

Resume

Name of the Faculty–P. Shanmughavel

Designation - Professor
Department of Bioinformatics
School of Life Sciences
Bharathiar University
Coimbatore - 641046



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Current Area of Research

Computational Biology

✚ **Two to Three Specialization Areas**– Botany, Forestry

SCOPUS ID:		Researcher ID:		Google Scholar ID:		VIDWAN ID:	
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Education

D.Sc (2007) – Bharathiar University, Coimbatore, Tamil Nadu, India.
Ph.D. (1995) – Bharathiar University, Coimbatore, Tamil Nadu, India.
M.Sc. (1987) – Government Arts College, Coimbatore, Tamil Nadu, India.

Professional Experience (In Chronological Order after Ph. D. onwards)

Institution	Period	Designation	Nature of Work
Madurai Kamaraj University	1988-1989	Research Scholar	M.Phil research
Tamil Nadu Forest Dept.	1989-1992	Honorary Fellow	Bio Energy research
Dept. of Botany Bharathiar University	1992-1995	Senior Research Fellow	Doctoral research
Dept. of Botany Bharathiar University	1995-2002	Post-Doctoral Fellow	Post Doctoral Research
Chinese Academy of Sciences, Kunming	1999-2001	Visiting Scientist	Post Doctoral Research
University of Missouri, Columbia, USA	May-2009	DBT Overseas Associate	Bioinformatics Tools development

			for biological problem
Dept. of Bioinformatics, Bharathiar University	2002 - till date	Assistant Professor	Teaching and research
School of Life Sciences Bharathiar University	2006-till date	Coordinator DBT Bioinformatics centre	Teaching and research
School of Life Sciences Bharathiar University	2011-till date	Coordinator Cheminformatics UGC Innovative Programme	First introduced in India under UGC Innovative Programme
School of Distance Education Bharathiar University	2013-till date	Coordinator Bioinformatics	Teaching
Rajiv Gandhi University, Arunachal Pradesh	2014 –till date	DBT Visiting Research Professor	Visiting Research Faculty
Dept. of Bioinformatics, Bharathiar University	2015 - 2018	Associate Professor	Teaching and research
Dept. of Bioinformatics, Bharathiar University	2018 - till date	Professor	Teaching and research

Additional Responsibilities (In Bharathiar University)

1. Course Coordinator for Bioinformatics – School of Distance Education, Bharathiar University
2. Co coordinator for DBT Bioinformatics Centre – School of Life Sciences, Bharathiar University
3. Course Coordinator for Cheminformatics UGC Innovative Programme – School of Life Sciences, Bharathiar University

Awards/ Fellowships

(i) International Awards

- ❖ Cambridge Certificate for Outstanding Educational Achievement, UK, 2016
- ❖ Member - IRED - Institute of Research Engineers and Doctors, USA.,2016
- ❖ Marquis World Who is Who, 2014 by Marquis Publishers, USA.
- ❖ Senior Member-Asia Pacific Chemical, Biological & Environmental Engineering Society-Hong Kong (2011)
- ❖ ITTO Fellow (2004-2006)
- ❖ Member-FAO Network of Specialist in Forestry, Rome (1999-2000)
- ❖ Active Membership Award, New York Academy of Sciences, New York, USA, 2004

- ❖ Certificate of Membership, American Association for the Advancement of Science, 2001
- ❖ Member-IUFRO Task Force on Environmental Change (1999-2000)

(ii) National Honor/Awards

- ❖ UGC-Mid Career Award (2018-2020)
- ❖ Tamil Nadu Scientist award (TANSA 2002)
- ❖ Tamil Nadu Government Best Tamil book award (2003)
- ❖ CSIR Senior Research Fellowship (1995 – 1997)
- ❖ CSIR Research Associate ship (1997 – 2000)
- ❖ DBT-Overseas Fellowship-2010.

(iii) Other Honors/Awards

- ❖ Visited as External Expert in 4th meeting of the DBT-BIF Executive Committee 2015.
- ❖ ICMR Sub Group Committee Member – Microbicides (2009 – Till date)
- ❖ IEEE Engineering in Medicine & Biology Society - Reviewer Committee – (2009-2011)
- ❖ Member DBT syllabus committee M. Tech/ M.Sc Bioinformatics (2007 – Till date).
- ❖ Mentor-DST Inspire Programme (2010-Till date)
- ❖ Additional Advisory Committee Member(2017)
- ❖ Steering Committee for International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO-2017)
- ❖ Review Committee – Shastri Indo- Canadian Institute Programme and Fellowship grants - 2020

(IV) Scientific Leadership

- ❖ Evaluator of DBT Government Scientific Projects
- ❖ Referee for Scientific Articles, National and International Journals.
- ❖ conducted several seminars and workshops
- ❖ Prepared syllabus for M.Sc., Non Conventional Energy Sources.

Foreign Countries Visited:

Australia, Singapore, Germany, China, Thailand, United Kingdom, Zimbabwe, Zambia, Botswana, USA

Sponsored Projects

S. No	Name of Projects	Funding Agency	Fund Received In Lacks	Data of Commencement	Data of Completion
1.	<i>VelanmayilMungil</i> Book writing in Regional Language	Government of Tamil Nadu	0.25	2000	2001
2	A Digitized inventory of Tropical Timber Resources of India	International Tropical Timber Organization (ITTO), Japan	\$2900	2000	2002
3	A Database on Pulping and Paper Making Properties of Fast Growing Plantation Wood Species	UGC, New Delhi	1.0	2003	2005`
4	Development of hypothesis-generation platform for soybean research.	DBT- Christopher S. Bond Life Sciences Center, University of Missouri-Columbia,MO 65211-2060,USA.	\$5000	2009	2010
5	UGC Innovative Programme Cheminformatics	UGC, New Delhi	50.0	2012	2016
6	Molecular Interaction studies of Human Neuronal $\alpha 7$ Nicotinic Acetylcholine Receptor with Neurotoxins and Neurotransmitters	DBT, New Delhi	23.17	2010	2013
7.	Computational Identification of promoter regions in Fungal Genomes	UGC, New Delhi	10.39	2012	2015
8.	<i>In-silico</i> molecular design of anti-HIV microbicides and preclinical evolution	ICMR, New Delhi	13.85	2013	2016
9	Visiting Research Professorship Programme in NER	DBT, New Delhi	3.90	2015	2016
10	Mid CareerAward	UGC, New Delhi	10.00	1918	2020
11	Integrated meta-omics analysis to study the modulation of gut microbiota	DBT, New Delhi	25.00	2020	2023

	for better prognosis of gastroenteritis complaints (Co Investigator)				
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Research Projects Ongoing

S. No	Name of Projects	Funding Agency	Fund received	Data of Commencement
1.	Bioinformatics Infrastructure Facility	DBT, New Delhi	37.30 lacks	2006
2.	Project Coordinator	TANSCHER Research grants, Chennai	100 lacks	2019

Mentor Projects

1	An <i>In-silico</i> approach to High Altitude Pulmonary Edema	UGC, New Delhi	UGC RGNF Fellowship	2012
2	Genome wide analysis of intergenic regions from <i>Archeal genomes</i>	UGC, New Delhi	UGC RGNF Fellowship	2012
3	<i>In-silico</i> design of novel microbicides for controlling HIV and sexually transmitted diseases	ICMR, New Delhi	ICMR SRF Fellowship	2013
4	<i>In-silico</i> analysis of mitochondrial genome – its evolution and linkage to human diseases	UGC, New Delhi	UGC RGNF Fellowship	2014
5	Insights into sequence and structure based studies of Amyloid- β precursor protein for Alzheimer's disease.: An <i>insilico</i> study in context with creation of Database	UGC, New Delhi	UGC SRF	2016
6	A computational approach towards targeting Alzheimer's disease: The discovery of potential inhibitors, specific transcription factors and developing computational tool	DBT, New Delhi	DBT-SRF	2016
7	An ANN approach to conglomerate Monomeric protein domains and	DBT, New Delhi	DBT-SRF	2017

	developing web server for structural prediction			
9	Peptide Library Construction	UGC, New Delhi	UGC RGNF Fellowship	2016
10	Identification of Secretary Proteins in Malaria Parasites using Next Generation Sequencing and Immunoinformatics Approach	ICMR, New Delhi	ICMR SRF Fellowship	2019
11	<i>In silico</i> analysis of certain functionally important genes between tuberculosis and its comorbidities	ICMR, New Delhi	ICMR RA Fellowship	2019
12		DST, New Delhi	DST-PURSE Fellowship	2020

Research Guidance

Ph.D. : Completed – 23; Ongoing - 7;
M. Phil.: Completed - 26; Ongoing – Nil
M. Sc. : 61
PG Diploma – 49

Research Publications

Journals:

International: 95

National: 78

Reports: 03

Conference Papers(Presented):

International: 01

National: 06

Books:21

Book Chapters: 26

Citation

Total Number of Citations : 1191

h-index – 19

Five Significant/Recent Publications

- S. GracyFathima, P. **Shanmughavel**, D.velmurugan, Sameer Hassan, KaveriKrishnasamy, Sivasubramanian Srinivasan, Computational Analysis Of Drug Like Candidates Against Neuraminidase Of Human Influenza A Virus Subtypes, Informatics in Medicine Unlocked (2020), Volume 8, 100284. <https://doi.org/10.1016/j.imu.2019.100284>.
- A. Muthusankar, P. **Shanmughavel**, From EST to structure models for functional inference of APP, BACE1, PSEN1, PSEN2 genes, Bioinformation (2019),V15(10), pp 760-771.
- S. Shobana, T. Lokesh, M. Gowdham, Praveen Kumar, P. **Shanmughavel**, Rv0807, A Putative Phospholipase A2 Of Mycobacterium Tuberculosis; Elucidation Through Sequence Analysis, Homology Modeling, Molecular Docking And Molecular Dynamics Studies Of Potential Substrates And Inhibitors, Journal of Biomolecular Structure & Dynamics (2019), **Taylor & Francis**. doi.org/10.1080/07391102.2019.1677499.
- M. Gowtham, Meyyazhagan A, D. Ruban, **P. Shanmughavel**, Genome-Wide Analysis Of Excretory/Secretory Proteins In Trypanosoma Brucei Brucei: Insights Into Functional Characteristics And Identification Of Potential Targets By Immunoinformatics Approach, Genomics (2018), doi: 10.1016/j.ygeno.2018.07.007.
- Ancha V. Baranova, Mikhail Yu. Skoblov, Elena N. Voropaeva, **P. Shanmughavel** and Yuriy L. Orlov, Medical Genetics Studies At BGRS Conference Series, BMC Medical genetics (2019), 20 (Suppl 1) pp1-3.