

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

Travel awards

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

Academic awards

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

Membership in Professional Bodies

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

Membership in Academic Bodies

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 Collecge, 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

TANSCH

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](#)
-

1. RUSA - BCTRC

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

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

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

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

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

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

6. Department of Biotechnology (DBT), New Delhi

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

7. University Grants Commission (UGC), New Delhi

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

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 calophyllifolium* 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.Aravindhana, 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 cereus* 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 circumsporozoite 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, NH₂ - KKKVVKKKVKKV-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 NH₂KDRPKKPGLCPVPKKVRRRVKK-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

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 AchiramanSouth 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

80. [A brief review on the non-protein amino acid, gamma-amino butyric acid \(GABA\): its production and role in microbes](#)

S B Sarasa, R Mahendran, G Muthusamy, B Thankappan, D R Femil Selta, J
Angayarkanni
Current Microbiology, 77, 4, 534-544 (2020)

79. [Microbial \(Enzymatic\) Degradation of Cyanide to Produce Pterins as Cofactors](#)

R Mahendran, BS Sabna, M Thandeeswaran, M Vijayasarathy, J
Angayarkanni, G Muthusamy

Current Microbiology, 77, 4, 578-587 (2020)

78. [Purification and characterization of \$\beta\$ -galactosidase from newly isolated *Aspergillus terreus* \(KUBCF1306\) and evaluating its efficacy on breast cancer cell line \(MCF-7\)](#)

B Vidya, M Palaniswamy, J Angayarkanni, K Ayub Nawaz, M Thandeeswaran, K Krishna Chaithanya, Berihu Tekluu, Karthi Muthusamy, VK Gopalakrishnan
Bioorganic Chemistry, 94, 103442 (2020)

2019-2004

77. [Biological characterization of omw1 and omw2: antimicrobial peptides derived from omwaprin](#)

B Thankappan, J Angayarkanni
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Book Chapter

1. Telomere and Telomerase in cancer

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