

Faculty Profile of Dr. P. Shanmughavel



Dr. P. Shanmughavel

Professor

Department of Bioinformatics

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Mobile No:9486446101

Research Area

- Botany
- Computational Biology

Education & Career

Education

D.Sc.,

Subject : Botany

Institution : Bharathiar University
Affiliated University : Bharathiar University
Year of Award : 2007

PGDIT.,

Subject : Information Technology
Institution : Manonmanium Sundaranar University
Affiliated University : Manonmanium Sundaranar University

Year of Award : 2003

Ph.D.,

Subject: Botany
Institution: Bharathiar University
Affiliated University: Bharathiar University
Year of Award: 1995

M.Phil.,

Subject: Botany
Institution: Madurai Kamaraj University
Affiliated University: Madurai Kamaraj University
Year of Award: 1989

M.Sc.,

Subject: Botany
Institution: Govt. Arts College, Coimbatore
Affiliated University: Bharathiar University
Year of Award: 1987

B.Sc.,

Subject: Botany
Institution: Gobi Arts College, Gobi
Affiliated University: Bharathiar University
Year of Award: 1985

Career

At Bharathiar University (Reverse Order)

Professor: 2018 to Till Date

Associate Professor: 2015 to 2018

Assistant Professor: 2005 to 2015

Post-Doctoral Fellow : 1995 to 2002 at Dept. of Botany, Bharathiar University

Senior Research Fellow: 1992 to 1995 at Dept. of Botany, Bharathiar University

Past Experience

DBT Overseas Associate : 2009 at University of Missouri, Columbia, USA

Visiting Scientist: 1999 to 2001 at Chinese Academy of Sciences, Kunming

Honorary Fellow: 1989 to 1992 at Tamil Nadu Forest Department, Chennai

Research Scholar: 1988 to 1989 at Madurai Kamaraj University, Madurai

AWARDS

Awarding agency: Cambridge

Country: UK

Purpose of award: Outstanding Educational Achievement

Year of Award: 2016

Awarding agency: Marquis World Who is Who

Country: USA

Purpose of award: Outstanding Publication

Year of Award: 2016

Awarding agency: New York Academy of Sciences

Country: USA

Purpose of award: Active Membership Award

Year of Award: 2004

Awarding agency: American Association for the Advancement of Science

Country: USA

Purpose of award: Certificate of Membership

Year of Award: 2001

Awarding agency: UGC

Country: India

Purpose of award: Mid-Career Award

Year of Award: 2018-2020

Awarding agency: Tamil Nadu Scientist Award (TANSA)

Country: India

Purpose of award: Contribution to the Plantation Forestry

Year of Award: 2002

Awarding agency: Tamil Nadu Government Best Tamil book award

Country: India

Purpose of award: Best Book on Regional Language

Year of Award: 2003

Awarding agency: CSIR

Country: India

Purpose of award: Senior Research Fellowship

Year of Award: 1995-1997

Awarding agency: CSIR

Country: India

Purpose of award: Research Associate ship

Year of Award: 1997-2000

Awarding agency: DBT

Country: India

Purpose of award: Overseas Fellowship

Year of Award: 2010

MEMBERSHIPS

Professional Bodies

Organization : Asia Pacific Chemical, Biological & Environmental Engineering Society – Hong Kong

Type of Membership: Senior Member

Period: 2011

Organization : FAO Network of Specialist in Forestry - Rome

Type of Membership: Senior Member

Period: 2000

Organization : IUFRO Task Force on Environmental Change

Type of Membership: Member

Period: 1999-2000

Organization : ICMR- Microbicides

Type of Membership: Sub Group Committee Member

Period: 2009-till date

Organization : IEEE Engineering in Medicine and Biology Society

Type of Membership: Reviewer Committee

Period: 2009-2011

Organization : DBT syllabus committee M.Tech / M.Sc Bioinformatics

Type of Membership: Member

Period: 2007-till date

Organization : DST Inspire Program

Type of Membership: Mentor

Period: 2010-till date

Organization : Steering Committee for International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO)

Type of Membership: International Review Committee

Period: 2017

Organization : Shatri Indo- Canadian Institute Programme and Fellowship

Type of Membership: Review Committee

Period: 2020

Academic Bodies

Organization : Institute of Research Engineers and Doctors (IRED), USA

Type of Membership: Member

Period: 2016

Organization : Additional Advisory Committee Member

Type of Membership: Member

Period: 2017

VISITS

Sl.No. : 1

Country Visited : Australia

Duration of Visit : 5 days

Month and Year : August, 2014

Purpose of Visit : Paper presentation

Sl.No. : 2

Country Visited : Singapore

Duration of Visit : 3 days

Month and Year : December

Purpose of Visit : Attended Conference

Sl.No. : 3

Country Visited : USA (Columbia)

Duration of Visit : 3 months

Month and Year : May-July, 2009

Purpose of Visit : Visited University of Missouri for Collaborative Research

Sl.No. : 4

Country Visited : Germany

Duration of Visit : 10 days

Month and Year : July, 2005

Purpose of Visit : Delivered lecture at University of Leipzig

Sl.No. : 5

Country Visited : China

Duration of Visit : 1 Year

Month and Year : August, 2001

Purpose of Visit : Visited for collaborative research

Sl.No. : 6

Country Visited : Thailand

Duration of Visit : One week

Month and Year : January, 2000

Purpose of Visit : Visited for collaborative research

Sl.No. : 7

Country Visited : China

Duration of Visit : 1 year
Month and Year : January, 2001
Purpose of Visit : Visited for collaborative research

Sl.No. : 8

Country Visited : China
Duration of Visit : 3 Months
Month and Year : December, 1999
Purpose of Visit : Visited for collaborative research

Sl.No. : 9

Country Visited : China
Duration of Visit : 1 Month
Month and Year : August, 1999
Purpose of Visit : Visited Chinese Academy of Sciences for collaborative research

Sl.No. : 10

Country Visited : United Kingdom
Duration of Visit : 1 week
Month and Year : May, 1997
Purpose of Visit : Visited for collaborative research

Sl.No. : 11

Country Visited : Zimbabwe
Duration of Visit : 1 week
Month and Year : May, 1997
Purpose of Visit : Delivered Lecture

Sl.No. : 12

Country Visited : Zambia
Duration of Visit : 1 week
Month and Year : June 1997
Purpose of Visit : Conference tour

Sl.No. : 13

Country Visited : Botswana
Duration of Visit : 1 week
Month and Year : June, 1997
Purpose of Visit : Conference tour

COLLABORATORS

New accordion content

OTHERS

New accordion content

Projects

ONGOING

COMPLETED

Funded Projects

1. TN-GOV

Title of the project : *Velanmayil Mungil* Book writing in Regional Language

Funding Agency : Government of Tamil Nadu

Amount : 0.25

Duration : 2000 - 2001

2. ITTO

Title of the project : A Digitized inventory of Tropical Timber Resources of India

Funding Agency : International Tropical Timber Organization (ITTO), Japan

Amount : 2900 USD

Duration : 2000 - 2002

3. UGC

Title of the project : A Database on Pulping and Paper Making Properties of Fast Growing Plantation Wood Species

Funding Agency : UGC, New Delhi

Amount : 1.0

Duration : 2003 - 2005`

4. DBT

Title of the project : Development of hypothesis-generation platform for soybean research

Funding Agency : DBT- Christopher S. Bond Life Sciences

Center University of Missouri- Columbia Columbia, MO 65211-2060,USA

Amount : \$5000

Duration : 2009 - 2010

5. ICMR

Title of the project : *In-silico* design of novel microbicides for controlling HIV and sexually transmitted diseases

Funding Agency : ICMR, New Delhi

Amount :

Duration : 2010 - 2012

6. UGC

Title of the project : UGC Innovative Programme Cheminformatics

Funding Agency : UGC, New Delhi

Amount : RS. 50.0 lakhs

Duration : 2012 - 2016

7. DBT

Title of the project : Molecular Interaction studies of Human Neuronal $\alpha 7$ Nicotinic Acetylcholine Receptor with Neurotoxins and Neurotransmitters

Funding Agency : DBT, New Delhi

Amount : 23.17

Duration : 2010 – 2013

8. UGC

Title of the project : Computational Identification of promoter regions in Fungal Genomes

Funding Agency : UGC, New Delhi

Amount : Rs. 10.39 lakhs

Duration : 2012 - 2015

9. ICMR

Title of the project : *In-silico* molecular design of anti-HIV microbicides and preclinical evolution

Funding Agency : ICMR, New Delhi

Amount : Rs. 13.85 lakhs

Duration : 2013 - 2016

10. DBT

Title of the project : Visiting Research Professorship Programme in NER

Funding Agency : DBT, New Delhi

Amount : Rs. 3.90 lakhs

Duration : 2015 - 2016

Departmental Projects

1. TANSCHÉ

Title of the project : P. Shanmughavel

Funding Agency : TANSCHER Research grants, Chennai

Amount : 2021

Duration : Project Coordinator - 2019

Research Guidance

- [POST-DOC](#)
- [PH.D.](#)
- [M.PHIL.](#)
- [PG](#)

Tab 1 Content

ONGOING

COMPLETED

A. Nicodemus

Title of the Thesis : Geographic variation and Genetic control of growth, Form, wood & reproductive traits in *Casuarina equisetifolia* forst

Year of Award: 2005

M.Parthiban

Title of the Thesis : A Structural insight towards Human neuronal $\alpha 7$ Nicotinic Acetylcholine Receptor in response to Neurotoxins and neurotransmitter

Year of Award:2009

Sudheer Sivasankaran Menon

Title of the Thesis : Computational Identification of promoter regions in fungal genomics

Year of Award:2011

C. Nilavamuthan

Title of the Thesis : Study on System approaches for Drug Repurposing with Semantic Web Technologies

Year of Award:2011

S.Sivashankari

Title of the Thesis : Functional annotation of Human hypothetical Proteins

Year of Award:2011

R. Radhika

Title of the Thesis : *Insilico* design of novel microbicides for controlling HIV and sexually transmitted diseases

Year of Award: 2012

C. Gayathri Devi

Title of the Thesis : An *Insilico* approach to High Altitude Pulmonary Edema

Year of Award: 2012

S. Arun Meena

Title of the Thesis : Genome wide analysis of intergenic regions from Archeal genomes

Year of Award:2012

G. Karthik Ganesh

Title of the Thesis : Invitro and *Insilico* Study on AGT Gene M235T and T174M Polymorphism in Earlier and Later Hypertension of CKD Patients

Year of Award:2012

A.Kandavelmani

Title of the Thesis : *In silico* comparative genomic analysis of Mycoplasma SPP for novel drug target identification

Year of Award:2014

S.Anandakumar

Title of the Thesis : *Insilico* analysis of mitochondrial genome – its evolution and linkage to human diseases

Year of Award:2014

R.Sathish Kumar

Title of the Thesis : A computational approach towards targeting Alzheimer's disease: The discovery of potential inhibitors, specific transcription factors and developing computational tool

Year of Award:2014

V.Lisina

Title of the Thesis : A Structural Insight Study of Nucleocapsid P7 Domain - Hiv Type 1 with Carbamates and Thioesters Derivatives for HIV Inhibitors

Year of Award:2015

Ruchi Jain

Title of the Thesis : Reverse Vaccinology approach towards developing epitope based vaccines for human respiratory syncytial virus.

Year of Award: 2015

A.Muthu Sankar

Title of the Thesis : Insights into sequence and structure based studies of Amyloid- β precursor protein for Alzheimer's disease.: An *insilico* study in context with creation of Database

Year of Award: 2016

Grace Ratna Roy

Title of the Thesis : An Insilico approach to high altitude Cerebral Edema

Year of Award: 2017

M.Beutline Malgija

Title of the Thesis : Gene expression and gene regulatory network data integration-An insight into molecular mechanism of cardiovascular disease

Year of Award: 2017

P.Perumal

Title of the Thesis : Bioinformatics characterization of Quorum sensing proteins and outer membrane enzymes from Salmonella Typhi

Year of Award: 2017

E.Murugesh

Title of the Thesis : An ANN approach to conglomerate Monomeric protein domains and developing web server for structural prediction

Year of Award: 2018

D.Ruban Durairaj

Title of the Thesis : Insilico studies on Multidrug Resistance of Mycobacterium Tuberculosis

Year of Award: 2018

Princy.V

Title of the Thesis : Structural Investigation Of Membrane Bounded And Cytoplasmic Kinase Receptor To Control Bacterial Pathogenicity Of Salmonella Typhi Via Quorum-Sensing Behaviors At The Molecular Boundary

Year of Award: 2019

S.R.Suganya

Title of the Thesis : An Insilico Drug Discovery For Parkinson's Disease And Target Based Tool Development

Year of Award: 2019

R.Madhu Pearl

Title of the Thesis : The role of chaperone's in *Mycobacterium tuberculosis* – An *insilico* approach

Year of Award: 2019

ONGOING

COMPLETED

C.Gayathri Devi

Title of the Thesis : Molecular modeling of human β_2 adrenergic receptor and its interaction with Salmeterol & Nifedipine - An Insilico approach to High Altitude Pulmonary Edema

Year of Award: 2007

A.Kandavelmani

Title of the Thesis : Comparative Genome analysis-Mycoplasma

Year of Award: 2007

R.Radhika

Title of the Thesis : Preparation and Characterization of biopolymeric Nanoparticles used in Drug Delivery

Year of Award: 2007

N.B.Santhanakrishnan

Title of the Thesis : Homology modeling of alpha Conotoxins from different Conus spp

Year of Award: 2007

R.Seenivasan

Title of the Thesis : Viral protein R from Human immunodeficiency viruse (HIV-1) predicted by comparative modeling using modeller8V1

Year of Award: 2007

S.Anandakumar

Title of the Thesis : Computational Approach of 3D Structure Prediction for Annotated Medicinal Plant Proteins Using Homology Modeling

Year of Award: 2008

P.Indhumathi

Title of the Thesis : MolBuild – Tool For Protein And Nucleotide Structure Visualization

Year of Award: 2008

V.P Selvee

Title of the Thesis : Modeling and evolutionary analysis of cysteine Rich secretary proteins

Year of Award: 2008

G. Varatharaju

Title of the Thesis : Insilico docking method for common drug validation of plant derived molecules for the treatment of MALARIA targeting plamesin in Plasmodium Falciparum and Plasmodium Vivax

Year of Award: 2008

V.Saravanan

Title of the Thesis : Small Interference RNA design tool

Year of Award: 2008

A.K.Amutha

Title of the Thesis : Docking and Toxicity prediction of genistein analogue with receptor protein P13K

Year of Award: 2008

A.Muthu sankar

Title of the Thesis : Structural studies on Human NDRG2 protein and their interaction With Natural &Synthetic compounds: a novel drug target for Alzheimer's disease

Year of Award: 2009

P.Lakshmipriya

Title of the Thesis : Insilico docking of gemcitabine with human RNR to inhibit the tumor growth

Year of Award: 2009

R.Mohana Priya

Title of the Thesis : Insilico comparative analysis of halophilic chloride ion pump and enzymes

Year of Award: 2009

I.R.Oviya

Title of the Thesis : Insilico mining of SSR markers from EST's of bamboo species

Year of Award: 2009

T. Lalitha

Title of the Thesis : Screening and docking of phytochemical compounds as target against tuberculosis

Year of Award: 2010

M. Deepa

Title of the Thesis : An insilico approach for the treatment of Glioblastoma multiforme

Year of Award: 2010

V. Radha

Title of the Thesis : A structural and mutational study of muscular

dystrophy protein

Year of Award: 2010

A. Jayanthi

Title of the Thesis : Simulation of colorectal cancer pathway using anticancer compounds for β -catenin

Year of Award: 2010

E.Vinoth Kumar

Title of the Thesis : Computational Analysis of Human Genome using Codon Usage Mapper-A Computational Genome Text Analysis Tool

Year of Award: 2011

E.Sindu

Title of the Thesis : A Computational analysis of expressed sequence TAGs(ESTs) from *Labeo Rohita*

Year of Award: 2011

Sandya

Title of the Thesis : Insilico Analysis of Non-Coding Regions in three complete genomes of *Plasmodium* species

Year of Award: 2011

Suji

Title of the Thesis : Structural studies on phospholipases c virulence proteins towards the development of specific epitopes of mycobacterium tuberculosis

Year of Award: 2011

Amit Patidar

Title of the Thesis : A Peptide Based mutational studies towards Breast cancer

Year of Award: 2012

R.Vinothkumar

Title of the Thesis : Development of novel *Trypanosoma Brucei* RNA editing ligase 1(REL 1) inhibitors using in silico approach.

Year of Award: 2012

Kanagaraj

Title of the Thesis : Molecular docking and Dynamics studies on Diphtheria toxin protein to Identify novel ligands for Diphtheria disease.

Year of Award: 2016

ONGOING

COMPLETED

S.Angel Kirubhakaran

Title of the Thesis : Screening of Natural Compounds against MDM2, BCL2, HER2 targets of Breast Cancer

Year of Award: 2020

S.Indra

Title of the Thesis : Exploring Mycobacterial Lectins as Potential Drug Targets and Vaccine candidates: An *Insilico* approach

Year of Award: 2020

B.Ajithkumar

Title of the Thesis : Pharmacophore modeling and virtual screening studies to identify the potential inhibitors for NS2B-NS3 and NS3 protease of Zika virus

Year of Award: 2019

M.Karthika

Title of the Thesis : High throughput screening of active compounds of ginger against Urease B protein for understanding gingers effect over Helicobacter Pylori's infections in Human Gut

Year of Award: 2019

Keerthy

Title of the Thesis : Structural analysis and comparative modeling

Year of Award: 2016

Baskaran

Title of the Thesis : Computational Studies on inhibitors specificity, interaction, and activity with human RNR.

Year of Award: 2016

Meenudas

Title of the Thesis : Active site lead molecular design for Alzheimer's disease

Year of Award: 2013

Sajetha D S

Title of the Thesis : An *insilico* approach for vaccine designing of human respiratory syncytial virus (HRSV)

Year of Award: 2013

Praveen kumar K

Title of the Thesis : Identifying inhibitor of NEDD8-activating enzyme for cancers

Year of Award: 2013

Avinash S

Title of the Thesis : Development of small molecule inhibitor to Beta-2 adrenergic receptor involved in Asthma through drug design studies

Year of Award: 2013

Neenu.C.Kurup

Title of the Thesis : Insilico design of antagonist for retinoblastoma eye cancer

Year of Award: 2012

Dhivya M

Title of the Thesis : Docking studies on diseased protein responsible for Paralysis

Year of Award: 2012

Aswathy Rajan M

Title of the Thesis : CRISPR survey on Halophilic Archaea

Year of Award: 2012

Prabha R

Title of the Thesis : Identification of potent antifungal plant compound against alkaline proteinase of *Aspergillus Fumigatus* by screening approach based on pharmacokinetics and molecular docking

Year of Award: 2012

M.Manimalar

Title of the Thesis : *Insilico* screening of synthetic Agonists and their binding with peroxisome proliferator-Activated receptor (PPAR- Gamma as therapeutics in type II Diabetes mellitus)

Year of Award: 2011

Amit Patidar

Title of the Thesis : *Insilico* molecular Modeling and Docking Studies of Lymphocyte specific Protein Tyrosine Kinase LCK – A newfangled drug target in human T-cell Leukemia

Year of Award: 2011

M.Mohamed Yaser

Title of the Thesis : Protein-Ligand Database of *Homo sapiens*

Year of Award: 2011

K.Malligarajan

Title of the Thesis : Phylogenetic Analysis on DNA Topoisomerase I

Year of Award: 2011

S.Azhagarasan

Title of the Thesis : Mutational Analysis of FOXP2 Protein for Schizophrenia Disease

Year of Award: 2011

J.Asmin

Title of the Thesis : *Insilico* Analysis of Pectate Lyase Protein Sequences from different source organisms

Year of Award: 2011

R.Banupriya

Title of the Thesis : Hospitality and Medical Services Databases

Year of Award: 2011

B. Divyalaksmi

Title of the Thesis : Screening of Natural Compounds as inhibitors for epigenetic Drug targets for Treatment of Cancer – An *insilico* Approach

Year of Award: 2010

Murugesh Easwaran

Title of the Thesis : Quantum Physics in the pursuit of Happiness

Year of Award: 2010

E.Vinoth Kumar

Title of the Thesis : Molecular Docking analysis of Aspirin and its analogues on the Cyclooxygenase enzyme & Phylogentic analysis of Cyclooxygenase enzyme

Year of Award: 2010

S.G.Rethina Malliga

Title of the Thesis : Modeling of ABSCISIC Acid Network in Sugarcane to increase the yield during Drought

Year of Award: 2010

Lalitha Sunder

Title of the Thesis : Screening and Docking of 2, 4 substituted Benzylidene anabaseine with Human alpha (7 Nicotinic Acetylcholine receptor)

Year of Award: 2009

G.Thamarai Selvi

Title of the Thesis : *Insilico* Modeling, Simulation and Docking Analysis of HDAC3 over expressed protein in breast cancer

Year of Award: 2009

N.Deepa

Title of the Thesis : ASAP-A Tool for Analysis of Protein Sequence and Antigenicity Prediction

Year of Award: 2009

Rojith Xavier

Title of the Thesis : Structural analysis and comparative modeling of Serpinase_enzyme

Year of Award: 2008

S.Anitha

Title of the Thesis : Molecular Docking mode of HIV-1 Reverse Transcriptase with Ligand Ritonavir

Year of Award: 2008

M.Vanaja

Title of the Thesis : Genome rearrangement in *Bacillus anthracis* and *Basillus subtilis*

Year of Award: 2008

C. Akilan, K. Revathi and K. Saenthan

Title of the Thesis : Structural prediction of ROP18 in Toxoplasma Gondii and common Drug validation of Toxoplasmosis and Malaria by in silico docking method

Year of Award: 2008

A.Anbarasan

Title of the Thesis : Modeling and Docking of Chemerin, A Chemo-attractant Protein and ChemR23 G-Protein Coupled Receptor

Year of Award: 2007

V.srividhya

Title of the Thesis : Quatum Mechanical Studies of structures and interaction Energies of Non-canonical RNA base pairs

Year of Award: 2007

R. Bhuvaneswari

Title of the Thesis : Phylogenetic analysis of Cancer protein BRCA 1

Year of Award: 2007

R. Usharani

Title of the Thesis : Gene prediction and its structural analyses

Year of Award: 2007

M. Hemavalle

Title of the Thesis : A sequence data analysis of neurological diseases and disorders

Year of Award: 2007

M. Jayananth

Title of the Thesis : Structure prediction of resil drome Pro – resilin
Drosophila melanogaster

Year of Award: 2007

P.P. karthikeyan

Title of the Thesis : Insilico docking studies on inhibitors of Galanin
receptor gallon

Year of Award: 2007

V.S. Subhashini

Title of the Thesis : Gene annotation of *Saccharomyces cerevisiae*
chromosome

Year of Award: 2007

S. Anandakumar

Title of the Thesis : Structure prediction of “VIF protein” in HIV-1 by
comparative modeling

Year of Award: 2007

M. Rajalingam

Title of the Thesis : Study of functional genomics for hypothetical proteins
of Influenza A virus

Year of Award: 2007

M. Prabavathi

Title of the Thesis : *Insilico* analysis of thioredoxin protein structure of
Triticum aestivum (WHEAT)

Year of Award: 2007

G. Geethamane

Title of the Thesis : Homology Modeling and *insilico* analysis of Gabaa
receptor alpha 1 Subunit

Year of Award: 2006

S. Suresh Kumar

Title of the Thesis : Homology modeling of alpha conotoxin from different
conus species and its docking on AchBP of *Aplysia colifernica*

Year of Award: 2006

Priya Swarup

Title of the Thesis : Proteomic & phylogenetic analysis of CNGA3 & CNGB3 genes involved in causing Achromatopia

Year of Award: 2006

Dr. Jyotsna Sundar

Title of the Thesis : Proteomic analysis of rA gene in *Porphyromonas gingivalis* involved in causing gum line

Year of Award: 2006

T. Balasaravanan

Title of the Thesis : An In silico approach for the suppression of Coumarate CoA ligase (4CC) activity

Year of Award: 2006

J. George

Title of the Thesis : Rational drug designing to neutralise the Shigella like toxin of E.coli 0157:H7 John

Year of Award: 2006

V. S. Rathika

Title of the Thesis : Genomic and proteomic study of TPO gene with respect to Hyperthyroidism

Year of Award: 2006

K. Vanaja

Title of the Thesis : Genomic and proteomic analysis of TSHB gene in Hyperthyroidism

Year of Award: 2006

Mrs T. Vishnupriya

Title of the Thesis : Computational studies on inhibitors specificity, interaction, and activity with matrix metalloprotease

Year of Award: 2006

S. Santosh Kannan

Title of the Thesis : Analysis of specific protein sequence of hemagglutinin in *Pasteruella multocida* B

Year of Award: 2006

K.B. Pavithra

Title of the Thesis : Database of cancer

Year of Award: 2006

J. Jessin Janice

Title of the Thesis : Database of Aids

Year of Award: 2006

P. Nagarajan

Title of the Thesis : Anti Cancer drug Database

Year of Award: 2006

Anandakumar

Title of the Thesis : Anti Cancer drug Database

Year of Award: 2006

P. Archana

Title of the Thesis : Database of Antibiotics

Year of Award: 2006

G. Geethamane

Title of the Thesis : Homology modeling and *insilico* analysis of GABAA receptor Alpha 1 subunit

Year of Award: 2005

T. Ehilmathi

Title of the Thesis : Digitalization and automation of tropical forest biomass

Year of Award: 2004

M. Krishnaveni

Title of the Thesis : Comparative modeling of Hfq protein of *E-coli*

Year of Award: 2003

Research Publication

- [International](#)

- [National](#)
- [Patents](#)
- [Conferences](#)
- [Books/Chapters](#)
- [Database](#)

2021

2020

1. Insilico analysis of autoinhibited parkin catalytic domain with Phytochemicals from Ethanolic Extract of *Crescentia Cujete*
Anitha.P, Praveen Kumar.K, **Shanmughavel.P**, Nazeema.T.H, Lalitha.G
Bioinformation
2. Computational analysis of drug like candidates against Neuraminidase of Human Influenza A Virus subtypes
Gracy Fathima Selvaraj, **Shanmughavel P**, Devadasan velmurugan, Sameer Hassan, Kaveri Krishnasamy, Sivasubramanian Srinivasan
Informatics in Medicine Unlocked
3. Screening of curcumin analogues targeting Sortase A enzyme of *Enterococcus faecalis*: a molecular dynamics approach
Muthusaravanan Sivaramakrishnan, Vivek Jagadeesan Sharavanan, D.Ruban Durairaj, Kumaravel Kandaswamy, **Shanmughavel P**, Ram Kothandan
Journal of Proteins and Proteomics
4. Medical genetics studies at BGRS conference series
Ancha V. Baranova, Mikhail Yu. Skoblov, Elena N. Voropaeva, **P Shanmughavel** and Yuriy L. Orlov
BMC Medical genetics
5. From EST to structure models for functional inference of APP, BACE1, PSEN1, PSEN2 genes

Muthusankar Aathi, **Shanmughavel P**

Bioinformation

6. Comparative Genomics of Mycoplasma: Insights on Genome Reduction and Identification of Potential Antibacterial Targets
Angamuthu Kandavelmani and **Shanmughavel P**
Biomed Biotechnology Research Journal
7. 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
Shobana Sundar, Lokesh Thangamani, Gowdham Manivel, Praveen Kumar, **Shanmughavel P**
Journal of Biomolecular Structure & Dynamics
8. Molecular docking, molecular dynamics and MM/PBSA studies of FDA approved drugs for Protein Kinase A of Mycobacterium tuberculosis; application insights of drug repurposing
Shobana Sundar, Lokesh Thangamani, Gowdham Manivel, Praveen Kumar, **Shanmughavel P**
Informatics in Medicine Unlocked
9. In Silico Derived Peptides for Inhibiting the Toxin-Antitoxin Systems of Mycobacterium tuberculosis: Basis for Developing Peptide-Based Therapeutics
Shobana Sundar, Madhu Pearl Rajan, **Shanmughavel P**
International Journal of Peptide Research and Therapeutics
10. Insilico Prediction of B-Cell and T-Cell Epitopes for Chaperones from Mycobacterium tuberculosis
Madhu Pearl R and **Shanmughavel P**
International Journal of Science and Research (IJSR)
11. Human Immunodeficiency Virus-Hepatitis C Virus Coinfection: A Review On Necessity Of Dietary Compounds For Antiretroviral Therapy
Suganya Selvaraj, **Shanmughavel P**

12. Virtual Screening and Molecular Docking studies on GP1 Glycoprotein Subunit of Ebola Virus
Ruban Durairaj D, Praveen Kumar K, Lokesh T, Suganya SR, Gowdham M and **Shanmughavel.P**
JSM Bioinformatics, Genomics and Proteomics
13. Genome-wide analysis of Excretory/Secretory proteins in Trypanosoma brucei brucei: Insights into functional characteristics and identification of potential targets by immunoinformatics approach
Manivel G, Meyyazhagan A, Durairaj D R, **Piramanayagam.S**
Genomics
14. Patulin interference with ATP binding cassette transferring auto inducer –2 in Salmonella typhi and biofilm inhibition via quorum sensing
Vijayababu. P, Samykannu. G, Antonyraj. C. B., Thomas. J, Narayanan. S, Basheer Ahamed. S. I., &**Piramanayagam.S**
Informatics in Medicine Unlocked
15. Collective transcriptomic deregulation of hypertrophic and dilated cardiomyopathy – Importance of fibrotic mechanism in heart failure
Beutline Malgija, Nachimuthu Senthil kumar, **Shanmughavel P**
Computational Biology and Chemistry
16. B-cell and T- cell epitope identification with stability analysis of AI-2 import ATP-binding cassette LsrA from S. typhi -In silico approach
Princy Vijayababu, Gopinath Samykannu, Christian Bharathi Antonyraj, SundaraBaalaji Narayanan, Syed Ibrahim Basheer Ahamed and **Shanmughavel P**
Microbial pathogenesis
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Kandavelmani Angamuthu, **Shanmughavel P**
Biomedical and Biotechnology Research Journal (BBRJ)

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Radhika Ramachandran and **Shanmughavel.P**
Virus Disease
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Shanmugam Govindan , Mohankumar Amirthalingam Kalaiselvi
Duraishamy , Nivitha Sundararaj ,Murugesh Easwaran, **Shanmughavel P**, Sundararaj Palanisamy
Biomedicine and Pharmacotherapy
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Journal Of Genomic Medicine and Pharmacogenomics
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Translational Genetics and Genomics

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Kandavelmani Angamuthu, **Shanmughavel P**
Biomedical and Biotechnology Research Journal (BBRJ)
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Ruban Durairaj.D, **Shanmughavel.P**
Interdisciplinary Sciences Computational Life Sciences
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MOJ Proteomics & Bioinformatics
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Radhika Ramachandran and **P. Shanmughavel**
MOJ Proteomics & Bioinformatics
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Radhika Ramachandran, Muthusankar Aathi, Ruban Durairaj.D and **Shanmughavel P**
Current HIV Research
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Sivaraman Balasubramanian, Renuka Vijayakumar, Elavarasan Krishnamoorthi and **Shanmughavel P**
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line EC520061

Suhas G. Karkute, Murugesh Easwaran, Ranjit Singh Gujjar,

Shanmughavel P

Journal of Molecular Modeling

30. Deciphering Neuroinformatics in the Gene Profiling of Mental Retardation using the Tool Geneious Pro and Cytoscape Software
Maria Infanshia Sajini, K. Praveen Kumar, Murugesh Easwaran, Gowdham, D. Sudarsanam, **P. Shanmughavel**
Research & Reviews: A Journal of Bioinformatics
31. Analysis of Transcription Factor Binding Sites of Co-expressed Genes in Colorectal Tumor by Microarray Data Analysis
Beutline Malgija M, **Shanmughavel. P**
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Grace Ratna Roy, **Shanmughavel. P**
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G. Mahendran, M. Manoj, E. Murugesh, R. Sathish Kumar, **P. Shanmughavel**, K.J. Rajendra Prasad, V. Narmatha Bai
Phytomedicine
34. Bioassay directed isolation and biological evaluation of compounds isolated from *Rubus fairholmianus* Gard.
Blassan P. George, Parimelazhagan Thangaraj, Cheruthazhakkatt Sulaiman, Sathish Kumar Ramaswamy, and **P. Shanmughavel**
BioMed Research International
35. An insilico study on anti inflammatory compounds from marine system using Molegro Virtual Docker

Lisina K.V, **Shanmughavel P**
World Journal of Pharmaceutical Sciences

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Lisina K.V, **Shanmughavel P**
International Journal of Pharmaceutical Sciences and Drug Research
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Lisina K.V and **Shanmughavel Piramanayagam**
International Journal of Pharmaceutical Sciences and Research
38. Functional annotation of introns in mitochondrial genome - a brief review
Shanmugam Anandakumar, Suda Parimala Ravindran and **P Shanmughavel**
Mitochondrial DNA
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Ruchi Jain and **Shanmughavel P**
The Scientific World Journal
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Aathi Muthusankar, **P.Shanmughavel**
Drug Invention Today
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Thangavel Indumathi, Aathi Muthusankar, **P.Shanmughavel** and K. J. Rajendra Prasad
Med. Chem. Commun
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Lisina K.V, Gopalakrishnan V.K, Muthusankar Aathi, Muruges Easwaran and **Shanmughavel P**
International Journal of Current Research
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Parthiban.M, **P.Shanmughavel** and R.Sowdhamini
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Marimuthu
Journal of Molecular modelling

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Bioinformation
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S.Sivashankari and **P. Shanmughavel**
Bioinformation

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Mycorrhiza
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P.Shanmughavel
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P.Shanmughavel
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Bamboo
Shanmughavel.P and Karthikeyan
East African Agricultural and Forestry Journal
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Shanmughavel.P, Pedddabiah R.S and Francis.K
Journal of sustainable forestry
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Shanmughavel.P
World Bamboo and Rattan
70. The dynamics of Biomass and nutrients in bamboo (Bambusa bambos)
plantations
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Journal of Bamboo and Rattan
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Shanmughavel.P, Lakshminarayanan and K. Francis
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Shanmughavel.P and Francis K
Journal of Bamboo and Rattan
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South West China. Tree species : Nutrient distribution and uptake
Shanmughavel.P, Liqing Sha, Zheng Zheng, and Min Cao
Bioresource Technology
74. Floristic Structure and biomass distribution of a Tropical Seasonal Rain
Forest in Xishuang banna, South West China
Shanmughavel.P, Zheng Zheng, Liqing Sha and Min Cao
Biomass and Bioenergy
75. Litter Production and Nutrient return in *Bambusa bambos* plantation
Shanmughavel.P, Pedddabiah R.S.and Muthukumar.T
Journal of Sustainable Forestry
76. Biomass accumulation in an age series of *Bambusa bambos* plantation
Shanmughavel.P, Pedddabiah R.S and Muthukumar.T
Biomass and Bioenergy
77. Bio productivity and Nutrient cycling in bamboo and acacia plantation
forests
Shanmughavel.P and Francis K
Bio Resources Technology
78. Bambusa Bambos- an afforestation trial
Shanmughavel.P and Francis K
The Malaysian Forester
79. Bamboo for agro forestry
Shanmughavel.P and Francis K
The Malaysian Forester

80. Investigation of heavy metal pollution on its influence on the biomass of a monsoon fed fresh water pond
Francis.K, **Shanmughavel.P**, Anbazhagan. M and Parimezhazhagan
Ecology, Environment and Conservation
81. Comparison of bamboo fibre length in Plantations and natural stands
Shanmughavel .P
Non-Wood News, Italy
82. Biomass accumulation in 7, 8 & 9th year *Bambusa bambos*
Shanmughavel .P
The Malaysian Forester
83. Bamboo cultivation: Problems and prospects
Shanmughavel.P
The Malaysian Forester
84. Bio-chemical characteristics of Plantation Bamboo (*Bambusa bambos*) leaf with reference to organic productivity
Shanmughavel.P, Anburaj.K, Hemalatha.S and Francis.K
Journal of Tropical Forest Science
85. The optimum age for felling of plantation bamboo (*Bambusa bambos*) for pulp and paper making
Shanmughavel.P
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Biology Fertility of Soils
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Shanmughavel.P
Ecol. Env. & Cons

88. Studies on comparison of pulp and paper making characteristics of plantation Bamboo with some tree species
Shanmughavel.P and Francis.K
Journal of Tropical Forestry
89. Trend of variation in fibre length in an age series of *Bambusa bambos*
Shanmughavel.P and Francis.K
Journal of Tropical Forestry
90. Biomass and Nutrient Cycling in bamboo (*Bambusa bambos*) plantation of Tropical areas
Shanmughavel.P and Francis.K
Biology Fertility of Soils
91. Distribution of nutrients in an age series of *Bambusa bambos* plantation
Shanmughavel.P and Francis.K
Commonwealth Forestry Review
92. Above ground biomass production and Nutrient distribution in growing bamboo (*Bambusa bambos*)
Shanmughavel.P and Francis.K
Biomass and Bioenergy
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Journal Name : Journal of Non Timber Forestry
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Journal Name : Journal of Non Timber Forestry
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Journal Name : Van Vigyan
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Journal Name : Journal of Non Timber Forest Products
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Journal Name : Van Vigyan
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Journal Name : Van Vigyan

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Journal Name : Van Vigyan
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Journal Name : Bangladesh J. Forest. Science
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Journal Name : J. Ecobiol

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International Book Distributors 1999
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CHAPTERS

1. Bamboos in India
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ENVIS Centre on Forestry, National Forest Library and Information
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2. Role of Bioinformatics in Biodiversity data management
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National Academy of Agricultural Research Management 2014
4. Overview of Biodiversity Informatics
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National Academy of Agricultural Research Management 2014
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proteins - A therapeutic approach - Emerging Trends in Herbal Sciences
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SSPH Publishers 2010
6. National Biogenetic Information System (NBGIS) for Sustainable
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