

Faculty Profile of Dr. R. Kavitha



Dr. R. Kavitha
Assistant Professor
Department of Bio-Chemistry

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Research Area

- Microbial Enzymes
- Biosensors
- Biopharmaceuticals
- Neuronal science

Education & Career

Education

Ph. D.

Subject : Biochemistry

Institution : Avinashilingam Institute for Home Science and Higher Education for Women

Affiliated University: Avinashilingam University

Year of Award: 2017

M.Phil.

Subject : Biochemistry

Institution : Maharaja College of Arts and Science, Perundurai, Erode.

Affiliated University: Bharathiar University, Coimbatore.

Year of Award: 2007

PGDCA

Subject : Computer Applications

Institution : Alagappa University

Affiliated University: Alagappa University

Year of Award: 2003

SLET

Subject : Biochemistry

Institution : Bharathidasan University

Year of Award: 1998

M. Sc.,

Subject : Biochemistry

Institution : PSG college of Arts and Science, Coimbatore

Affiliated University: Bharathiar University, Coimbatore.

Year of Award: 1998

B. Sc.,

Subject : Biochemistry

Institution : PSG college of Arts and Science, Coimbatore

Affiliated University: Bharathiar University, Coimbatore.

Year of Award: 1996

Career

At Bharathiar University (Reverse Order)

Assistant Professor: 02/09/2015 to Till date

Past Experience

Lecturer in Biochemistry: 08 /09/1998 To 31/03/2008 at Maharaja College for Women, Perundurai - Tamil Nadu, India- 638 052

Assistant Professor in Biochemistry (Under faculty Improvement Programme) : 08/08/2011 to 14/07/2012 at Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, Tamil Nadu. , India - 641043,

Awards

Award for receiving sponsored research projects during the year 2021-2022

Membership

Professional Bodies

Organization: The National Society of Ethanopharmacology of India

Type of Membership: Life member (No 314)

Period: From 03/03/2017

Academic Bodies

Organization: Bharathiar University

Type of Membership: Board of studies member

Period: 2016 to till date

Organization: Bharathiar University, Periyar university, Kerala university,avinashilingam university, vellalar college for women

Type of Membership: Question paper setter

Period: 2019 to till date

Visits

Collaborators

Others

Projects

Funded Projects (National Level)

- [Ongoing](#)
 - [Completed](#)
1. Development of whole cell microbial biosensor for heavy metal sensing, waste water treatment and bioelectricity production
Principal Investigator
Tamil Nadu State Council for Higher Education (TANSCHE)
Time Period
Sanctioned Amount (Rs. 15 Lakhs)

 1. Development of microbial fuel cell for the textile waste water treatment and bioelectricity generation
Principal Investigator
RUSA 2.0 BEICH
1 Year
Sanctioned Amount (Rs. 8 Lakhs)

Consultancy Projects

- [Ongoing](#)

- [Completed](#)

Ongoing Consultancy Project Informations

Completed Consultancy Project Informations

Research Guidance

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

Ongoing - 3

Vishnupriya C

Naveena N

Yogeshwari I

Completed

Nil

Ongoing

NIL

Completed - 2

Krithika T

Title of the Thesis : Construction of Microbial Fuel Cell with Ligninolytic bacteria For the Simultaneous Textile Dye Degradation and Electricity Production

Year of Award: 2019

Femil selta D

Title of the Thesis :Characterization of gut bacteria *Stoilephorus commersonii* as potential probiotics

Year of Award: 2021

Ongoing

Accordion content 1.

Completed

Anjali S

Title of the Thesis : Analysis of Polyethylene Degrading Potential of Ligninolytic Bacterial strains isolated from soil

Year of Award: 2017

Indira R

Title of the Thesis : Hepatoprotective activity of Viniferin Extracted from *Vitis Vinifera* on mice induced liver damage

Year of Award: 2017

Preethi M

Title of the Thesis : Synthesis of Biocompatible Zinc Oxide nanoparticles and their neuroprotective effect of 6-OHDA induced neural damage in SH-SY5Y cells

Year of Award: 2017

Sujithra B

Title of the Thesis : Production and Purification of Extracellular Invertase under solid state fermentation using Grape Stalk as substrate by *Aspergillus niger* MTCC 432 and its application in wine production

Year of Award: 2017

Venkatesh V P

Title of the Thesis : Understanding the effect of pre and post treatment with polymeric Black tea Polyphenols (PBPs) on various biomarkers in A/J mice model.

Year of Award: 2017

Archana R

Title of the Thesis : Biochemical evaluation of Pterin Deaminase from *Danio rerio*

Year of Award: 2018

Elizabeth Mary J

Title of the Thesis : Degradation of Methylene Blue by Ligninolytic Bacteria isolated from Western Ghats

Year of Award: 2018

NawasHereif J

Title of the Thesis : Anticancer activity of Biocompatible Chitosan nanoparticles loaded with Santalol against Human Epithelial Ovarian Cells

Year of Award: 2018

Vinoth B

Title of the Thesis : Isolation, Screening and Characterization of Heavy Metal Resistant Bacteria From Gut Microbiota of Marine Fishes of Gulf of Mannar

Year of Award: 2018

FemilSelta D

Title of the Thesis : Biodegradation of heavy metals using *Bacillus amyloliquefaciens* from gut of *Stolephorus Commersonii* and *Silago sihama*

Year of Award: 2019

Lavanya T

Title of the Thesis : Evaluation of Phytochemicals and Antioxidant potential of Stem of *Amaranthus Hybridus*

Year of Award: 2019

Priyadharshini S

Title of the Thesis : Evaluation of Phytochemicals and Antioxidant potential of Stem of *Amaranthus Tricolor*

Year of Award: 2019

Riyaz Ahamed M

Title of the Thesis : Phytochemical investigation and Antioxidant, Antibacterial activities of *Hymenocallis Caribae* (L.) Herb root extracts.

Year of Award: 2019

Sofia Banu S

Title of the Thesis : Evaluation of Phytochemicals and Antioxidant activity of *Hymenocallis Caribaea* (L.)

Year of Award: 2019

Roshni r

Title of the Thesis : Assessment of ligninolytic enzymes in bacillus sps isolated from soil

Year of Award: 2020

Monika u

Title of the Thesis : Antioxidant and antibacterial activities of silver nanoparticles synthesized from exopolysaccharide of bacillus sps strain rkdf17b

Year of Award: 2020

Sharmiladevi p

Title of the Thesis : Investigation of vanillin production during lignin degradation by ligninolytic bacteria isolated from soil.

Year of Award: 2021

Niha hanees

Title of the Thesis : In vitro evaluation of probiotic and antioxidant potential of fish gut isolates

Year of Award: 2021

Kaviarasi j

Title of the Thesis : Safety assessment of gut bacteria isolated from marine fish as probiotics and bio preservatives

Year of Award: 2021

Nivetha p

Title of the Thesis :Production of lipopeptide biosurfactant by bacillus cereus using agroindustrial waste

Year of Award:2022

Abinaya s

Title of the Thesis :Preparation and characterization of oligosaccharide from seed mucilage

Year of Award:2022

Reshma r

Title of the Thesis :Identification of bioactive constituents and invitro antioxidant properties of euryale ferox seeds

Year of Award:2022

Research Publication

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

2021

1. [Assessment of polyethylene degradation by biosurfactant producing ligninolytic bacterium.](#)

R.Kavitha and V. Bhuvaneswari,
Biodegradation 2021

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

Thiruppathi Krithika, Rangasamy Kavitha, Muthu Dinesh, Jayaraman Angayarkanni

Environmental Challenges 4 (2021) 100093

3. [Evaluation of textile dye degrading potential of ligninolytic bacterial consortia](#)

KrithikaThiruppathi, Kavitha Rangasamy,Mahendran Ramasamy, Dinesh Muthu

Environmental Challenges 4 (2021) 100078

Patent Info

Conference Info

Books & Chapters Related Info

Database Related Info

Daniel raja,F.S and Kavitha,R - *Bacillus amyloliquefaciens* strain rkdf-i7b 16s ribosomal rna gene, partial sequence - NCBI- Mn371393 - 2019 .

Elizabeth Mary,J., Kavitha,R. and Krithika,R- *Bacillus cereus* strain b1 16s ribosomal rna gene, partial sequence - NCBI- 2018.

Kavitha R and Bhuvaneshwari. V - *Bacillus sp.* Strain pe3 16s ribosomal rna gene, partial sequence - NCBI - Mf948285.1 - 2017.

Naveena,N., Kavitha,R. and Keerthana,S. - *Staphylococcus pasteurii* strain NKM02 16S ribosomal RNA gene, partial sequence - NCBI - OQ071605.1 - 2022.

Naveena,N., Kavitha,R. and Keerthana,S.- *Staphylococcus warneri* strain NKM01 16S ribosomal RNA gene, partial sequence- NCBI-OQ071603.1- 2022.

Naveena,N., Kavitha,R. and Keerthana,S- *Shigella sonnei* strain KKMNH01 16S ribosomal RNA gene, partial sequence- NCBI- OQ028261- 2022.

Vishnupriya,C., Mohamedrizwan,M. and Kavitha,R- Uncultured actinobacterium clone SW1 16S ribosomal RNA gene, partial sequence- NCBI- OQ028260.1- 2022.

Vishnupriya,C., Mohamedrizwan,M, Arya,P. and Kavitha,R.- Actinobacteria bacterium strain VRK2 16S ribosomal RNA gene, partial sequence- NCBI- OQ071604.1- 2022.

Vishnupriya,C. and Kavitha,R.- Actinobacteria bacterium strain VRAK24 16S ribosomal RNA gene, partial sequence- NCBI- OQ071606.1- 2022.

Organised

Webinar on recent advances in biomedical sciences organised by Dst purse

Biology of Respiratory Infections organised by RUSA

DST-PURSE supported Satellite Symposia on Physical Sciences, Life Sciences, Chemical Sciences, and Mathematical-Statistical-Computational Sciences from 13.09.2022 to 15.09.2022

International conference on Biosciences and Bioinformatics

Attended

International conference and 7th annual meet of the national society of ethanopharmacology from 27.2.2017 to 1.03.2017

International conference on environment and ecology on 7-9 march 2016

National conference on computational biology

4th national conference on computational biology on 27.09.2017

Conference proceedings:

Proceedings of Herbal and Natural Components as the Future of Pharmacology
Kavitha, R. and Bhuvaneswari, V.
ISBN : 978-93-84234-04-1 date: 2017

Alumini Reflections: