

## CURRICULUM VITAE

### General Information

<b>Dr. K. LAGESWARAN,</b> <b>Assistant Professor &amp; Head i/c</b> <b>Department of Biomedical Science</b> <b>Science Campus, Alagappa University</b> <b>Karaikudi – 630 003 Tamil Nadu, India</b>		
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<b>i10 – Index</b>	:	<b>37</b>

### Academic Qualification

Course	Department	Organization
Ph.D. Molecular Biology – Pharmacology & Environmental Toxicology	Department of Pharmacology & Environmental Toxicology	University of Madras
M.Sc. Molecular Biology	Department of Genetics	University of Madras
B.Sc. Microbiology	Department of Microbiology	Kandaswami Kandar's College Periyar University

**Research Specialisation: Molecular Oncology, Cancer Informatics, Environmental Toxicology**

## Professional Experience

Position	Department & Institution	Duration
Assistant Professor & Head i/c	Department of Biomedical Science, Science Campus, Alagappa University, Karaikudi	1 <sup>st</sup> June 2023 – Till Date
Assistant Professor	Department of Biotechnology, Science Campus, Alagappa University, Karaikudi	11 <sup>th</sup> July 2022 – 31 <sup>st</sup> May 2023
	Department of Bioinformatics, Science Campus, Alagappa University, Karaikudi	5 Yrs, 10 Months & 10 Days
	Department of Biotechnology, Science Campus, Alagappa University, Karaikudi	8 Months & 21 Days
	Department of Industrial Biotechnology, Bharath University, Chennai	1.6 Years

## Additional Responsibilities

S. No	Responsibilities	Duration
1.	Coordinator, Cultural Club of Alagappa University	January 13, 2023 to Till Date
2.	Deputy Warden, PG Hostel for Men, Alagappa University	May 25, 2023 to Till Date

## Research Supervision / Guidance

Programme of the Study		Completed	On going
Research	Ph.D.	2	2
	M.Phil.	-	
Project	PG	24	
	UG/PG Diploma	1	-

## Publications Summary

International		National		Others		
Journals	Conferences	Journals	Conferences	Text Books	Book Chapters	Monographs
109	24	-	6	1	32	5

## Projects Ongoing/ Completed

S. No	Title of the Project	Funding Agency	Amount in ₹	Role in the Project
1.	Evaluation of therapeutic significance of marine alga <i>Ulva fasciata</i> Delile in Human hepatoma cell line (HepG2)	Alagappa University (AURF)	1,00,000	Principal Investigator

2.	Anti-Proliferative and cytotoxic efficiency of Fucoxanthin on human hepatoma cell line – An in vitro approach	UGC (Start-Up Grant)	10,00,000	Principal Investigator
3.	Investigation anti-Tumourogenic efficacy of Tangeretin in HepG2 cell line	Rashtriya Uchchatar Shiksha Abhiyan (RUSA) (Phase - I)	12, 00,000	Principal Investigator
4.	Investigation anti-Tumourogenic efficacy of Tangeretin in HepG2 cell line	Rashtriya Uchchatar Shiksha Abhiyan (RUSA) (Phase - II)	4,80,000	Principal Investigator
5.	An Evaluation of Intrinsic and Extrinsic apoptotic pathway modulating potential of phytocompounds present in <i>Hydnocarpus wightianus</i> against Osteosarcoma cell line	Alagappa University (AURF Seed Money)	1,20,000	Principal Investigator
6.	Development of a novel drug delivery system microalgae to combat against microbial pathogens combined with the commercial cultivation of microalgae as an Entrepreneurial Venture	Chief Minister Research Grant (CMRG), Government of Tamil Nadu	28,14,000	Co-Principal Investigator

#### Distinctive Achievements /Awards

- Received **Har Gobind Khorana Best Young Scientist Award** from Bose Science Society and sponsored by Tamil Nadu Scientific Research Organization, Tamil Nadu, India
- Received **Dr.APJ Abdul Kalam Award for Scientific Excellence for the Year 2019** from Marina Labs, Chennai.
- Awarded Certificate of Appreciation in recognition of the contribution made to **THEME BASED RESEARCH PROJECT OF RUSA 2.0** towards the **QUALITY ENHANCEMENT IN TEACHING AND RESEARCH**.
- Received **Academic and Research Excellence Award – 2022** in recognizing outstanding Academic and Research Excellence during 2023-2024.
- Received **Promising Researcher Award – 2024** in recognition of the contribution made towards **EXCELLENCE IN RESEARCH** at Alagappa University.

#### Other Training Programme

S. No	Name of the Programmes	Organizer	Duration
1.	100 <sup>th</sup> Orientation Program	Bharathidasan University, Tiruchirappalli, Tamil Nadu	15.11.2017 to 12.12.2017
2.	Refresher Course in Life Sciences (Interdisciplinary)	Bharathidasan University, Tiruchirappalli, Tamil Nadu	16-07-2019 to 29-07-2019
3.	Faculty Development Program on Research, Publication and Patent Filing	Sathyabama Dental College and Hospital, Tamil Nadu	10-08-2020 to 15-08-2020
4.	Inter-Disciplinary Online Two – Week	Teaching Learning Centre,	

	Refresher Course/Faculty Development Programme on "Managing Online Classes & Co-creating MOOCs 7.0"	Ramanujan College, University of Delhi	05-08-2021 to 19-08-2021
5.	Refresher Course in Biochemistry and Biotechnology	Bharathidasan University, Tiruchirappalli, Tamil Nadu	07-10-2022 to 20-10-2022
6.	Faculty Development Programme on Gender and Disaster Management	Mother Teresa Women's University, Kodaikanal	27-05-2024 to 31-05-2024

#### Chairperson/Co-Chairperson in Conferences

S. No	Name of the Conference	Organizer of the Conference	Resource Person	Date of the Conference
1.	9 <sup>th</sup> National symposium cum workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design	Department of Bioinformatics, Science campus, Alagappa University, Karaikudi	Co-Chairperson for a session	14 <sup>th</sup> -17 <sup>th</sup> Feb 2017
2.	10 <sup>th</sup> National symposium cum workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design	Department of Bioinformatics, Science campus, Alagappa University, Karaikudi	Co-Chairperson for a session	20 <sup>th</sup> – 23 <sup>rd</sup> Feb 2018
3.	11 <sup>th</sup> National symposium cum workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design	Department of Bioinformatics, Science campus, Alagappa University, Karaikudi	Co-Chairperson for a session	12 <sup>th</sup> – 15 <sup>th</sup> Feb 2019
4.	International Conference on Innovation and Emerging Trends in Botany (ICIETB -2019)	Department of Botany, Alagappa University, Karaikudi	Co-Chairperson for a Technical Session	6 <sup>th</sup> - 7 <sup>th</sup> Nov 2019
5.	International Conference on Recent Trends in Bioplastics	Department of Microbiology, Science Campus, Alagappa University, Karaikudi	Co-Chairperson for a session	9-10 Dec 2019
6.	International Conference on Structural Bioinformatics and Computer Aided Drug Design – 2019 (ICSBCADD – 2019)	Department of Bioinformatics, Science campus, Alagappa University, Karaikudi	Co-Chairperson for a Technical Session	11 <sup>th</sup> – 13 <sup>th</sup> Dec 2019
7.	Tamil Nadu Former Chief Minister Kalaingar M. Karunanidhi Centenary Function – 2023	Department of Journalism and Mass Communication, Department of History, Alagappa University &The Tamil Nadu State Council for Higher Education (TANSCHE)	Chaired a Session	09-10-2023
8.	A Two-Day International Conference on Emerging Trends in Higher Education (ICETHE – 2024)	Alagappa University College of Education, Alagappa University, Karaikudi	Chaired a Session	14 & 15-03-2024
9.	International Conference on FutureBio 2025: Smart Technologies and Sustainable	Department of Animal Health and Management, Alagappa University, Karaikudi	Chaired a Session	29 & 30-09-2025

	Strategies in Biosciences (FSTSSB - 2025)			
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#### Events organized in leading roles

S. No	Name of the Programme	Leading Role	Date of the Event
1.	3 <sup>rd</sup> National Seminar on Cancer Prevention and Management on the occasion of World Cancer Day - 2026	Organizing Secretary	4 <sup>th</sup> February 2026
2.	3 <sup>rd</sup> International Symposium on Advances in Laboratory Techniques for Biomedical Applications	Organizing Secretary	8 <sup>th</sup> January 2026
3.	Workshop on Cancer Therapy "Translating Computational Insights into Clinical Oncology and Future Therapeutics" funded by Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0) EIC Hub-ALU	Organizing Secretary	13 <sup>th</sup> – 15 <sup>th</sup> November 2025
4.	2 <sup>nd</sup> National Seminar on Cancer Prevention and Management on the occasion of World Cancer Day - 2025	Organizing Secretary	24 <sup>th</sup> February 2025
5.	2 <sup>nd</sup> International Symposium on Advances in Laboratory Techniques for Biomedical Applications	Organizing Secretary	30 <sup>th</sup> January 2025
6.	National Seminar on Cancer Prevention and Management on the occasion of World Cancer Day - 2024	Organizing Secretary	5 <sup>th</sup> February 2024
7.	International Symposium on Advances in Laboratory Techniques for Biomedical Applications	Organizing Secretary	31 <sup>st</sup> January 2024
8.	International Conference on Recent Trends in Biosciences Organized by Department of Biosciences, Alagappa University, Karaikudi	Organizing Committee Member	7 <sup>th</sup> – 9 <sup>th</sup> April, 2016
9.	9 <sup>th</sup> National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" [SBCADD'2017], Department of Bioinformatics, Alagappa University	Organizing Committee Member	14 <sup>th</sup> – 17 <sup>th</sup> February 2017
10.	10 <sup>th</sup> National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" [SBCADD'2018], Department of Bioinformatics, Alagappa University	Organizing Committee Member	20 <sup>th</sup> – 23 <sup>rd</sup> February 2018
11.	11 <sup>th</sup> National Symposium cum Workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" [SBCADD'2019], Department of Bioinformatics, Alagappa University	Organizing Committee Member	12 <sup>th</sup> – 15 <sup>th</sup> February 2019

12.	International Conference on Structural Bioinformatics and Computer Aided Drug Design – 2019 (ICSBcADD – 2019), Department of Bioinformatics, Alagappa University	Organizing Committee Member	11 <sup>th</sup> – 13 <sup>th</sup> December 2019
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#### International and National Lectures

S. No	Name of the Department & Institution	Title of the Lecture	Date
1.	Science Club, Mannar Thirumalai Naicker College, Madurai	Molecular Basis of Hepatocellular Carcinoma	27-Feb-2018
2.	Department of Medical microbiology, Quest International University Perak, Malaysia	Primary Liver Cancer Diagnostics and Therapeutics	02-May-2018
3.	Department of Microbiology, Kandaswami Kandar's College, Velur, Namakkal	Molecular Biology Techniques	22-Feb-2019
4.	Biochemistry Association, Department of Biochemistry, St.Joseph's College, Tiruchirappalli	Computational Studies in Drug Designing against the deadly disease – Cancer	09-Nov-2020
5.	Department of Biochemistry, St.Joseph's College, Tiruchirappalli	Bioinformatics – The Commencement of a New Era of Biology	13-Mar-2021
6.	Department of Microbiology, Kandaswami Kandar's College, Velur, Namakkal	State Level Symposium on Implications for Health and Design	03-Apr-2021
7.	Department of Microbiology, AVS College of Arts and Science, Salem	Bioinformatics Approaches for the Treatment of Cancer	24-Dec-2021
8.	University of Madras, MHRD-RUSA 2.0 Entrepreneurship & Career Hub under skill-based internship programme on molecular diagnostic techniques	Pathways and Biomarkers of Cancer	09-03-2022
9.	Department of Biotechnology, Sri Ganesh College of Arts and Science, Ammapet, Salem	Cancer Biology and Cancer Informatics – An overview	11-Apr-2022
10.	PG & Research Department of Biochemistry, Vivekanandha College of Arts & Sciences for Women (Autonomous), Namakkal.	Promising Strategy of Phytocompounds for cancer prevention and treatment	17-May-2022
11.	THE WILMUT CLUB, PG & Research Department of Biotechnology, J.J. College of Arts and Science, Pudukkottai	Importance of Biotechnology in Environmental Protection	26-Dec-2022
12.	Department of Physics, Mannar Thirumalai Naicker College, Madurai	Cell Biology – An Overview	03-Jan-2023
13.	Two Day National Conference on Advanced Bio-Chem Development organized by Department of Biochemistry and Department of Biotechnology, Sri Saratha	Fighting Cancer Naturally – Phytocompounds on the frontline	1 & 2 – Feb – 2024

	Niketan College for Women, Devakottai		
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### Paper Presentation

S. No	Name of the Conference with Organizer	Title of the Paper	Date
1.	Annual conference of southern regional Indian Pharmacological society organized by Department of Pharmacology, JIPMER.	Anti-Carcinogenic efficiency of Limonin in HepG2 cells	12-13, July 2008
2.	International Conference on Molecular Medicine, held at Indian Institute of Technology Madras, organized by Laila pharma & IIT-M. Chennai	Anti-cancer and Anti-oxidant activity of Ethanolic extract of <i>Scopario dulcis</i> against N-Nitrosodiethylamine (NDEA) induced Hepatocellular carcinoma (HCC) in Wistar albino rats.	14-16, Nov 2008
3.	International conference on "Recent Trends in Microbiology (RTM - 2016)" conducted by Department of Microbiology, Science campus, Alagappa University	Bioremediation of biofouling: A Metagenomic and proteomic approaches.	20-21, Dec 2016
4.	International conference on "Recent Trends in Microbiology (RTM - 2018)" conducted by Department of Microbiology, Science campus, Alagappa University	Efflux Pump systems in Bacteria: A novel mechanism towards the drug mechanism.	11-12, Jan 2018
5.	National symposium cum workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" organized by Department of Bioinformatics, Science campus, Alagappa University, Karaikudi	Effect of lupeol on insulin receptor and glucose transporter 4 expression in adipose tissue of high fat diet and sucrose – induced type -2 diabetic rats.  <i>In silico</i> analysis of Brain penetrant inhibitor against Dual Leucine zipper kinase (DLK) – a Potential Alzheimer's target.  <i>In silico</i> analysis of Elephantiasis inhibitors against UDP-galactopyranosemutase (UDP)	20-23, Feb 2018
6.	National symposium cum workshop on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" organized by Department of Bioinformatics, Science campus, Alagappa University, Karaikudi	Pharmacophore modeling and atom-based 3D QSAR studies on damantanediperazine 3.47 derivatives as Nucleoprotein inhibitor.	12-15, Feb 2019
7.	9 <sup>th</sup> National conference on Natural Sciences Organized by Bose Science Society at Pushkaram College of Agriculture Sciences, Pudukkottai, and Tamil Nadu	Identification of potential inhibitor for COX-2 against Breast cancer	24-Aug-2019

8.	International conference on Environmental and Life Science (ICELS) held in Putrajaya, Malaysia	High Throughput Virtual screening and Molecular dynamics studies for RACK1 inhibitor against Small Cell Lung Cancer	03-Sep-2019
9.	International conference on Advanced Materials for sustainable energy and sensors organized by Department of Physics, Alagappa University	Anti-Cancer effect of Tangeretin against HepG2 cells- An <i>In vitro</i> study	16-17, Sep 2019
10.	4 <sup>th</sup> Annual Conference of the Society for the Study of Xenobiotics (SSX-2019), organized by IISc, Bangalore	<i>In vitro</i> and <i>In silico</i> investigation on Identification of bioactive compounds and potential inhibitor for Breast cancer from <i>Musa sapientum</i> peel.	18-21, Sep 2019
11.	World Congress on Leptospirosis organized by ICMR- RMRC jointly with WHO at Port Blair, Andaman & Nicobar Island, India	Identification of potential inhibitor for Leptospirosis – A computational approach	18-19, Nov 2019
12.	International conference on "Recent Trends in Bioplastics, 2019 conducted by Department of Microbiology, Science Campus, Alagappa University	Identification of Potential inhibitor against deadly disease – Ebola Virus: A Computational approach	9-10, Dec 2019
13.	International conference on Structural Bioinformatics and Computer Aided Drug Design – 2019 (ICSBCADD – 2019)	Anti-carcinogenic efficacy of Tangeretin in Liver cancer – An <i>In-silico</i> approach.	11-13, Dec 2019
14.	International Conference on Drug Discovery (ICDD – 2020) organized by BITS, Pilani, Hyderabad	A Computational approach to discover inhibitor for TNBC.	29 Feb – 2 March, 2020
15.	International Conference on Antimicrobial Resistance & Microbiome Under Changing Climate (AMRMIC 2022) organized by Department of Microbiology, Pondicherry University, India	Pharmacological efficacy of <i>Adansonia digitata</i> bark – An <i>In vitro</i> and <i>In silico</i> studies.	10-12 Oct, 2022
16.	International conference on Structural Bioinformatics and Computer Aided Drug Design – 2022 (ICSBCADD – 2022) organized by the Department of Bioinformatics, Alagappa University	Identification of potential plant-based inhibitor against Scrub typhus through Computational approaches  Identification of potential inhibitor against hepatocellular carcinoma through <i>in silico</i> approach	21-25, Nov, 2022
17.	4 <sup>th</sup> International conference on "Recent Trends in Microbiology (RTM – 2023)" conducted by Department of Microbiology,	Evaluation of Biological Activity and <i>In Silico</i> Molecular Docking and Dynamics Studies of <i>Adansonia Digitata</i> against Multidrug-Resistant Bacteria  Molecular docking and dynamics studies of phytochemicals against targeted pathogenic microbes	5-6, Jan 2023

	Science campus, Alagappa University	Identification of potential plant-based inhibitors against skin cancer through Computational approaches	
18.	Tamil Nadu Former Chief Minister Kalaingar M. Karunanidhi Centenary Function – 2023 organized by Alagappa University &The Tamil Nadu State Council for Higher Education (TANSCHE)	The Advancement of Science and Technology under the regime of M. Karunanidhi	09-10-2023
19.		Network biology approach to unravel the role of collagenase from <i>Clostridium histolyticum</i> interacting with human	27-09-24
20.		Interaction of eugenol with phenylalanine ammonia-lyase (PAL) of Tomato infected with Tomato yellow leaf curl virus (TYLCV) a network biology approach	27-09-24
21.		Effects of microplastics in marine organisms and its consequences in pescatarians	27-09-24
22.	33 <sup>rd</sup> Annual Meeting of Indian National Association for Study of the Liver (INASL - 2025), Chandigarh, India	Boldine protects against 5-fluorouracil induced oxidative stress mediated liver injury and inflammation in Wistar rats. Journal of Clinical and Experimental Hepatology, 2025; 15(1): 103075.	7 <sup>th</sup> – 10 <sup>th</sup> August 2025
23.		Ethyl gallate concurrent treatment attenuates 5-fluorouracil induced liver injury in Wistar rats. Journal of Clinical and Experimental Hepatology, 2025; 15(1): 103076.	
24.	International Conference on AI for Genomics and Drug Discovery, [ICAGDD - 2026], organized by Bharathiar University, Coimbatore	Inhibition of Signal Transducer and Activator of Transcription 3 (STAT3) Signaling in Osteosarcoma: A Promising Anticancer Strategy	28 <sup>th</sup> – 30 <sup>th</sup> January 2026

#### Workshop Participated

S. No	Name of the Workshop	Organizer	Year
1.	Thesis Writing and Scientific Paper Publishing	Science City, Tamil Nadu Government, Chennai	Jan 2008
2.	Chromatography and Molecular Biology Techniques	School of Biotechnology, Chemical and Biomedical Engineering, VIT University, Vellore	May 2008
3.	Patent Awareness	Patent information cell, University of Madras in association with Tamil Nadu state council for science & technology	Apr 2009
4.	The Current Trends in Clinical Genetics and Genomic Medicine	Chettinad University, approved by National Academy of Medical Sciences, India	Mar 2011

5.	Recent Advancements in PCR	Department of Industrial Biotechnology, Bharath University, Chennai	Mar 2012
6.	Ajax enabled web applications	Department of Bioinformatics, Bharath University, Chennai	Feb 2012
7.	Molecular Physiology, Therapeutics and Experimental Medicine" (MPTEM 2016)	Department of Animal Health and Management, Alagappa University	Sep 2016
8.	Data Science & Analytics	Department of Computer Science, Alagappa University	Sep 2016
9.	Gas Chromatography (GC- DMB – 2016)	Department of Microbiology, Alagappa University	Dec 2016
10.	Business Resource of solid waste management through vermin composting	Department of Animal Health and Management, Alagappa University	Mar 2017
11.	Research Publication and Anti-Plagiarism	Department of English and Foreign Languages & Centre for Technical and Academic Writing, Alagappa University	Oct 2017
12.	Commercialization Prospects of Microbial Formulates	Department of Microbiology && University Business Collaboration (UBCC), Alagappa University	Jan 2018
13.	ANA Diagnostics – IIFA	Department of Microbiology, Sri Manakula Vinayagar Medical College and Hospital, Pondicherry	Aug 2018
14.	Indigenous cow management and their value-added products	Department of Animal Health and Management, Alagappa University	Dec 2018
15.	Technical and Scholarly Writing	Centre for Technical and Academic Writing, Alagappa University	Feb 2019
16.	Cell Culture and Molecular Techniques in Research and Diagnostic Microbiology	Department of Microbiology & CRL, Sri Manakula Vinayagar Medical College and Hospital, Pondicherry	Mar 2019
17.	Mobile Apps	University Business Collaboration Centre and Department of Computer Applications, Alagappa University	Apr 2019
18.	Cancer cell culture Techniques and cell-based assays	Cancer Biology Lab of Centre for Nanoscience and Nanotechnology, International Research Centre, Sathyabama Institute of Science and Technology, Chennai	Apr 2019
19.	Research Methods and Latex	Centre for Technical and Academic Writing, Alagappa University	Jun 2019
20.	Biomedical Applications in Translational Research (BATR-2019)	Department of Biomedical Sciences, Science campus, Alagappa University	Jun 2019
21.	Water Conservation	Jal Shakti, Alagappa University	Nov 2019
22.	Poster Exhibition of Innovative Ideas and Display of Prototype Device – Innovation Ambassador Linkage	Institution's Innovation Council (IIC) and Higher Education Innovation Cell (HEIC), Alagappa University	Nov 2022
23.	Patenting and Collaborations with Industries	Industry Consultancy Wing & University	

		Business Collaboration Centre, Alagappa University	Jan 2023
24.	Current Career Opportunities for Data Science & Micro Services in IT Sector	Department of Computer Applications, Alagappa University	Mar 2023

#### Conference, Seminar, Symposium & Webinar Participated

S. No	Name of the Event	Organizer	Year
1.	Indo-Australian conference on Biotechnology in medicine	Indian Institute of Science, Bangalore	Feb 2004
2.	Awareness programme on "Applications of Radioisotopes and radiation technology for societal development	Anna University, Chennai	Jul 2004
3.	National conference on Genomics: Impact on human health	Andhra Pradesh Akademi of sciences, Hyderabad	Feb 2007
4.	National seminar on Current trends in Nanotoxicology	Department of Pharmacology and Environmental Toxicology, University of Madras, Chennai	Mar 2007
5.	Science seminar "Basic sciences: Scope and hope	University of Madras, Chennai	Aug 2007
6.	International Stem Cell Summit India	Indian Institute of Technology Madras & Lifeline Hospitals, held at IITM, Chennai	Nov 2008
7.	Seminar on Stress Management	University of Madras, Sekkizhar Campus, Chennai	Feb 2009
8.	National conference on "Recent biotechnological perspectives in human diseases and therapeutics	Bharath University, Chennai	Mar 2011
9.	International conference on Emerging trends in Bio-Engineering	Bharath University, Chennai	Mar 2011
10.	International Seminar on Fermentation Technology	Department of Industrial Biotechnology, Bharath University, Chennai	Aug 2011
11.	Faculty development programme	Department of Industrial Biotechnology, Bharath University, Chennai	Sep 2011
12.	International Fertility Colloquium 2014	Chettinad Hospital and Research Institute, Kelambakkam, Chennai	Sep 2014
13.	National Symposium on Genomics and Human Health	Department of Genetics, Institute of Basic Medical Sciences, Taramani, Chennai	Mar 2015
14.	International Conference on "Recent Trends in Biosciences" (ICRTB 2016)	Biosciences Departments, Science Campus, Alagappa University, Karaikudi	Apr 2016
15.	World Animal Day	Department of Animal Health and Management, Alagappa University	Oct 2016
16.	Faculty development (Enrichment) programme on Accreditation Quality Enhancement	Alagappa University, Karaikudi	Jan 2017
17.	National Seminar on Nanomaterials for	Department of Nanoscience and	

	Specialized Applications (NMSA - 2017) & World Standards Day	Technology, Alagappa University	Feb 2017
18.	Conference on Exploring Commercialization of Biosensors in India	Department of Bioelectronics and Biosensors, Alagappa University	Mar 2017
19.	UGC Sponsored National Conference on Trends in Microbiology (NCTM-2017)	Department of Microbiology, Alagappa University	Sep 2017
20.	World Animal Day	Department of Animal Health and Management, Alagappa University	Oct 2017
21.	International conference on "Recent Trends in Microbiology (RTM – 2019)	Department of Microbiology, Alagappa University	Jan 2019
22.	International conference on Applied Nanoscience & Nanotechnology	Department of Nanoscience and Technology, Alagappa University	Mar 2019
23.	Theme Meeting on Environmental Receptivity of Industrial Effluents and Their Influence on Marine Ecology & DAE Technologies for Water Treatment	Department of Biotechnology, Alagappa University	Aug 2019
24.	Faculty Development Programme on Outcome Based Education	IQAC and CD & DC, Alagappa University	Feb 2023
25.	Orientation Programme on Assessment and Accreditation Framework of NAAC for Dual Mode Universities	Internal Quality Assurance Cell, Alagappa University	Mar 2023
26.	International webinar on Biotechnology: Application areas and Development process	Directorate of Distance Education – Biotechnology wing, Alagappa University	May 2020
27.	International webinar on Novel approaches: Human therapy and Animal nutrition	Directorate of Distance Education – Microbiology wing, Alagappa University	May 2020
28.	National level Webinar on Learning Management system using Canvas in structure	Department of Computer Application, Don Bosco College of Arts and Science	Jun 2020
29.	Webinar on the Response of the DBT's Autonomous Institutes to COVID-19 – Part - I	India Alliance	Aug 2020
30.	Webinar on the Response of the DBT's Autonomous Institutes to COVID-19 – Part - III	India Alliance	Oct 2020
31.	DBT webinar: Showcasing Demonstrated Waste-To-Value Technologies	India Alliance	Oct 2020
32.	Webinar on Emerging diagnostics techniques in pathogen identification	Department of Genetic Engineering, SRM Institute of Science and Technology, Chennai	Oct 2020
33.	IRMI Webinar on Research costing as a tool for enabling a sustainable research environment	India Alliance	Nov 2020

#### Monographs Published

S. No	Authors	Title of the Monograph	Publisher & Year	ISBN
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1.	Langeswaran Kulanthaivel, Gowtham Kumar Subbaraj	Limonin against Hepatocellular Carcinoma". (A natural limonoid from Citrus fruits to treat Aflatoxin B1 induced Hepatocarcinogenesis and in Human hepatoma Cell line)	LAMBERT Academic Publishing GmbH & Co. KG, Germany. 2012	978-3-8484-9905-2
2.	Jagadeesan Jayaraman, Langeswaran Kulanthaivel, Gowtham Kumar Subburaj.	Diosgenin - Diosgenin against Chemical Induced Mammary Carcinogenesis and in MCF-7 Human Breast Cancer Cell Line	LAMBERT Academic Publishing GmbH & Co. KG, Germany. 2012	978-3-659-15661-8
3.	Revathy Rajendran, Gowtham Kumar Subburaj, Langeswaran Kulanthaivel	Cadmium Toxicity – Impact on reproduction. (Evaluated on edible crab <i>Scylla serrata</i> )	LAMBERT Academic Publishing GmbH & Co. KG, Germany. 2012	978-3-8473-0609-2
4.	Revathy Rajendran, Langeswaran Kulanthaivel, Gowtham Kumar Subburaj	Role of <i>Ipomoea batatas</i> (L) against male infertility	LAMBERT Academic Publishing GmbH & Co. KG, Germany. 2013	978-3-659-41875-4
5.	Perumal Srinivasan, Langeswaran Kulanthaivel	Therapeutic strategies of Diosmin – An experimental approach	LAMBERT Academic Publishing GmbH & Co. KG, Germany. 2017	978-3-330-03503-4

#### Book Edited

S. No	Title of the Book	Publisher	ISBN
1.	Cancer Versus Nutraceuticals	Nova Science Publishers	978-1-53612-529-0
2.	Advances in Therapeutics and Diagnostics of Human Diseases.	Nova Science Publishers	978-1-53615-382-8

#### Book Chapters Published

S. No	Title of the Book	Title of the Chapter	Publisher & Year	ISBN
1.	Cancer Versus Nutraceuticals	Nutraceuticals Therapeutics against Cancer	Nova Science Publishers. 2017	978-1-53612-529-0
2.	Advances in Therapeutics and Diagnostics of Human Diseases	Male reproductive toxicity and infertility	Nova Science Publishers. 2019	978-1-53615-382-8
3.	Cardiovascular and Coronary Artery Imaging.	Gene Polymorphism and the risk of coronary artery disease	Elsevier Academic Press. 2021	9780128227060
4.	Therapeutic Proteins Against Human Diseases.	Drug Targeting and its Therapeutics	Springer Nature. 2022	978-981-16-7897-4
	Handbook of Animal Models and its Uses in Cancer	Perspectives of Stem Cell Therapy: a promising	Springer Nature. 2022	

5.	Research	therapeutic for cancer model and Alzheimer's disease.		978-981-19-1282-5
6.	Handbook of Animal Models and its Uses in Cancer Research	Triple-Negative Breast Cancer (TNBC) - clinical features and therapeutic targets.	Springer Nature. 2022	978-981-19-1282-5
7.	Handbook of Animal Models and its Uses in Cancer Research	Chorioallantoic Membrane (CAM) AND IN OVA models as potential platforms for testing anti-cancer agents	Springer Nature. 2022	978-981-19-1282-5
8.	Handbook of Animal Models and its Uses in Cancer Research	Applications of Nanomedicine in animal models of cancer	Springer Nature. 2022	978-981-19-1282-5
9.	Handbook of Animal Models and its Uses in Cancer Research	Therapeutic approaches and models in retinoblastoma	Springer Nature. 2022	978-981-19-1282-5
10.	Cardiovascular and Coronary Artery Imaging. Volume II	Imaging modalities for congenital heart disease and gene polymorphism and its association with Coronary artery and cardiovascular diseases	Elsevier Academic Press. 2022	9780128219836
11.	Algae Materials: Applications Benefitting Health	Perspectives of Algae Materials 2.0	Elsevier. 2022	978-0-443-18816-9
12.	Recent Advances in Diabetes Research and Management	Diabetes and other comorbidities-microvascular and macrovascular diseases diabetes and cancer.	Springer Nature. 2023	978-981-19-0026-6
13.	Recent Advances in Diabetes Research and Management	Diabetic nephropathy: Role of genetic factors on disease progression	Springer Nature. 2023	978-981-19-0026-6
14.	Handbook of Oncobiology: From Basic to Clinical Sciences	Squamous Cell Carcinoma Predisposition Pathophysiology, Diagnosis and Treatment	Springer Nature. 2023	978-981-99-2196-6
15.	Evidence-based Functional Foods for Prevention of Age-related Diseases	Preventive Role of Nutraceutical Agents Against Aging.	Springer Nature. 2023	978-981-99-0533-1
16.	Nutrition and Obsessive Disorders	Pathophysiology of Obsessive-Compulsive Disorder	Springer Nature. 2023	9781003387893-12.
17.	Phospholipases in Physiology & Pathology	Phospholipase A <sub>2</sub> and Hepatocellular Carcinoma Progression.	Elsevier. 2023	978-0-323-95687-1
	Phospholipases in	Role of phospholipase A2 in	Elsevier. 2023	

18.	Physiology & Pathology	squamous cell carcinoma and breast cancer.		978-0-323-95687-1
19.	Reverse Engineering of Regulatory Networks in the book series Methods in Molecular Biology	Next-generation sequencing to study the DNA interaction	Springer Nature. 2024	978-1-0716-3461-5
20.	Biodegradable Polymers, Blends and Biocomposites: Trends and Applications	Economics of Bioplastics and Biobased Products	Taylor & Francis. 2024	9781032302492
21.	Pathophysiology of Obsessive – Compulsive Disorder	Nutrition and Obsessive – Compulsive Disorder: The Interplay	Taylor & Francis. 2024	9781003387893
22.	Rare Genetic Disorders	Introduction to Rare Genetic Disorders	Springer Nature. 2024	9789819993239
23.	Neuroprotective Effects of Phytochemicals in Brain Ageing	Phytochemicals and Natural Extracts, Secondary Metabolites of Plants and Improvement of Brain Function	Springer Nature. 2024	978-981-99-7269-2
24.	Genetic Syndromes – A comprehensive Reference Guide	Klinefelter Syndrome	Springer Nature. 2024	978-3-319-66816-1
25.	Genetic Syndromes – A comprehensive Reference Guide	Turner Syndrome	Springer Nature. 2024	978-3-319-66816-1
26.	Genetic Syndromes – A comprehensive Reference Guide	Clubfoot, Congenital, with or without Deficiency of Long Bones and/or Mirror-Image Polydactyly (CCF)	Springer Nature. 2024	978-3-319-66816-1
27.	Pathophysiological aspects of Proteases in Cancer	Ubiquitin specific protease 3,7 in bone cancer and squamous cell carcinoma	Elsevier. 2024	978-0-443-30098-1
28.	Biochemical Techniques for analyzing Protein – Lipid Interactions	Challenges and Opportunities for analysing Protein – Ligand Interactions	Springer Nature. 2024	978-981-97-5436-6
29.	Diabetes and Cancer: Association, Mechanism, and Therapeutic Implications	Diabetes in Cancer Survivors	Springer Nature. 2006	978-981-95-5651-9
30.		Strategies for Reducing the Risk of Diabetes and Cancer	Springer Nature. 2006	978-981-95-5651-9
31.		The Importance of Understanding the Link Between Diabetes and Cancer	Springer Nature. 2006	978-981-95-5651-9

32.	Bioactive Lipids in Human Health and Diseases	Bioactive Lipid Signaling Networks: From Inflammatory Response to Apoptotic Regulation.	Springer Nature. 2006	9780443443862
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#### Text Book Published

S. No	Authors	Book Title	Publisher Name & Year	ISBN
1.	T. Rajesh Kumar, K. Langeswaran, R. Sangeetha.	Nano Physics	New Century Book House, 2022	978-81-2344-240-2

#### Research Articles Published

S. No	Details of the Publications	Impact Factor
<b>2026</b>		
1.	Nachammai KT, Abishek K, Abinaya S, Sangavi P, Deepali Desai, <b>Langeswaran K.</b> Targeting Oncogenic STAT3 Pathways in Osteosarcoma with <i>Serratia marcescens</i> Peptides. <i>Peptide Science</i> . 2026;	1.7
2.	Nachammai KT, <b>Langeswaran K.</b> Network Pharmacology and Molecular Dynamics Simulation Reveal Therapeutic Potential of Rubia-Derived Phytocompounds Against Pneumonia. <i>Letters in Drug Design &amp; Discovery</i> . 2026;	1.6
3.	Nachammai KT, <b>Langeswaran K.</b> Integrative Computational and Experimental Approaches to <i>Hydnocarpus wightianus</i> Phytochemicals: Targeting Breast Cancer through Systems Biology, Molecular Dynamics Simulations, and In Vitro Validation in MDA-MB-231 Cells. <i>Bioorganic Chemistry</i> . 2026;	4.7
4.	Saranya V, Karthikeyan G, <b>Langeswaran K.</b> Gowtham Kumar S. Exploring the impact of Haptoglobin Gene Polymorphism on Sickle Cell Disease: Meta-Analysis and Gene Set Enrichment Study. <i>Journal of Hematology, Transfusion and Cell Therapy</i> . 2026;	1.6
5.	Sankar Ganesh P, EM. Shankar, <b>Langeswaran K.</b> Natchammai KT. Attenuation of biofilm-encoding genes and virulence attributes in clinical isolates of <i>Acinetobacter baumannii</i> by essential oil derived from <i>Myroxylon balsamum</i> . <i>Scientific Reports</i> . 2025;	3.9
<b>2025</b>		
6.	Arthina R, Karthick M, Sharmila M, Sanjay S, Shree Harini K, <b>Langeswaran K.</b> Ezhilarasan D. Protective role of boldine against 5-fluorouracil-induced nephrotoxicity: <i>In Vitro</i> and <i>In Vivo</i> approach. <i>Journal of Biochemical and Molecular Toxicology</i> . 2025; 39(12): e70636.	2.8
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8.	Swathilakshmi VA, Poonkothai M, Subashini P, Priyanka J, Nachammai K, <b>Langeswaran K.</b> Selvaraj C Kalaiarasi K. Multivariate optimization and computational insights for the effective decolorization of reactive orange 107 using <i>Rhizoclonium hieroglyphicum</i> and its sustainable reuse potential. <i>International Journal of Phytoremediation</i> . 2025; 2579144.	3.1

9.	Saranya V, Vakitha S, <b>Langeswaran K</b> , Gowtham Kumar S. Applications of Machine Learning and Multimodal Integration for Early Diagnosis of Neurodegenerative Diseases: A Comprehensive Review. World Academy of Sciences Journal. 2025; 7:115, 1-17.	0.9
10.	Mamali Das, Kiruthiga C, Nachamai KT, <b>Langeswaran K</b> . Stem-like CD4+ T Cells Mediate T-Cell State Transitions to Enhance Tumor Control and Immunotherapy Response. International Immunopharmacology. 2025; 115432.	4.7
11.	Nachamai KT, Sangavi P, Deepali Desai, Chitra Sekar, Sangeetha, <b>Langeswaran K</b> . Targeting the Core: C9ORF72 Antagonists as Pioneers in Amyotrophic Lateral Sclerosis Therapy – A Computational and Machine Learning based approach. <i>In Silico Pharmacology</i> . 2025; 13: 188.	-
12.	Sangavi P, Nachamai KT, Gowtham Kumar S, Deepali D, Chitra N, <b>Langeswaran K</b> . Decoding the Anticancer and Biofilm-Inhibiting Efficacy of <i>Adansonia digitata</i> Using Experimental, AI-Powered, and Molecular Modeling Approaches. <i>Frontiers in Molecular Biosciences</i> . 2025; 1666360.	3.3
13.	Selvaraj C, William C. Cho, <b>Langeswaran K</b> , Abdulaziz S. Alothaim, Vijayakumar R, Mani Jayaprakashvel, Deepali Desai. Artificial Intelligence in Cancer Care: Revolutionizing Diagnosis, Treatment, and Precision Medicine Amid Emerging Challenges and Future Opportunities. <i>3biotech</i> . 2005; 15: 355.	2.9
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<b>27.</b>	Sangavi P, Gowtham Kumar S, Nachammai KT, Chandrabose Selvaraj, <b>Langeswaran K.</b> Explication of Pharmacological Proficiency of Phytoconstituents from <i>Adansonia digitata</i> Bark – An <i>In vitro</i> and <i>In silico</i> Approaches. <i>Scientifica.</i> 2024; 6645824.	<b>3.1</b>
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<b>31.</b>	Sangavi P, Nachammai KT, Chandrabose Selvaraj, Gowtham Kumar S, <b>Langeswaran K.</b> Vibrational, Theoretical characterization and <i>in silico</i> investigation on Norcinnamolaurine: A natural lead for inhibiting AURKA and overcoming immune evasion in Triple-Negative Breast Cancer. <i>Journal of Biomolecular Structure and Dynamics.</i> 2024; 2437528.	<b>5.2</b>
<b>32.</b>	Santhosh Kumar Y, Gurudeva C, Sridevi G, <b>Langeswaran K.</b> , Gowtham Kumar S. Nanotechnology's Impact on Ocular Drug Delivery: A Meta-analysis-based Examination. <i>Nano Biomed Eng.</i> 2024; 16(3): 510-519.	-
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<b>34.</b>	Sivaprakasam T, Selvavinayagam, Suvaithenamudhan S, Yean K, Yong, Hemashree K, Rajeshkumar M, Kumaresan A, Arthydevi P, Kannan M, Gopalan N, Vignesh R, Amudhan M, Munusamy P, Sivasankaran, Satish Sankar, Cheedarla N, Abdul R, Anshad, Sakthivel Govindaraj, Ying Zhang, Hong Y, Tan, Marie Larsson, Saravanan S, Balakrishnan P, <b>Langeswaran K.</b> , Kamalendra Singh, Narcisse Joseph, Vijayakumar V, Siddappa N, Byrareddy, Shankar EM, Raju S. Genomic surveillance of omicron B.1.1.529 SARS-CoV-2 and its variants between December 2021 and March 2023 in Tamil Nadu, India - A state-wide prospective longitudinal study. <i>Journal of Medical Virology.</i> 2024; 96: e29456.	<b>12.6</b>
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42.	Thangam C, Rozario Cyril, Jayasree R, Santhosh Kumar Y, <b>Langeswaran K</b> , Gowtham Kumar S. Enhancement of Oral Bioavailability of Drugs through Nanotechnology: Comprehensive Review and Meta-Analysis Journal of Preventive, Diagnostic and Treatment Strategies in Medicine. 2023; 2(4): 187 –193.	-
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#### Editor/Reviewer in Journals

S. No	Name of the Journal	Editor/Reviewer
1.	Journal of Biochemical and Molecular Toxicology	Reviewer
2.	Frontiers in Veterinary Science	Reviewer
3.	Journal of Cell Biochemistry & Function	Reviewer
4.	Journal of Biomolecular Structure & Dynamics	Reviewer

5.	Journal of Computers in Biology & Medicine	Reviewer
6.	Journal of Current Enzyme Inhibition	Reviewer
7.	Journal of Applied Pharmaceutical Sciences	Reviewer
8.	Journal of Nanomedicine	Reviewer
9.	Process in Biophysics and Molecular Biology	Reviewer
10.	Scientific Reports	Reviewer
11.	Journal of Nano Trans Med	Reviewer
12.	In Silico Pharmacology	Reviewer
13.	Journal of Biologically Active Products from Nature	Reviewer
14.	Chemistry Select	Reviewer
15.	Journal of Biochemical and Molecular Toxicology	Reviewer
16.	ACS Applied Nano Materials	Reviewer
17.	The Breast Journal	Reviewer
18.	In Silico Pharmacology for Biomedicine	Reviewer
19.	Computer Methods in Biomechanics and Biomedical Engineering	Reviewer
20.	Journal of Genetic Engineering and Biotechnology	Reviewer
21.	Bioorganic Chemistry	Reviewer

## Membership in Professional Bodies

S. No	Name of the Professional Body	Membership Status
1.	Indian Association of Biomedical Scientists	Life Member
2.	National Academy of Biological Sciences	Life Member
3.	Society of Biological Chemist, India	Life Member
4.	Indian Science Congress Association	Life Member
5.	Bioinformatics & Drug Discovery Society	Life Member
6.	Bose Science Society	Life Member
7.	Infectious Disease Society of India (IDSI)	Founding Life Member

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