

## **Faculty Profile of Dr. J. Angayarkanni**



**Dr. J. Angayarkanni**  
**Professor & Head**  
**Department of Microbial - Biotechnology**

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### **Research Area**

- Microbial Metabolites
- Cancer Biology
- Pteridine & Autism

### **Education & Career**

#### **Education**

**Ph.D.****Subject :** *Biotechnology***Institution :** *Bharathiar University, Coimbatore***Affiliated University :** *Bharathiar University, Coimbatore***Year of Award :** *2002***M.Sc.,****Subject:** *Environmental Sciences***Institution :** *Bharathiar University, Coimbatore***Affiliated University :** *Bharathiar University, Coimbatore***Year of Award :** *1996***B.Sc.,****Subject:** *Biochemistry***Institution:** *Avinashilingam College for Women, Coimbatore***Affiliated University:** *Avinashilingam University***Year of Award:** *1990***Career****At Bharathiar University (Reverse Order)**

- **Associate Professor** : *April 2015 to Till Date*
- **Assistant Professor** : *April 2009 to April 2015*
- **Lecturer** : *August 2008 to April 2009*
- **Lecturer (Biotechnology)** : *April 2005 to August 2008*
- **Technical Officer (SG)** : *June 2000 to April 2005*
- **Technical Officer** : *June 1990 to June 2000*

**Awards**

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**Travel awards**

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Sl. No. : 01

Funding agency : DBT

Name of conference : 29th International winter-workshop on clinical, chemical, and biochemical aspects of pteridines

Country : Austria

Paper presented (Oral/Poster) : Oral

Title of paper : N-terminal sequencing of pterin deaminase from *Micrococcus luteus* BI1252

year : 2010

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### **Academic awards**

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Sl. No. : 01

Awarding agency : UGC-BSR Mid -Career Award

Country : India

Purpose of award : Recombinant approach for Deciphering the pterin deaminase Gene sequence and characterization from *Bacillus cereus* AM12

Period : 2018-2020

Sl. No. : 02

Awarding agency : DST- BOYSCAST Fellowship award

Institution visited : National University of Singapore

Country : Singapore

Purpose of award : Research Training

Papers if any : Crystal structure submission PDB ID:5XX9\_F

Period : 1 year

### **Membership**

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#### ***Membership in Professional Bodies***

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##### **Association of Microbiologists of India**

Life Member, 2008 onwards

##### **Biotech Research Society of India, India**

Life Member (LM 202), 2006 onwards

##### **American Society for Microbiology, USA**

Annual Member, 2010 onwards

**American Association of Cancer Research**

Active member (No. 151963), 2012 onwards

**Society of Biological Chemicals**

Life member, 2014 onwards

**Proteomics Society of India**

Life member (No.204), 2014 onwards

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***Membership in Academic Bodies***

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**Karpagam University, Coimbatore, India**

Member in Board of studies in Microbiology (UG, PG), 2007-08

**Periyar University, Coimbatore, India**

Member in Board of studies in Biotechnology (UG, PG), 2008-09

**Dr. GRD College of Science, Coimbatore, India**

Member in Board of studies in Microbiology (PG), 2010-12

**GRD Arts & Science college, Coimbatore**

Member in Board of studies in Biotechnology (PG), 2011-13

**Ayya Nadar Janakiammal Colleege, Sivakasi**

Member of Board of studies in Biotechnology (PG), 2012-14

**KSR Arts & Science college, Tiruchengodu**

Member in Board of studies in Microbiology (UG), 2012-15

**RVS college of Arts and Science, Coimbatore**

Member in Board of studies in Microbiology (UG & PG), 2014-16

**Bharathidasan University, Trichirapalli, India**

Member in Board of examiner in Biotechnology (UG & PG), 2017-2018

**Sri Sankara Arts & Science college,**

Member in Board of Examiner in Microbiology 2017-2018

**RVS college of Arts and Science, Coimbatore**

Member in Board of Examiner in Microbiology (UG & PG), 2017-2018

**Jamal Mohamed College of Arts & Science**

Member in Board of Examiner in Microbiology 2017-2018

**Bharathidasan University, Trichirapalli, India**

Member in Board of examiner in Biotechnology (UG & PG), 2017-2018

**Karpagam academy of Higher Education**

Research Advisory board, 2019-21

**Madurai Kamaraj University, Madurai, India**

Member in Board of examiner in Biotechnology (UG & PG), 2019-2020

**Sri Venkateshwara Institute of Medical Science**

Member in Board of Examiner in Microbiology 2019-2020

**Karpagam academy of Higher Education**

Member in Board of studies in Microbiology (UG & PG), 2020-21

**PSGR Krishnammal College, Coimbatore, India**

Member in staff selection committee, 2021-2022

**PSGR Krishnammal College, Coimbatore, India**

Member in staff selection committee of E-YUVA, 2022

**TANSCHE**

Member in Equalance committee, 2020-2021

**Bharathidasan University, Trichirapalli, India**

External Examiner in Ph.D Viva voce Examination, 27.3.2020

**Manonmaniyam Sundaranar University, Tirunelveli, India**

Member in Question paper setting for M.Phil and Ph.D Entrance

Examination, 2020

**Bharathidasan University, Trichirapalli, India**

External Examiner in Ph.D Viva voce Examination, 27.12.2022

**Kannur University, Kannur**

UGC - HRDC Programme, 26.10.2022

**Kannur University, Kannur**

External Examiner in Ph.D Viva voce Examination, 22.06.2022

**Jain University, Bangaluru**

External Examiner in Ph.D Viva voce Examination, 18.3.2021

**PSG college of Arts and Science, Coimbatore**

Subject Expert in Faculty interview, 26.11.2021

**PSG college of Arts and Science, Coimbatore**

Subject Expert in Faculty interview, 07.07.2022

**Karpagam academy of Higher Education**

Member in Doctoral Committee, 15.3.2022

**PSGR Krishnammal College, Coimbatore, India**

DBT Nominee, 2022-2025

**Karpagam academy of Higher Education**

DBT Nominee. 2022-2025

**Karpagam academy of Higher Education**

Member in Research Advisory committee, 2019-2020

**Sri Krishna Adithya College of Arts and Science,  
Coimbatore**

Member in College committee

**Pasteur Institute of India, India**

Member in staff selection committee, 11.01.2023

## Visits

**Indonesia** - 2 days, October,2017 - Paper Presentation

**Austria** - 5 days, 2017 - Paper Presentation

**Singapore** - 3 days, December,2015 - Poster Presentation

**Singapore** - 2 days, 2014 - Poster Presentation

**USA** - 4 days, 2014 - Poster Presentation

**Thailand** - 3 days, January,2013 - Paper Presentation

**Singapore** - 2 day, 2011 - Poster Presentation

**Singapore** - 1 year, June,2010 - June,2011 - Research Training

**Austria** - 5 days, 2010 - Paper Presentation

**Austria** - 5 days, 2009 - Paper Presentation

**Singapore** - 3 days, 2009 - Expert committee member visiting National University of Singapore for collaboration

## Collaborators

## Others

## Projects

Funded Projects(National Level)

- [Ongoing - 01](#)
  - [Completed - 06](#)
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### **1. RUSA - BCTRC**

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Title of the Project - Bioprospecting of Anticancer compounds from Microbial Sources

Principal Investigator - Dr. J. Angayarkanni

Name of the Funding Agency - RUSA - BCTRC

Time Period - 2020-2022

Sanctioned Amount (Rs. In Lakhs) - 28.88

### **2. UGC Mid-Career Award**

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Title of the Project - Recombinant approach for Deciphering the pterin deaminase Gene sequence and characterization from Bacillus cereus AM12

Principal Investigator - Dr. J. Angayarkanni

Name of the Funding Agency - UGC Mid-Career Award

Time Period - 2018-2020

Sanctioned Amount (Rs. In Lakhs) - 10.00 L

### **3. UGC-XII plan Innovative Research Scheme**

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Title of the Project - Production of pteridine from Micrococcus luteus

Principal Investigator - Dr. J. Angayarkanni

Name of the Funding Agency - UGC-XII plan Innovative Research Scheme

Time Period - 2015

Sanctioned Amount (Rs. In Lakhs) - 1.00 L

### **4. Department of Science and Technology (DST), New Delhi**

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Title of the Project - Novel derivative of Lovastatin as anticancer agent

Principal Investigator - Dr. J. Angayarkanni / Co-Investigator- Dr. G. Archunan

Name of the Funding Agency-Department of Science and Technology (DST), New Delhi

Time Period - 2010-2013

Sanctioned Amount (Rs. In Lakhs) - 29.5 L

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### **5. Indian Council for Medical Research (ICMR), New Delhi**

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Title of the Project - Semisynthetic complexes of ruthenium for antitumour property of Topoisomerase inhibitors

Principal Investigator - Dr. J. Angayarkanni

Name of the Funding Agency - Indian Council for Medical Research (ICMR), New Delhi

Time Period - 2008-2011

Sanctioned Amount (Rs. In Lakhs) - 14.42 L

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### **6. Department of Biotechnology (DBT), New Delhi**

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Title of the Project - Isolation of telomerase inhibitor from soil microbe

Principal Investigator - Dr. J. Angayarkanni

Name of the Funding Agency - Department of Biotechnology (DBT), New Delhi

Time Period - 2007-2010

Sanctioned Amount (Rs. In Lakhs) - 15.20 L

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### **7. University Grants Commission (UGC), New Delhi**

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Title of the Project - Purification and characterization of pterin deaminase from microbial source

Principal Investigator -Dr. J. Angayarkanni

Name of the Funding Agency - University Grants Commission (UGC), New Delhi

Time Period -2007-2010

Sanctioned Amount (Rs. In Lakhs) - 7.87 L

### **1. Funding Agency Name**

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**Title of the project :** ' \*\*\*\*\*'

**Funding Agency :** \*\*\*\*\*

**Amount :** Rs. \*\*\*\*\*

**Duration :** \*\*\*\*\*

### Consultancy Projects

- [Ongoing](#)
- [Completed](#)

### Research Guidance

- [Post-Doc](#)
- [Ph.D.](#)
- [M.Phil.](#)
- [M.Sc.,](#)

### Ongoing

Name of the candidate : **Dr. S. Rajamanickam (UGC- Kothari PDF)**

Title of thesis: Transcriptomics based screening of genes induced by ACC deaminase producing Plant Growth Promoting Rhizobacteria (PGPR) for the management of Groundnut bud necrosis virus in tomato (*Solanum esculentum L.*)

Year : 2021-2024

### Awarded

ONGOING

#### **Nair Sajitha Sukumaran**

Cloning, Expression and Characterization of ZFP 160 - A Putative Pterin deaminase from *Aspergillus terreus* NH2624

#### **K. Vidhya**

Synthesis and Characterization of L-Histidine based Schiff bases as inhibitors of Heme Oxygenase- A Novel Molecular target for anti microbial and anticancer treatment.

**Suganya**

Anticancer activity of *Syzygium calophyllifiloum* Walp

**J. Karunya Devi**

Differential DNA methylation in Gynecological cancer ( South Indian Population)

**Ambika**

Evaluation of *Acalypha indica* extract as a potential anticancer drug.

**M. Sasireka**

Assignment of Pterin Deaminase activity from *Agrobacterium tumefaciens*

**S. Nivetha**

Crystallization and Characterization of ZFP160 from *Aspergillus* sp.

**P.J.Jerimon**

Synergistic effect of Atorvastatin (Poly ketide) and Di hydro Biopterin on Triple-negative breast cancer cell line MDA MB 231.

AWARDED

**Kavitha, V**

Interspecific protoplast fusion of *Aspergillus terreus* and *A. flavus* for the enhancement of Lovastatin production and its antihypercholesterolemic and anticancer applications, *July, 2011*

**Sivasamy, R**

Anticancer potential of nucleoside diphosphate kinase from native isolate *Streptomyces* sp. By topoisomerase II inhibition, *08.07. 2011*

**K. P. Renuka Devi**

Characterisation of Lipopolysaccharide from selected strains of *Serratia marcescens* and its biological activity, *27.05.2013*

**Infanta K. Teresa Antony**

Enhancing the potency of GidA protein, a novel topoisomerase II inhibitor for anticancer activity, *23.02.2013*

**U. Priyadharshini**

Sequence analysis and biological implications of pterin deaminase from native isolate *Micrococcus luteus* B1252, *08.08.2013*

**S. D. Nisshanthini**

Evaluation of anticancer efficacy of 6-propionyl pterin characterized from cyanide utilizing bacterium *Bacillus subtilis*, 11.05.2014

**R.K. Sumathi**

Characterization and applications of Heme oxygenase from Native isolate *Candida tropicalis*, 23.12.2014

**N.Vijayarani**

Anticancer effect of antifolate enzyme pterin deaminase from native isolate *Aspergillus terreus* JQ 436691, 20.11.2014

**M. Mahalakshmi**

Bioconversion of cellulosic agrowastes for ethanol production, 17.11.2014

**Lida Ebrahimi**

Imminent Angiotensin converting enzyme inhibitor from microbial source for anticancer therapy, 17.07.2015

**M. Dhanalakshmi**

Biological characterization and anticancer potential of active compound from fresh water algae *Chlorosarcinopsis* sp., 10.06.2016

**P. Kiruthika**

Biologically active pigment from marine actinomycete for anticancer activity, 22.07.2016

**K. Ayub Nawaz**

Identification and characterization of angiotensin converting enzyme inhibitory peptide from *Cajanus cajan* by *Aspergillus niger* - An anticancer approach, 13.01.2016

**Satheesh kumar**

Prospective inhibitors of Angiotensin Converting enzyme from Marine bacterium *Lactobacillus plantarum*, 04.11.2016

**K.G.Kiran**

Isolation of human telomerase inhibitor from soil Actinomycete, *Nocardioopsis alba*. and its anticancer activity, 17-04-2017

**B.Janani**

Characterization and microbial modification of lovastatin from

Cunninghamella blakesleeana for its anticancer property, 26-07-2018

**M. Thandeeswaran**

Structural characterization of pterin deaminase from cyanide utilizing bacteria Bacillus cereus AM12, 26-07-2018

**R. Mahendran**

Pterin derivative from cyanide utilizing bacteria Bacillus pumillus STRAIN SBD06 as anti cancer agent against A549 cell., 04-03-2022

**Sabna . B. S**

Antidiabetic potential of Gama Aminobutyric acid (GABA) from the probiotic isolate *Enterococcus faecium* BS5, 07-09-2022

- Prasanna, R., Novel Angiotensin converting enzyme inhibitor from Aspergillus sp. by solid state fermentation, 2007.
- Kiran, K.G., Isolation of telomerase inhibitor from native isolate Streptomyces sp., 2008.
- Jancy Magdalene, Topoisomerase II inhibitor from Streptomyces species, 2009.
- Frieda Nancy, Purification and characterization of HO-1 from Candida albicans, 2009.
- Asher Rajkumar, R., Identification of MMP inhibitor from Marine brown algae, 2010.
- Maheskumar, A., Isolation and characterization of pterin from native isolate Staphylococcus sp., 2010.
- T. Shanthi, Biological activity of pigment from a soil microbe, 2010.
- Parthiban, S., Production and optimization of pterin deaminase from soil fungi, 2010.
- Sabarathinam, S, Biological and structural characterization of pterin deaminase from rat liver, 2010.

- Mehala, S., Anti-fungal metabolites production by actinomycetes induced in co-culture system against *Aspergillus niger*, 2011.
- Saraswathi, A., Biochemical characterization of pterin deaminase from native isolate *Microbacterium* sp., 2012.
- M.Thandeeswaran, Isolation and purification of pterin deaminase from Rabbit liver, 2013.
- J. Kishore kumar, Isolation of Matrix metalloproteinases (MMP-2 and MMP-9) from Rat liver, 2013.
- S. Vanishiri, Characterization of Hemeoxygenase from *Saccharomyces cerevisiae*, 2013.
- R. Mahendran, Purification of Pterin deaminase from native soil bacterium, 2014.
- K. Vidhya, Inhibition of heme oxygenase by novel imidazole derivatives – A strategy for cancer treatment, 2015.
- M. Karuppusamy, Molecular architecture of pterin deaminase from *Saccharomyces* sp., 2015.
- Sabna B.S., Isolation and characterization of pterin from native isolate *Bacillus* species, 2017.
- Nivethitha, Characterization of Pterin deaminase from *C.elegans*, 2018.

01 K.Vijayalakshmi, Purification and application of extracellular pterin deaminase isolated from *Aspergillus* Sp., 2004.

02 J.Gnanaraj, Improvement of Pterin deaminase production by *Aspergillus clavatus* using RSM, 2005.

03 M.N.U. Srilatha, Purification and characterization of pterin deaminase from *Aspergillus clavatus*, 2006.

04 A.Moorthy, Screening of Microorganism for pesticide degradation, 2007.

05 S.Rajasekar, Analysis of Secondary metabolites from Actinomycetes, 2007.

06 J.Shaahinn Banu, Expression and Purification of LHR LRR7-9 and Hinge, 2009.

- 07 Aswini Vijayaragavan, Antifungal metabolite production by *Streptomyces* Induced in co-culture system, 2010.
- 08 R.Sathiskumar, A study of Silver Nanoparticles synthesis using *Aerva lanata* against *Aspergillus niger*, 2012.
- 09 A.Freskaa, Expression of MDR1 and cyclin D1 in paclitaxel treated ovarian cancer cells, 2013.
- 10 Sindoja Nithyaanandarajah, All-Trans Retinoic acid protects the stem cell like cell line HNGC-2 from Tamoxifen-mediated cytotoxicity, 2013.
- 11 J. Karunyadevi, Extraction, Purification and biochemical characterization from *Bacillus megaterium* MTCC 3353, 2014.
- 12 Meenakshi S Mohanraj, Isolation of pigments from *Pseudomonas aeruginosa* Pyocyanin and Pyoverdine, 2014.
- 13 C.Sathya, Biologically active Koninginin derivative from Endophytic fungi from *Trichoderma* SP., 2014.
- 14 Navya, Molecular detection and comparative analysis of drug resistance pattern among clinical isolates and commensals of coagulase positive and negative *Staphylococcus* Sp., 2016.
- 15 T.Aravindhan, Study on Efficacy of Two Strain combination of Whole cell pertussis vaccine, 2016.
- 16 G.Yalmozhi, Inhibition of Heme oxygenase-1 by using commercially available imidazole drugs, 2016.
- 17 K.Sriparanjothi, Purification and Biochemical characterization of pterin deaminase from cyanide utilizing bacteria *Bacillus cerus* AM12, 2017.
- 18 M.Gayathiri, Isolation, purification and characterization of pterin compound from cyanide utilizing bacterium *Bacillus licheniformis*, 2017.
- 19 S.Sruthi, Optimization of Serum usage of different inactivating agents for the development of vero cell based rabies vaccine production, 2017.
- 20 S.Priyadharshini, Effect of water and trifluoroethanol on the structure and function of pterin deaminase, 2017.

- 21 B.Santhanalakshmi, Expression and purification of recombinant Plasmodium Falciparum merozoite surface protein and plasmodium vivax circumsporozite protein, 2018.
- 22 S. Shruthi, Inhibition of microbial hemeoxygenase by imidazole derivatives, 2019.
- 23 A.Sharmili, Diagnosis of gynaecological cancer with association of DNA methylation, 2019.
- 24 K.S. Anju, Isolation , Purification and Characterization of pterin compound from cyanide utilizing Bacterium Bacillus subtilis, 2019.
- 25 R.Mathumathe, Effect of designed antimicrobial peptide, NH<sub>2</sub> - KKKVVKKKVVKKKVV-COOH on Zebrafish embryo infected with P. aeruginosa, 2019.
- 26 R. Raguna, The synergistic response of Streptomyces Sp. And Dictyosphaerium Sp. By co-cultivation for Biomass and photosynthetic pigments production using Tea industry effluents, 2019.
- 27 R.Vishnupriya, Screening and Otimization of different parameters for food grade enzyme production from lactic acid bacteria, 2019.
- 28 C.Vibhavari, A preliminary study on characterization of the propective enzyme pterin deaminase Zebrafish embryo at different developmental stages, 2019.
29. M. Abirami, Production of Pterin deaminase from Cyanide utilizing bacterium Bacillus licheniforms,2020
30. Venkat Surya, Anti-bio film activity of the self - assembled designed peptide NH<sub>2</sub>KDRPKKPGLCVPKVVRRVVKK-COOH, 2020
31. Supriya, Analysis of DNA Methylation in cervical cancer, 2020
32. Subitha celus, Screening of potential Pteridine compounds from marine soil micro organisms, 2021
33. G. Aravindhan, Isolation and partial purification of Pterin deaminase from *C. elegans*, 2021
34. Nikhila, Isolation of Pterin deaminase producing micro organism from deep soil sample of mangrove *Avicennia marina*, 2021



35. Jeyaganeshwari, Impact of nutritional supplement Kanji on gut microbiome and behavioural pattern of ASD and related disorder children, 2021
36. P.J.Jerimon, Exploration and Evaluation of probiotic activities of Gama Aminobutyric acid (GABA) Producing Micro organism from Palm wine/ Toddy of *Cocos nucifera* , 2022
37. S. Nivetha, Immuno modulatory effect of self assembled Mellitin Nano particle in *E.coli* infected Zebra fish embryo, 2022
38. M. Vincy Mary, Anti microbial and Antibiofilm activity of self assembled Mellitin nano structure against *Candida albicans*, 2022
39. S. Renga Sushma, Identification of antimicrobial compounds from Plant growth promoting Rhizobacteria (PGPR) tested against Fuzarium wilt of tomato caused by *Fuzarium oxysporum f.sp.lycopersici*, 2022.

Name of the candidate : **Dr. M. Arulkumar (National PDF)**

Title of the Thesis : Reversal of Multidrug resistance (MDR) Property of cancer cells using modified marine based pyrrole alkaloids

Year : 2016-2018

Name of the candidate : **Dr. U. Suriyakalaa (National PDF)**

Title of the Thesis : Elucidating the molecular pathways (Olfactory & Oral) Behind the fertility - Enhancing potential of *Ficus religiosa* (L.), And its identified compound propionic acid - A study employing Kgn cell lines In Vitro and Letrozole induced Pcos Rat model In Vivo

Year : 2016-2018

Name of the candidate : **Dr. Bency Thangappan (Dr.D.S.KOTHARI PDF)**

Title of the Thesis : Proposing truncated and constrained variants of antimicrobial peptide, Omwaprin with optimized therapeutic potency

Year : 2016-2019

Name of the candidate : **Dr.R.Ramachandran (National PDF)**

Title of the Thesis : Microbial signals as an influencing factor to alter odour production; An unexplored metagenomics approach in Kangayam breed cattle (*Bos indicus*)

Year : 2017-2019

Name of the candidate : **Dr. D. Sankarganesh (UGC-Dr.D.S.Kothari)**

Title of the Thesis : Urinary volatile Biomarkers identification in women with Poly

Cystic Ovarian Syndrome (PCOS) – A Preliminary approach for Non-Invasive diagnosis

Year : 2018-2021

Name of the candidate : **Dr. Bency Thangappan (DST-WOSA)**

Title of the Thesis : Immuno Modulatory effect of Human Beta defensin and Melittin on Microbial infection in Zebra fish embryo

Year : 2019-2022

Name of the candidate : **Dr. S. Sivaselvam (RUSA PDF)**

Title of the Thesis : Smart NIR Responsive Multifunctional Nano-catalyst for Synergetic Chemodynamic and Photothermal Therapy

Year : 2021-2022

## Research Publication

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

Reverse Chronological Order

2023

95. [Toxicity analysis and biomarker response of Quinalphos Organophosphate Insecticide \(QOI\) on eco-friendly exotic \*Eudrilus eugeniae\* earthworm](#)

Nachimuthu Krishnan Sujeeth, Ramasamy Aravinth, Murugesan Thandeewaran, Jayaraman Angayarkanni, Aruliah Rajasekar, R Mythili, Murugesan Gnanadesigan

2022

95. [Bioconversion of lovastatin to simvastatin by \*Streptomyces carpaticus\* towards the inhibition of HMG-CoA activity](#)

Janani Balraj, Thandeeswaran Murugesan, Anand Raj Dhanapal, Vidhya Kalieswaran, Karunyadevi Jairaman, Govindaraju Archunan, Angayarkanni Jayaraman

Biotechnology and Applied Biochemistry

94. [Evaluation of novel L-histidine-based Schiff base derivatives as microbial-HO inhibitors and their antimicrobial and molecular docking studies](#)

Kalieswaran Vidhya, Kumar Praveen Kumar, Shanmughavel Piramanayagam, Mani Arulkumar, Janani Balraj, Karunyadevi Jairaman, Gopalan Subashini, Jayaraman Angayarkanni

Journal of Molecular Structure 1270, 133890

93. [Pheromones, binding proteins, and olfactory systems in the pig \(\*Sus scrofa\*\): An updated review.](#)

Devaraj Sankarganesh, Roy N Kirkwood, Patricia Nagnan-Le Meillour, Jayaraman Angayarkanni, Shanmugam Achiraman, Govindaraju Archunan

Frontiers in Veterinary Science 9, 989409-989409

92. [Identification and structural prediction of the unrevealed amidohydrolase enzyme: Pterin deaminase from \*Agrobacterium tumefaciens\* LBA4404](#)

AR Dhanapal, M Thandeeswaran, P Muthusamy, A Jayaraman

Biotechnology and Applied Biochemistry

91. [Pharmacological assessment of Ru \(II\) complex with \*GidA\* protein-A novel topoisomerase II inhibitor towards cancer therapeutics](#)

Antony K Teresa Infanta. S, Nisshanthini Durairaju, Senthil Raja, Thandeeswaran Murugesan, Anand Raj Dhanapal, Karupannan Natarajan, Ajithkumar Balakrishnan, Hemamalini Vedagiri, Palaniswamy Muthusamy, Angayarkanni Jayaraman

European Journal of Pharmaceutical Sciences Journal of Biomolecular Structure and Dynamics, 1-11

90. [Cigarette butt waste derived activated carbon incorporated silver nanoparticle \(AC-Ag\): Effective nanocomposite for anti-bacterial and anti-larval activity in wastewater ...](#)

Chellasamy Panneerselvam, Udaiyan Suresh, Fuad Abdullah Alatawi, Jayaraman Angayarkanni, Kadarkarai Murugan

Materials Letters 313, 131809

89. [Bacillus siamensis I7B strain as heavy metal quencher and probiotics; isolated from gut of Stolepherous commersonni](#) Daniel Raja Femil Selta, SABNA BS, RAMASAMY MAHENDRAN, BENCY THANKAPPAN, GAYATHRI MUTHUSAMY, VINOTH BALASUBRAMANIAN, ANGAYARKANNI JAYARAMAN

88. [Analysis of phytochemical composition of leaf extract of sacred fig \(Ficus religiosa L.\) by UPLC-QqQ-MS and assessment of their hepatocurative potential in mouse model](#)

Udhayaraj Suriyakalaa, Devanesan Arul Ananth, Rajamanickam Ramachandran, Devaraj Sankarganesh, Jayaraman Angayarkanni, Zipora Tietel, Shanmugam Achiraman South African Journal of Botany

2021

87. [Pig pheromones and behaviors: A review](#)

D Sankarganesh, R Kirkwood, J Angayarkanni, S Achiraman, G Archunan

Theriogenology 175, 1-6

86. [Alcalase potato protein hydrolysate-PPH902 enhances myogenic differentiation and enhances skeletal muscle protein synthesis under high glucose condition in C2C12 cells](#)

YJ Chen, CF Chang, J Angayarkanni, WT Lin

Molecules 26 (21), 6577

85. [Assessment of ligninolytic bacterial consortium for the degradation of azo dye with electricity generation in a dual-chambered microbial fuel cell](#)

T Krithika, R Kavitha, M Dinesh, J Angayarkanni  
Environmental Challenges, 4, 100093 (2021)

84. [Dual antimicrobial and anticancer activity of a novel synthetic  \$\alpha\$ -helical antimicrobial peptide](#)

B Thankappan, J Sivakumar, S Asokan, M Ramasamy, M M Pillai, R Selvakumar, J Angayarkanni European Journal of Pharmaceutical Sciences  
European Journal of Pharmaceutical Sciences, 161, 105784 (2021)

83. [Evaluation of GABA Production and Probiotic Activities of Enterococcus faecium BS5](#)

BS Sabna, B Thankappan, R Mahendran, G Muthusamy, J Angayarkanni  
Probiotics and Antimicrobial Proteins, 1-12 (2021)

82. [Upregulation of Cyp19a1 and PPAR- \$\gamma\$  in ovarian steroidogenic pathway by Ficus religiosa: A potential cure for polycystic ovary syndrome](#)

U Suriyakalaa, R Ramachandran, J A Doulathunnisa, S B Aseervatham, D Sankarganesh, S Kamalakkannan, B Kadalmani, J Angayarkanni, M A Akbarsha, S Achiraman  
Journal of Ethnopharmacology, 267, 113540 (2021)

81. [Detection of estrous biomarkers in the body exudates of Kangayam cattle \(Bos indicus\) from interplay of hormones and behavioral expressions](#)

R Ramachandran, A Vinothkumar, D Sankarganesh, U Suriyakalaa, VS Aathmanathan, S Kamalakkannan, V Nithya, J Angayarkanni, G Archunan, MA Akbarsha, S Achiraman  
Domestic Animal Endocrinology, 72, 106392 (2021)

2020

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## **Book**

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### **1. Lab manual on Industrial Biotechnology**

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Thannambikai Publisher, ISBN: 978-93-87314-43-6

### **2. Bioprocess Technology**

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## **Book Chapter**

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