

Curriculum Vitae

Dr. Jayalakshmi Krishnan

M.Sc. M.Phil., Ph.D.,

jayalakshmi@cutn.ac.in, jaikrish79@gmail.com

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 various districts of Tamil Nadu.
- Working in climate change aspects of vector borne diseases
- Postdoc from Ajou University South Korea, 2006-2008
- PhD from DRDO,, Delhi 2002-20026
- 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 2012-2016
- Organized various programs in vector control , including WHO expert consultation for Kala-Azar elimination in 2016
- Organized 13th International conference for vector borne diseases , 2017
- Organized various workshops , outreach activities
- Produced one P.hD in the field of entomological surveillance and insecticide resistance
- Have guided 12 master students in the field of entomology
- Have completed two projects from ICMR and TIGS on vector surveillance at Lakshadweep islands
- Teaching various papers in life sciences including vector biology and management

Curriculum Vitae

Dr Jayalakshmi Krishnan

Current Position

- Assistant Professor,
- Division of Neuroimmunology and Vector Biology Research Laboratory ,
- Department of Biotechnology
- Central University of Tamil Nadu , Thiruvarur, Tamil Nadu, India,
- Telephone: 919361647605 E-mail: jayalakshmi@cutn.ac.in, jaikrish79@gmail.com

Educational Qualification

Position	University	Percentage	Country/Place	year
Postdoc	Ajou Univesirty	NA	South Korea	2006-2009
PhD-Physiology	DRDO/DIPAS/Bharathiyar University	NA	New Delhi,India	2002-2006
M.Phil-Zoology	Bharathiyar University	68%	Coimbatore,India	2000-2002
MSc-Zoology	Bharathiyar University	78%	Coimbatore,India	1998-2000
BSc-Zoology	Vellalar College for WOMEN, Erode	72%	Coimbatore,India	1995-1998
+2 Higher secondary	Government girls higher secondary school, kaveripatinam, Tamil Nadu	60%	Krishnagiri District,India	1993-1995
10 th Standard	Government boys higher secondary school, kaveripatinam, Tamil Nadu	76%	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- 19th to 20th August 2016, funded by **World Health Organization**

International Conference

- **Organising Secretary**, 13th Conference on Vectors and Vector Borne Diseases, 27th February 2017-1st 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 - ECD -I1	ICMR March 2017 to September 2018	PI	25,00,000-/-	Completed
2.	Mosquito vectors of Lakshadweep islands , their insecticide status and gene flow studies	TIGS (TATA Institute of Genetics Society) June 2019 to June 2020	PI	31,92,200-/-	Completed
3.	Prevalence of substance abuse in University/College students in four metropolitan cities of India	ICMR	PI	8,05,300-/-	Ongoing

Publications

S No	Year	Title	Authors	Journal /Book	Impact factor
1	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
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

3	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
4	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,
5	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
6	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
7	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,
8	2020	Seasonal variations among dengue vector mosquitoes in rural settings of Thiruvarur district in Tamil Nadu,	Arpita Shukla, A Rajalakshmi, K Subash, S Jayakumar, N Arul, Pradeep Kumar Srivastava, Alex Eapen,	Journal of Vector Borne Diseases. 2020, 57, Issue : 1, Page : 63-70	1.6

		India.	Jayalakshmi Krishnan.		
9	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
10	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, Ravindrian Jeyaraman , Rambabu N Reddi , Jayalakshmi Krishnan , Min Li , Siva Sundara Kumar Durairajan	.Planta Med, . 2020 Nov;86(16):1161-1175.	2.74
11	2020	Knowledge and attitudes about the use of emergency contraception among college students in Tamil Nadu, India.	Davis, P., Sarasveni, M., Krishnan, J. et al.	J. Egypt. Public Health. Assoc. 95, 1 (2020). Page 1-11	1.44
12	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
13	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
14	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
15	2016	A structural insight into the negative effects of	CS Shah M, Anwar MA, Yesudhas D,	Nature Scientific Reports 6, 39271,	5.2

		opioids in analgesia by modulating the TLR4 signaling: An in silico approach .	Krishnan J.	2016.	
16	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
17	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

PhD GUIDED /Completed: 02

Under Guidance : 01

MSc Dissertation Guided : 15

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 1st 2016 onwards.
- Serving as question paper setting board member of Department of Microbiology, St.Joseph's College Arts & Science,(Autonomous) from March 1st 2016 onwards.

Administrative responsibilities

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

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.11-13th 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 16th 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. 19th 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. **19th 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

Awards for best paper received

2018

- AMRITACON 2018, Best paper award for "Prevalence of Disease Vectors at Lakshadweep Islands" at International Public Health Conference held at AIMS, Kochi from 2nd and 3rd November 2018.

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 18th 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. 20th 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 14th March, 2014.
4. Invited talk in, One Day Workshop To The School Teachers Of Thiruvarur (Pedagogical Training Programme for Science Teachers) a talk on **Pedagogical Strategies In Teaching Botany & Zoology**, 19th 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 4th 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 Nurisng 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 2nd and 3rd 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, 5th annual meeting of international association of zoologists and 2nd 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

Presented a poster on “**Distribution of mosquito fauna in Minicoy –Lakshadweep Islands, India**”, **15th conference on vectors and vector borne diseases** , from 15th Feb 2023 to 17th 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 29th may to 31st May 2023.

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 24th to 25th 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 **8th September 2018** at Central University of Tamil Nadu , Thiruvavur.

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, Thiruvavur, 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 aegypti and dengue transmission** ,in one day winter school national level workshop in dengue awareness on 11th 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 Chattopadhyaya. 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

Programme Director

2017

- Two days programme on **Health Awareness to Kendriya Vidhayala students** from 11th -12th 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 TM 7, **DATE: 23 - 25 January 2018.**
- Programme director and chairperson, Know your Brain, **6th to 7th Sep 2018**
- Programme director and chairperson, Three days state level workshop for vector biology research, **14th to 16th November 2018.**
- Free eye camp with Health Centre and DEPH held on **11th and 12th 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 18th January 2017.
- Internal selection committee member, Department of Biotechnology, CUTN , held on 9th 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
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➤ 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), Amrita Institute of Medical Sciences, Kerala	2 nd Sep 2014	Autoimmune neurological disorders
➤ Special Lecture by Ms.Parvathy, R & D Manager, Genewin Biotech, Hosur	14 th Oct 2015	Opportunities in Life Sciences Today and its Application in Practice
➤ Special Lecture by Mr Chandrasekhar from Biocon Research Limited	20 th Oct 2015	Mammalian Cell Culture and Biological Production
➤ Special Lecture by Dr S. Subramanian, Lab Director, Super Speciality Lab, Chennai	2 rd 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 th 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)	10th August 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

National seminar organised

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

Workshop organised

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

Other academic programmes organised

➤ Mosquito fogging in CUTN campus with TNPH department	2 nd November and 3 rd November 2015
➤ Educational tour organised	14 th to 16 th 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 th October 2014
➤ Blood donation camp at CUTN with Panchayat Union Elementary School, Pulivalam	8 th 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 th 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 rd April to 7 th April 2013
➤ Convener, Board of Studies at Department of Life Sciences, includes syllabus restructured and presented to experts for approval	2 nd 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

Invigilation duty done

- 11th May 2022,-LIF303, Reproductive Biology
- 16.11.2017, LIFE, LIF073 45 students, Dr Jayalakhmi
- April /may 2017, LIF061, LIFE09 Dr jayalakshmi
- 21.11.2016, FN, DrJjayalakshmi
- 8.5.2023 and 11.05.2023; Dr Jayalakshmi,

Teaching Experience (subjects taught)

- 2010
 - Cell and Tissue culture techniques
 - Genetics
 - Cell Biology
- 2012-2013-subjects taught:
 - Biology I (Introductory biology, animal and plant physiology, ecology and biodiversity),
 - Biology II (cell biology, Genetics and Biochemistry),
 - Biology I lab practical, Biology II lab practical
 - Environmental Studies
- 2013-2014,-subjects taught:
 - Biology IV (Immunology and Neurobiology),
 - Cell Biology,
 - Animal Physiology theory
 - Animal Physiology practical
- 2014-2015-Subjects Taught:
 - Neuroimmunology,
 - Immunology, Immunology Practical

- 2015-2016- Subjects Taught:
 - Vectors, Vector Borne Diseases and Management
 - Immunology
 - Immunology Lab
- 2016-2017- Subjects Taught:
 - Immunology
 - Neurobiology
 - Reproductive and Sexual Health
 - Animal Physiology lab
 - Animal Physiology paper
 - Research Methodology for Epidemiology and Public Health
- **2017-2018**
 - Global health diplomacy
 - Animal Physiology
 - **ODD semester 2018**
 - Vector biology practical's
 - Neurobiology
 - Immunology
 - Field work at EPH
- **2018-2019**
 - Global Health Diplomacy
 - Vector Borne Diseases in Public Health Importance
 - Immunology
 - Reproductive and sexual health
 - Endocrinology
 - Diseases of Human Health
 - Neurobiology
 - Practical's of Vector Borne Diseases
- **2019-2020**
 - Vector biology
 - Neurobiology
 - Dissertation protocol
- **2020-2021 odd semester**
 - Genetics and Evolution Biology
 - Biostatistics, Bioinformatics and Ethics (for PHD)
- **2021-2022 Even semesters**
 - Neurobiology
 - Research ethics, data analysis, biostatistics and bioinformatics
- **2022-2023**
 - i. Endocrinology
 - ii. Vector biology for phd
 - iii. Biology of addiction in human brain and behaviour change
- **2022-2023**
 - Neurobiology
 - Cell biology theory
 - Cell biology practicals
 - Biology of addiction in human brain

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

Membership in professional bodies

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

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

- Varssha 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 PLANTS EXTRACTS AS POTENTIAL LARVICIDAL AGENTS AGAINST CULEX QUINQUEFASCIATUS AND ANOPHELES STEPHENSI	Sumathra (I120316)	2017
2. Jayalakshmi Krishnan	Larvicidal Properties of Plant Extracts Against <i>Aedes aegypti</i> and <i>Culex tritaeniorhynchus</i>	Selvapoornai (I120221)	2017
3. Jayalakshmi Krishnan	Study of dengue vector breeding habitats and entomological indices in nagaipatinam 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 thiruvarur district, tamil nadu	K saranya (P161510)	2018
5. Jayalakshmi Krishnan	EFFECT OF DDT, MALATHION AND DELTAMETHRIN ON ADULT SUSCEPTIBILITY STATUS OF JAPANESE ENCEPHALITIS VECTOR <i>Culex gelidus</i> COLLECTED FROM RURAL AREAS OF THIRUVARUR DISTRICT, TAMIL NADU.	Harinisri R (I140308)	2019
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 PREVALENCE 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 distrcit 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

MoU signed 2023

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

Doctoral Committe member 2023

Bharathiyar University , Department of Zoology, 2023.