITH (TYPE 2 DM) :TERTIARY CARE HOSPITAL IN TANJORE.	Thirupthi G (P181514)	2020
12. Jayalakshmi Krishnan	DNA barcoding of mosquitoes from thiruvarur distrctit of tamil nadu	Harharan M (18HGMA09)	2020
13. Jayalakshmi Krishnan	Molecular identification of mosquitoes from Thiruvarur district of Tamil Nadu using DNA barcoding	R Subhalatshmi (I160624)	2021
14. Jayalakshmi Krishnan	Surveillance of larval mosquitoes from Thiruvarur district of Tamil Nadu, India	Janani R (I160609)	2021

15. Jayalakshmi Krishnan	Vector borne diseases in India, Tamil Nadu, - a retrospective and prospective view.	G Sakthipriya (I160620)	2021
16. Jayalakshmi Krishnan	Knowledge, Attitude, and Practices towards Dengue fever among University / College Students in Thiruvarur District of Tamil Nadu, India	Liston FDO R (I170612)	2022
17. Jayalakshmi Krishnan	Knowledge, attitude, and practices study on substance abuse in college male students of Thiruvarur district, Tamil Nadu, India	Ananya hatibaruah (I170603)	2022
18. Jayalakshmi Krishnan	Plant Extracts as a Natural Insecticide against <i>Aedes albopictus</i> – A Study on Trehalose Accumulation Levels	Renjisha Venugopal T I180624	2023
19. Jayalakshmi Krishnan	Larvicidal and Trehalose activity of <i>Prosopis juliflora</i> , <i>Calotropis porcera</i> , and <i>Azadirachta indica</i> against Dengue Vector, <i>Aedes albopictus</i> from Thiruvarur district of Tamil Nadu	Suryanarayana R I180628	2023
20. Jayalakshmi Krishnan	Exploring Black Tulsi's Mosquito Larvicidal Potential and the Variation in Surface Tension Dynamics of its Ethanolic Extract.	Joel Jaison Reg. No. I190611	2024
21. Jayalakshmi Krishnan	Surveillance of Ectoparasites Causing Typhus Fever from the Rodents and Shrews of Thiruvarur District of Tamil Nadu.	Narendar R Reg. No. I190616	2024

#### **MoU signed 2023**

- Took initiative to sign MoU between TIGS and CUTN in the field of *vectors and vector borne diseases* , signed on 25<sup>th</sup> July 2023.

#### **Doctoral Committee member 2023**

- Bharathiyar University , Department of Zoology, 10.08.2023.

#### **2023 Expert to Govt of India**

- Nominated as expert to deliberate on “Workshop on Developing tools for Entomological Capacity” on 30<sup>th</sup>- 31<sup>st</sup> January, 2023 at Hotel Le Meridian, New Delhi.

#### **Policy document to Govt of India 2022**

- National Vector Borne Disease control Programme , Dengue , Advisor , To Govt of India , Ministry of Health and Family welfare

#### **2023 September**

- Editorial Board member, International Journal of Infectious Diseases and Therapy (IJIDT)

## Book Chapter

Name of the authors, Title of the paper, Name of the book, Editors, ISSN number

1. **Jayalakshmi Krishnan**, Swathy Kannan, Impact of Nano-insecticides in Combination with Nanofertilizers, Nano-Insecticide (pp.241-256)Editors: Perumal Vivekanandhan, Patcharin Krutmuang, Ram Prasad, Jayalakshmi Krishnan.eBook ISBN978-3-031-75798-3.
2. B. Sathya Jeevitha, R. Narendar, **Jayalakshmi Krishnan**, Mechanisms of Nano-insecticide Formulation Release, Nano-Insecticide (Pages 123-145)Editors: Perumal Vivekanandhan, Patcharin Krutmuang, Ram Prasad, Jayalakshmi Krishnan.eBook ISBN978-3-031-75798-3
3. Rajalakshmi Anbalagan, **Jayalakshmi Krishnan**, Swathy Kannan, Bioavailability and Environmental Safety of Nano-insecticides, Nano-Insecticide (Pages 147-165)Editors: Perumal Vivekanandhan, Patcharin Krutmuang, Ram Prasad, Jayalakshmi Krishnan.eBook ISBN978-3-031-75798-3.
4. S. K. Farhat, S. Binduja, **Jayalakshmi Krishnan**, Human Toxicity of Nano-insecticides, Nano-Insecticide(Pages 199-220). Editors: Perumal Vivekanandhan, Patcharin Krutmuang, Ram Prasad, Jayalakshmi Krishnan. eBook ISBN978-3-031-75798-3.
5. Joel Jaison, **Jayalakshmi Krishnan\***, Mosquitoes Control Strategies to Reduce the Impact of Vector-borne Diseases - Pp. 1-8 (8). Vector Borne Diseases: Current Trends and Public Health Perspectives, Editor: Jayalakshmi Krishnan. ISBN: 978-981-5313-66-6 (Print).
6. Narendar R., **Jayalakshmi Krishnan\***, Unraveling the Impact of Rickettsial Infections - Pp. 9-38 (30). Vector Borne Diseases: Current Trends and Public Health Perspectives, Editor: Jayalakshmi Krishnan. ISBN: 978-981-5313-66-6 (Print).
7. S. K. Farhat, **Jayalakshmi Krishnan\***, Scrub Typhus and its Co-Infections with Vector Borne Zoonotic Diseases - Pp. 39-60 (22). Vector Borne Diseases: Current Trends and Public Health Perspectives, Editor: Jayalakshmi Krishnan. ISBN: 978-981-5313-66-6 (Print).
8. Sathya Jeevitha B., **Jayalakshmi Krishnan\***, Scrub typhus- An Integrated Omics Approach - Pp. 61-88 (28) Vector Borne Diseases: Current Trends and Public Health Perspectives, Editor: Jayalakshmi Krishnan. ISBN: 978-981-5313-66-6 (Print).

9. Binduja S., **Jayalakshmi Krishnan\***, Silent Suffering: Lymphatic Filariasis in the Heart of India - Pp. 89-117 (29)Vector Borne Diseases: Current Trends and Public Health Perspectives, Editor: Jayalakshmi Krishnan. ISBN: 978-981-5313-66-6 (Print).
10. PK Srivastava, Pradhan M, **Jayalakshmi K**, Anju Viswan K, Anupam B Sharma. "Malaria ; An overview" , Page 13-30, Book name: Vector Borne diseases in India, Public Health Challenges, ISBN number: 978-93-341-65-46-3.

#### **Book published,**

- a. **Jayalakshmi Krishnan**, Vector Borne Diseases: Current Trends and Public Health Perspectives,ISBN: 978-981-5313-66-6 (Print).
- b. Perumal Vivekanandhan, Patcharin Krutmuang, Ram Prasad, **Jayalakshmi Krishnan**.Nano insecticides – Today and Future Perspectives,eBook ISBN 978-3-031-75798-3.

#### **Honours/Award received**

1. Jayalakshmi Krishnan Presented a paper at the 3<sup>rd</sup> International Conference in the Prevention and Control of Vector Borne Disease entitled "Co-detection of Scrub typhus and Leptospirosis in chiggers collected from Thiruvarur District, Tamil Nadu" organized by CIMSER, Department of Advanced Zoology and Biotechnology, Loyola College and Absolute Human Care Foundation (AHCF), New Delhi and awarded **first prize for best oral presentation** , 9<sup>th</sup> and 10<sup>th</sup> December 2024.

#### **List of invited talk 2024-2025**

1. Dr Jayalakshmi Krishnan "Awareness camp on Yoga and Menstrual health" organized byUnnat Bharat Abhiyan, Gave a talk to High secondary students at Anaikuppam village, Thiruvarur Dt. 19.3.2025.
2. Dr Jayalakshmi Krishnan, Resource person on "State level conference on Contemporary Sciences" organized by Srinivasan college of Arts and Science, Perambalur , 28/02/2025.
3. Dr Jayalakshmi Krishnan, "*Leptotrombidium deliense is the major mite species collected from the rodent ear from Thiruvarur district of Tamil Nadu* ", India , 5<sup>th</sup> International conference on Recent trends in Life Sciences and Biotechnology, 12<sup>th</sup> December 2024, at maharishi Markandeshwar University, Haryana.
4. Dr Jayalakshmi Krishnan ,"Overview of chordates with reference to Evolution of horses" at the Indo Japan symposium held on 02.12.2024 organized by Department of Zoology, Central University of Punjab and the Department of Paediatrics, All India Institute of Medical Sciences, Bathinda, Pubjab.

5. Dr Jayalakshmi Krishnan acted as Chairperson in the 14<sup>th</sup> INSPA international conference on Research prospects in School Psychology” Conducted by the Department of Applied Psychology CUTN on 24<sup>th</sup>October 2024.
6. Dr Jayalakshmi Krishnan, presented a paper titled “ Identification of serotypes of Orientia tsutsugamushi from infected scrub typhus patients of Thiruvarur District of Tamil Nadu, 19<sup>th</sup> October 2024 at AIIMS , Madurai.
7. Dr Jayalakshmi Krishnan invited as Chief guest and delivered a talk on “Scrub typhus incidence in Thiurvarur “ at the state level seminar on innovatios and emerging trends in vector associated parasitic diseases –Zika, Dengue and Scrub typhus “ organized by PG and Research Department of Zoology, Poompuhar College, Melaiyur, Tamil Nadu on 9<sup>th</sup> October 2024.
8. Dr Jayalakshmi Krishnan invited as Chief guest and delivered a talk on “ Personal Hygiene and Self-care for Disease Prevention” organized by the NCC and NSS in association with Center for happiness, Department of Physical Education and Sports, Department of EPH and Department of Psychology , CUTN on 25.09.2024.
9. Dr Jayalakshmi Krishnan invited as Chief guest and delivered a talk on “ Mobile abuse and its implications “ on 29<sup>08.2024</sup> at Ants and Bees international school . Thiruvarur.