

Faculty Profile of Dr. K. M. Saradhadevi



Dr. K. M. Saradhadevi
Assistant Professor
Department of Bio-Chemistry

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Mobile No:94452-85328

Research Area

- Molecular oncology
- Genetic engineering and gene therapy
- Nano therapeutics
- Cellular transduction

Education & Career

Education

Degree: Ph. D.,

Subject: Biochemistry

Institution: Avinashilingam Institute of Home Science and Higher education for Women

Affiliated University: UGC

Year of Award: 2014

Degree: M.Phil.,

Subject: Biochemistry

Institution: Avinashilingam Institute of Home Science and Higher education for Women

Affiliated University: UGC

Year of Award: 2010

Degree: M. Sc.,

Subject: Biochemistry

Institution: Avinashilingam Institute of Home Science and Higher education for Women

Affiliated University: UGC

Year of Award: 2008

Degree: B. Sc.,

Subject: Biochemistry

Institution: St. Joseph College Of Arts And Science

Affiliated University: University of Madras

Year of Award: 2001

Career

Position: Assistant Professor

Institute: Bharathiar University

Department: Biochemistry

Period: November 2016 to Till date*

Position: Guest Faculty

Institute: Bharathiar University

Department: Biochemistry

Period: July 2016 to November 2016

Position: Guest Faculty
Institute: Bharathiar University
Department: Biotechnology
Period: October 2013 to April 2016

Awards

Awarding agency: National Conference on Phytomedicine, Bharathiar University, Coimbatore, Tamilnadu

Country: India

Purpose of award: Best Paper Award

Year of Award: 2023

Awarding agency: DST – PURSE Supported Satellite Symposium on Physical Sciences, Life Sciences, Chemical Sciences, Mathematical – Computational Sciences, Bharathiar University, Coimbatore.

Country: India

Purpose of award: Best Paper Award

Year of Award: 2022

Awarding agency: Indian Academy of Sciences, Bangaluru

Country: India

Purpose of award: Science Academies Summer fellowship-2020

Year of Award: 2020

Awarding agency: Nature Science Foundation

Country: India

Purpose of award: Best Women Scientist Award

Year of Award: 2018

Awarding agency: International Conference on Phytomedicine, Department of Botany, Bharathiar University, Coimbatore.

Country: India

Purpose of award: Best Poster Award

Year of Award: 2018

Awarding agency: Awarded Conference grant

Country: India

Purpose of award: Awarded Conference grant of Rs. 50,000/- from CSIR, New Delhi, India.

Year of Award: 2017

Awarding agency: Tamil Nadu State Eligibility Test, Government of Tamilnadu

Country: India

Purpose of award: Qualified TNSET (2016 - Life Science)

Year of Award: 2016

Awarding agency: Awarded Distinction

Country: India

Purpose of award: Awarded Distinction in M.Phil.

Year of Award: 2010

Awarding agency: Awarded Distinction

Country: India

Purpose of award: Awarded Distinction in PG

Year of Award: 2008

Membership

Professional Bodies

Organization: Nature Science Foundation, Coimbatore, Tamil Nadu.

Type of Membership: Membership

Period: Life Time

Organization: National Academy of Biological Sciences, Chennai, Tamil Nadu

Type of Membership: Membership

Period: Life Time

Organization: The Madras Agricultural Journal, TNAU Campus, Coimbatore

Type of Membership: Membership

Period: Life Time

Organization: Sri Avinashilingam Education Trust Institutions Alumni Association Coimbatore, TN.

Type of Membership: Membership

Period: Life Time

Organization: Environmental Protection Movement Coimbatore Chapter: Department of Environmental sciences, TNAU Campus, Coimbatore, Tamil Nadu.

Type of Membership: Membership

Period: Life Time

Organization: Society for Biotechnologists, Cochin, Kerala.

Type of Membership: Membership

Period: Life Time

Academic Bodies

Organization: Avinashilingam Institute of Home science and Higher education for Women, Coimbatore

Type of Membership: Board of Exams

Period: Till Date

Organization: St. Joseph's College, Cuddalore

Type of Membership: Board of Exams

Period: Till Date

Organization: Thiruvalluvar University, Vellore

Type of Membership: Board of Exams

Period: Till Date

Organization: Periyar University, Salem

Type of Membership: Board of Exams

Period: Till Date

Organization: University of Kerala

Type of Membership: Board of Exams

Period: Till Date

Organization: Theivanaiammal College for Women, Villuppuram

Type of Membership: Board of Exams

Period: Till Date

Organization: K.S. Rangasamy college of arts and science, Thiruchengode, Nammakkal

Type of Membership: Board of Exams

Period: Till Date

Organization: Bharathidasan University, Trichy.

Type of Membership: Board of Exams

Period: Till Date

Organization: Royal Society of Chemistry, United Kingdom

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Nano medicine and Nanoscience Research, USA

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Natural Product Research, Roma, Italy.

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Journal of Medicinal Herbs and Ethno medicine, Italy

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Journal of Radiation Research and Applied Sciences, Cairo, Egypt

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Bioinorganic Chemistry and Applications, Italy

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Advanced Pharmeceutical Bulletin, Tabriz, Iran

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Biological Trace Element Research, North Dakota, US

Type of Membership: Journal Reviewer

Period: Till Date

Organization: European Journal of Medicinal Plants, Italy

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Naunyn-Schmiedeberg's Archives of Pharmacology,
Germany

Type of Membership: Journal Reviewer

Period: Till Date

Organization: World Journal of Surgical Oncology, Europe

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Applied Biochemistry and Biotechnology, Minneapolis

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Journal of Medicinal Herbs and Ethnomedicine, Italy

Type of Membership: Journal Editor

Period: Till Date

Organization: Chemistry Select, Germany

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Journal of Gynecology Obstetrics and Human Reproduction

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Advanced Pharmaceutical Bulletin

Type of Membership: Journal Reviewer

Period: Till Date

Organization: International Journal of Pharmaceutics

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Natural Resources for Human Health

Type of Membership: Journal Reviewer

Period: Till Date

Organization: Bio Nano Science
Type of Membership: Journal Reviewer
Period: Till Date

Organization: Journal Drug Design, Development and Therapy
Type of Membership: Journal Reviewer
Period: Till Date

Organization: Annals of Pediatric Endocrinology & Metabolism
Type of Membership: Journal Reviewer
Period: Till Date

Organization: Research on Chemical Intermediates
Type of Membership: Journal Reviewer
Period: Till Date

Organization: Journal of Radiation Research and Applied Sciences
Type of Membership: Journal Reviewer
Period: Till Date

Organization: Clinical and Experimental Obstetrics & Gynecology
Type of Membership: Journal Reviewer
Period: Till Date

Visits

Collaborators

Name: Dr. G. Mathan
Designation: Associate Professor
Institute name: Department of Biomedical Science, Bharathidasan University, Tiruchirappalli.
Collaboration purpose: Research collaborator

Name: Dr. M. Arun

Designation: Assistant Professor

Institute name: Department of Biotechnology, Bharathiar university, Coimbatore.

Collaboration purpose: Research collaborator

Name: Dr. P. Gurusaravanan

Designation: Assistant Professor

Institute name: Department of Botany, Bharathiar university, Coimbatore.

Collaboration purpose: Research collaborator

Name: Dr. A. Vijaya Anand

Designation: Professor

Institute name: Department of Human genetics and Molecular Biology, Bharathiar university, Coimbatore.

Collaboration purpose: Research collaborator

Name: Dr. K. Ashokkumar

Designation: Post doctoral Researcher

Institute name: Department of Plant Sciences, University of Saskatchewan, Saskatoon, Canada.

Collaboration purpose: Research collaborator

Others

Position: Resource person

Title: “Breakpoint Analysis of Transcriptional and Genomic Profile of Human Cancer”

Department: UGC - Human Resource Developmental Centre

Institute: Bharathiar University

Period: 27th November 2023.

Position: Resource person

Title: “123rd Orientation Programme”

Department: Human Resource Developmental Centre

Institute: Bharathiar University

Period: June 20th – July 10th 2019.

Position: Resource person

Title: “The Basics of RT-PCR and its clinical applications”

Department: UGC-Human Resource Developmental Centre

Institute: Bharathiar University

Period: 19th September, 2022

Position: Resource person

Title: “Cancer management and therapy using designer nanoparticles”

Department: Department of Biochemistry

Institute: Karpagam academy of higher education

Period: March 26th 2021

Position: Resource person

Title: “Lab-Cytogenetics & Molecular Biology techniques demonstration” in the “Refresher Course in Zoology”

Department: UGC-Human Resource Developmental Centre

Institute: Bharathiar University

Period: June 26th, 2019

Position: Resource person

Title: “Workshop on Cytogenetics & Molecular Biology Techniques”

Department: Department of Zoology and Department of Human Genetics and Molecular Biology

Institute: Bharathiar University

Period: 15th to 29th, May 2019

Position: Resource person

Title: “Recent Advances in Plant Science Research -Anti-cancer Activity of Silver Nanoparticles of Gloriosa superba (Sengathal Malar) in Tumor Cells” in the “Two Days Webinar on Recent Advances in Plant Science Research”

Department: PG and Research Department of Botany

Institute: Arulmigu Palaniandavar College of Arts and Culture

Period: June 18th and 19th 2020

Position: Resource person

Title: “Novel Organic and Inorganic Nanoparticles as a targeted Drug delivery vehicle in Cancer Treatment” in the “International webinar (FDP) on Leading research trends in biological sciences”

Department: Department of Biochemistry

Institute: Ramaiah college of arts, science and commerce

Period: 17th to 21st August 2020

Position: Resource person

Title: “Animal Cell Culture and its Applications” in Hands-on workshop - II on “Basic techniques in Genetics, cell Biology and Animal cell Culture”

Department: Department of Human Genetics & Molecular Biology and Department of Biotechnology

Institute: Bharathiar University

Period: 5th 10th May, 2018

Position: Resource person

Title: “Recent Trends in the Life Sciences: Research, Practices and Application for Sustainable Development” in the 10th NABS National Conference"

Department: Inter-Department

Institute: Bharathiar University

Period: 7th – 8th September, 2017

Position: Resource person

Title: “Frontiers in Nanotechnology” in Workshop – On The Job Training Program On Cytogenetic and Molecular Biology Techniques"

Department: Department of Human Genetics & Molecular Biology

Institute: Bharathiar University

Period: 11th - 18th August, 2017

Position: Resource person

Title: “National seminar on Molecular basis of cancer and prevention”

Department: Department of Biochemistry

Institute: Prist University

Period: 18th to 19th February 2020

Position: Resource person

Title: “Genetic and Developmental disorders – Down syndrome” in Awareness programme on Down syndrome

Department: Department of Human Genetics & Molecular Biology

Institute: Bharathiar University

Period: 21st March, 2018

Position: Resource person

Title: “Entrepreneurship awareness camp-2018”

Department: Department of Botany

Institute: Bharathiar University

Period: 6th-8th September 2018

Position: Resource person

Title: "Future Prospects in Cancer Nanotechnology" in the International conference"

Department: PG Department of Biochemistry

Institute: Holy Cross College (Autonomous)

Period: 21st February 2023

Position: Judge

Title: One Day Pre Workshop National Conference on " Translational Research in Medicinal and Aromatic Plants for Cancer Therapeutics - Current Strategies and Future Prospects"

Department: Department of Microbial Biotechnology

Institute: Bharathiar University

Period: 14th March 2023

Position: Judge

Title: "Future Prospects in Cancer Nanotechnology" in the International conference"

Department: PG Department of Biochemistry

Institute: Holy Cross College (Autonomous)

Period: 21st February 2023

Position: Judge

Title: "PHOENIX-2019, Inter-Departmental Cultural Competition"

Department: Inter-Departments

Institute: Bharathiar University

Period: Feb 26th - March 2nd, 2019

Position: Judge

Title: "Just a Minute" in the National Seminar on "Computer Genomics Tools for next-Generation sequencing and Biomedical Data analysis"

Department: Department of DBT Bioinformatics

Institute: Bharathiar University

Period: 8th February 2019

Position: Judge

Title: "DEBATE" in the event of "COMFEST - 2019"

Department: Department of Commerce

Institute: Bharathiar University

Period: 26th September, 2019

Projects

Funded Projects (National Level)

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

Ongoing Projects List with necessary Information

Completed Projects List with necessary Information

Ongoing projects:

Title of the Project: “Assessment of Differential Expression and.....in Breast Cancer”

Agency: ICMR

Period: December 2022 to December 2024

Amount: Rs. 10,00,000

Principal Investigator: Dr. K. M Saradhadevi

Title of the Project: “Evaluation of anticancer efficacy ofin Cervical Cancer”

Agency: Tamil Nadu State Council for Higher Education

Period: April 2021 to April 2024

Amount: Rs. 37,20,500

Principal Investigator: Dr. K. M Saradhadevi

Title of the Project: “Analyzing the effect of in Human breast cancer cell”

Agency: RUSA-2.0 BCTRC

Period: December 2020 to December 2022

Amount: Rs. 16,38,000

Principal Investigator: Dr. K. M Saradhadevi

Completed projects:

Title of the Project: “Assessment of..... in Breast Cancer”

Agency: Tamil Nadu State Council for Science and Technology

Period: 2023

Amount: Rs. 10,000

Principal Investigator: Dr. K. M Saradhadevi

Title of the Project: “Dendrimer..... in Breast Cancer”

Agency: Tamil Nadu State Council for Science and Technology

Period: March 2021 to March 2023

Amount: Rs. 1,70,000

Principal Investigator: Dr. K. M Saradhadevi

Title of the Project: “Development of Cost Effective Hydroponic System for Women” Agripreneurs.

Agency: RUSA 2.0 – BEICH

Period: Dec 2020 – May 2020

Amount: Rs. 8,00,000

Principal Investigator: Dr. K. M Saradhadevi

Title of the Project: “Detection of health risk assessment of instant noodles in Wistar albino rats”

Agency: Tamil Nadu State council for Science and Technology

Period:2019

Amount: Rs. 10,000

Principal Investigator: Dr. K. M Saradhadevi

Consultancy Projects

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

Research Guidance

- [Post Doc.](#)

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

Ongoing

Completed

Ongoing

Ph. D ongoing:

Name: Gayathiri. G

Title of the Thesis: “ Assessment of Regulatory Mechanism of.....in Ovarian cancer”

Name: Anjali K. R

Title of the Thesis: “Assessment of Differential Expression and.....in Breast Cancer”

Name: Hemalatha. S

Title of the Thesis: “Assessment of Regulation of.....in Cervical Cancer”

Completed

Ongoing

Completed

M. Phil completed:

Name: Anjali K.R

Title of the Thesis: Biosynthesis of Silver Nanoparticles and it's in vitro assessment against Cervical cancer

Year of Award: 2021

Ongoing

Completed

Name: Peter Linus Kilambo

Title of the Thesis: Evaluating the enhanced apoptotic effect of piperine conjugated chitosan nanoparticle in ovarian cancer

Year of Award: 2023

Name: Vijay Sree S

Title of the Thesis: Exploring the potential of Curcuma zedoaria chitosan entrapped silver nanoformulation in triple negative breast cancer via Wnt signalling

Year of Award: 2023

Name: Sneha S

Title of the Thesis: Analysing the anti tumorigenic effect of Plumbago zeylanica extract mediated synthesis of nickel oxide nanoparticles in breast cancer cell lines via warburg effect

Year of Award: 2023

Name: Pavithra S

Title of the Thesis: Assessment of berberine loaded silver nanoparticle on EMT mediated signalling in colon cancer

Year of Award: 2023

Name: Ajay S

Title of the Thesis: Assessment of Lactobacillus plantarum mediated nickel oxide nanoparticle on the differential expression of Vitamin D receptor in colon cancer

Year of Award: 2023

Name: Sobiya R A

Title of the Thesis: Assessment of autophagy inducing effect of Tectona grandis dendrimer decorated nanoparticle in breast cancer

Year of Award: 2023

Name: Harshini. S

Title of the Thesis: Synthesis and Characterization of Chitosan Entrapped Nanoparticles of Nyctanthesarbor-tristis and its Anti-Cancer Activity in Breast cancer cell lines via induction of apoptosis

Year of Award: 2022

Name: Durganjali G

Title of the Thesis: Synthesis and characterization of PAMAM dendrimer decorated Lactobacillus plantarum and its anti-cancer activity in breast cancer cell lines via induction of autophagy and apoptosis

Year of Award: 2022

Name: Ramesh Babu. S

Title of the Thesis: Synthesis and Characterization of Zinc Oxide Nanoparticles of Glycyrrhiza glabra and its Anti-Cancer Activity via EMT Pathway in Triple negative breast cancer cell lines

Year of Award: 2022

Name: Swetha. S

Title of the Thesis: Anticancer effect of methanolic extracts of Citrus hystrix leaf silver nanoparticles by inducing autophagy in cervical cancer cells

Year of Award: 2021

Name: Divya Tharani S

Title of the Thesis: Synthesis and characterization of chitosan entrapped-Aegle marmelos silver nanoparticles and its Anti tumorigenic activity on cervical cancer via EMT pathway

Year of Award: 2021

Name: Steffy Thomas

Title of the Thesis: Synthesis and characterization of ZnO nanoparticles of Solanum nigrum and its anticancerous activity via the induction of apoptosis in cervical cancer

Year of Award: 2021

Name: Mrudhulla. S

Title of the Thesis: Synthesis and characterization of Nickel nanoparticles of Gloriosa superba and its anticancerous activity via the inhibition of Angiogenesis in cervical cancer

Year of Award: 2021

Name: Aswathi.E

Title of the Thesis: Synthesis and characterization of chitosan encapsulated piperine nanoparticles and its anticancer activity on HeLa cell line

Year of Award: 2020

Name: Swathi P.R

Title of the Thesis: Waste To Wealth: Conversion of Waste Resources into Biopolymers and its Applications

Year of Award: 2020

Name: M. Malarkodi

Title of the Thesis: Synthesis and characterization of chitosan encapsulated probiotic (Lactobacillus plantarum) nanoparticles and its anti-cancerous activity on HeLa cell lines

Year of Award: 2020

Name: T. Nandinipriya

Title of the Thesis: Role of non Coding Rna (Pirs) on Elite Athletes Based on Their Diet and Behaviour Pattern: an Observational Study

Year of Award: 2020

Name: S. K. Aswinsooriya

Title of the Thesis: Synthesis and Characterization of Chitosan Encapsulated Probiotic (Lactobacillus rhamnosus) Nanoparticle and its Anticancerous Activity on Cervical cancer

Year of Award: 2020

Name: P. Vinithra

Title of the Thesis: Optimisation of condition for encapsulation of naringin loaded zein nanoparticles and its invitro toxicological evaluation in Caco-2 cells

Year of Award: 2019

Name: D. Karthika

Title of the Thesis: Synthesis and characterization of Berberine loaded silver nanoparticles and its effect in HCT-116 cancer cell lines

Year of Award: 2019

Name: Gayathiri. S. Variar

Title of the Thesis: Characterization, cytotoxic effect and molecular docking studies of piperine conjugated nanoparticles

Year of Award: 2019

Name: Mohamed Ajmal

Title of the Thesis: Synthesis and characterization of curcumin loaded chitosan nanoparticles and its anticancer activity on HCT-116 cell lines

Year of Award: 2019

Name: K R Jevan Kumar

Title of the Thesis: Characterization and molecular docking studies of Bryophyllum pinnate encapsulated chitosan nanoparticles

Year of Award: 2018

Name: R Kanagavalli

Title of the Thesis: Cytogenetic and molecular analysis of MTRR gene and neurotransmitter analysis of parkinsons disease at Tamil Nadu population

Year of Award: 2018

Name: P Loganayaki

Title of the Thesis: Isolation identification, growth characterization and biochemical composition of amphora Sp cultured under nitrogen limitation

Year of Award: 2018

Name: A Dhivya

Title of the Thesis: Cytogenic and molecular analysis in ovarian cancer patients

Year of Award: 2018

Name: M Ponnarasi

Title of the Thesis: Amoxicillin Conjugated Achyranthesaspera gold Nanoparticles assemble as potent anti-microbial and anticancer agent

Year of Award: 2017

Name: K Sathya

Title of the Thesis: Evaluation of antifungal activity of selected medical plants against Aspergillus niger

Year of Award: 2017

Name: T Tjithin

Title of the Thesis: Production and Purification of Nattokinase by Bacillus subtilis

Year of Award: 2017

Name: D Gokila

Title of the Thesis: Evaluation of antioxidant, anticancer and anticancer activity of medicinally important plant "Phyllanthusniruri leaf and root extract"

Year of Award: 2017

Name: P Kiruthiga

Title of the Thesis: Industrial application of mangrove derived organisms in dye decolourization

Year of Award: 2017

Research Publication

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

2011 - 2024

Title: Differential expression of Nickel nanoparticles of Lactobacillus plantarum on VDR/LncRNA EIF3J-DT in Colorectal Cancer

Name of the Authors: Saradhadevi Muthukrishnan, Anjali K Ravi, Ajay S, Gayathiri Gunasangaran, Hemalatha Senthilkumar, Vijaya Anand Arumugam, Velayuthaprabhu Shanmugam, Sakthivel Kunnathur Murugesan, Gurusaravanan Packiaraj, Arun Muthukrishnan, Ashokkumar Kaliyaperumal.

Journal name: Medicine in Omics

Title: Influence of Borassus flabellifer Endocarps Hydrolysate on Fungal Biomass and Fatty Acids Production by the Marine Fungus Aspergillus sp.

Name of the Authors: Nancy Mary Thomas, Vinoth Sathasivam, Muralisankar Thirunavukarasu, Arun Muthukrishnan, Saradhadevi Muthukrishnan, Vasanthkumar Rajkumar, Gayathiri Velusamy, Gurusaravanan Packiaraj.

Journal name: Applied Biochemistry and Biotechnology

Title: Influences of Ethanolic Extract of Peltophorum pterocarpum Leaves and Bark on Lipid Profile, Liver and Carbohydrate Metabolizing Enzymes on Toxin-induced Wistar Rats

Name of the Authors: Maria Jerline, Ramasamy Manikandan, Muthukrishnan Saradhadevi, Balasubramanian Balamuralikrishnan, Mohd Younis, Arumugam Vijaya Anand

Journal name: Free radicals and Antioxidants

Title: Influence of SERPINA1 Gene Polymorphisms on Anemia and Chronic Obstructive Pulmonary Disease

Name of the Authors: Thangavelu Sangeetha, Tajuddin Nargis Begum, Balasubramanian Balamuralikrishnan, Meyyazhagan Arun, Kannan R. R. Rengasamy, Natchiappan Senthilkumar, Shanmugam Velayuthaprabhu, Muthukrishnan Saradhadevi, Palanisamy Sampathkumar, Arumugam Vijaya Anand

Journal name: Journal of the Renin-Angiotensin-Aldosterone System

Title: Combination of Probiotics and Natural Compounds to Treat Multiple Sclerosis via Warburg Effect

Name of the Authors: Anjali Kandiruthi Ravi and Saradhadevi Kuppusami Muthukrishnan

Journal name: Advanced Pharmaceutical Bulletins

Title: Regulatory Components of Oxidative Stress and Inflammation and their Complex Interplay in Carcinogenesis

Name of the Authors: Dharshini LCP, Rasmi RR, Kathirvelan C, Kumar KM, Saradhadevi KM, Sakthivel KM.

Journal name: Applied Biochemistry and Biotechnology

Title: Antioxidant and antidiabetic activity of *Andrographis paniculata* and *Rhinacanthus nasutus* in isoniazid and rifampicin induced Wistar rats

Name of the Authors: Govindraj Akilandeswari, Ramasamy Manikandan, Shanmugam Velayuthaprabhu, Muthukrishnan Saradhadevi, Balamuralikrishnan Balasubramanian, Arumugam Vijaya Anand

Journal name: Natural Resources for Human Health

Title: Biosynthesis of silver nanoparticles using *Citrus hystrix* leaf extract and evaluation of its anticancer efficacy against HeLa cell line

Name of the Authors: Swetha Srimurugan, Anjali K. Ravi, Vijaya Anand Arumugam & Saradhadevi Muthukrishnan.

Journal name: Drug Development and Industrial Pharmacy

Title: Nanoformulation of Tetrapyrroles Derivatives in Photodynamic Therapy: A Focus on Bacteriochlorin

Name of the Authors: Pragya Pallavi, Karthick Harini, Vijaya Anand, Pemula Gowtham, Koyeli Girigoswami, Saradhadevi Muthukrishnan, Agnishwar Girigoswami

Journal name: Evidence-Based Complementary and Alternative Medicine

Title: Preparation, Characterization, and Anticancer Efficacy of Chitosan, Chitosan Encapsulated Piperine and Probiotics (*Lactobacillus plantarum* (MTCC-1407), and *Lactobacillus rhamnosus* (MTCC-1423) Nanoparticles

Name of the Authors: Gayathiri Gunasankaran, Anjali K. Ravi, Vijaya Anand Arumugam, Saradhadevi Muthukrishnan

Journal name: Bio nanoscience

Title: Efficiency of *Coriandrum sativum* (Linn.) and *Petroselinum crispum* (Mill.) in enhancing the iron absorption-an in silico and invitro approach

Name of the Authors: T. Sangeetha, K. Syed Ibrahim, S.Deepa, B. Balamuralikrishnan, M. Arun, S. Velayutha prabhu, K. M. Saradhadevi, A. Vijaya Anand

Journal name: Evidence based complementary and alternative medicine.

Title: Effects of biogenic synthesis of chitosan entrapped silver nanoparticle from *Aegle marmelos* on human cervical cancer cells (HeLa)

Name of the Authors: Divya Tharani Sukumar, Gayathiri Gunasangkar, Vijaya Anand Arumugam, Saradhadevi Muthukrishnan

Journal name: Journal of drug delivery science and technology

Title: Synthesis and Characterization of Zinc Oxide Nanoparticles of *Solanum nigrum* and Its Anticancer Activity via the Induction of Apoptosis in Cervical Cancer

Name of the Authors: Steffy Thomas, Gayathiri Gunasangkar, Vijaya Anand Arumugam, Saradhadevi Muthukrishnan

Journal name: Biological Trace Element Research

Title: Free Radical Scavenging Potentials of Antioxidants Present in Aqueous and Ethanolic Leaf and Bark Extracts of *Peltophorum Pterocarpum* (Dc.) Baker Ex K Heyne.

Name of the Authors: M Jerline Babu, G Bupesh, A Vijaya Anand, KM Saradhadevi, Pranjal Bharali

Journal name: Biochemical & Cellular Archives

Title: Medicinal plants, Phytochemicals and Herbs to Combat Viral Pathogens Including SARS-CoV-2

Name of the Authors: Vijaya Anand Arumugam, Balamuralikrishnan Balasubramanian, Kaviya Mohandass, Bharathi Kathirvel, Parithathvi Aluru, Arun Meyyazhagan, Senthilkumar Nachiappan, Velayutha prabhu shanmugam, Saradhadevi Muthukrishnan, Naif Abdullah Al-Dhabi, Mariadhas ValanArasu, Mohd. Iqbal Yattoo, Ruchi Tiwari, Kuldeep Dhama

Journal name: Molecules

Title: Identification of novel potent pancreatic lipase inhibitors from *Ficus racemosa*

Name of the Authors: Vijaya Anand, V. Bharathi, G. Bupesh, N. Jaya Lakshmi, Saradhadevi K. M.

Journal name: Biomedicine

Title: Bio stimulant activity of sulphated polysaccharide extract from red seaweed *Halymeniadilatata* on yield of Mung bean at green house conditions

Name of the Authors: Vinoth Sadasivam, Gurusaravanan P., Arun M., Saradhadevi K. M., Senthilkumar N., Gowtham P., Sivakumar S.R.

Journal name: Journal of Applied Phycology

Title: In vitro efficacy of antioxidant activity in ethanolic and aqueous leaf extracts of *Andrographilpaniculata* Nees and *Rhinacanthusnastus* Kurz

Name of the Authors: Akilandeswari G., Bupesh G., Vijaya Anand A., Saradhadevi K. M., Mayur Mausoom Phukan, and Meenakumari K.

Journal name: International Journal of Research in Pharmaceutical Sciences

Title: An intended review on phytopharmacology of *Rhinacanthusnastus* (Linn.) Kurz

Name of the Authors: Akilandeswari G., Vijaya Anand A., Saradhadevi K. M., Manikandan R., Bharathi V.

Journal name: Journal of Natural Remedies

Title: Effects of probiotics on the metabolic pathways of Warburg effect in cancer model – a review

Name of the Authors: Kiruthiga P., Saradha Devi K M.,

Journal name: International Journal of Research in Engineering, Science and Management.

Title: Recent advances in radiotherapy and its associated side effects in cancer – a review

Name of the Authors: Mohan G., AyishaHamna T P., Jijo A J., Saradha Devi K M., Arul Narayasamy and Balachandar Vellingiri,

Journal name: The Journal of Basic and Applied Zoology.

Title: Identification and determination of naturally occurring folates in grains of rice *Oryzasativa* L. by UPLC-MS/MS analysis

Name of the Authors: Ashok kumar, K., Sivakumar, P. and Saradhadevi, K.M.

Journal name: Natural Product Research.

Title: Anticancer effects of silver nanoparticles encapsulated by *Gloriosasuperba* (L.) leaf extracts in DLA tumor cells

Name of the Authors: Saradhadevi Muthukrishnan, Balachandar Vellingiri, Gnanadesigan Murugesan

Journal name: Future Journal of Pharmaceutical Sciences

Title: Phyto fabrication and encapsulated of silver nanoparticles from *Gloriosa superba*.

Name of the Authors: Saradhadevi, K.M., Annapoorani, S. and Ashokkumar, K.,

Journal name: Materials letters.

Title: Dataset on antitumor properties of silver nanoparticles from *Gloriosa superba* (L.) seed on Dalton lymphoma ascites (DLA) tumor: Facile, and biocompatible approach.

Name of the Authors: Saradhadevi, K.M., Gnanadesigan, M., Kapildev, G. and Vasanth, D.

Journal name: Data in Brief.

Title: Anticancer, antimicrobial and other pharmacological properties of shikonin and its derivatives.

Name of the Authors: Saradhadevi, K.M., Ashok kumar, K. and Dhivya, S.

Journal name: International Journal of Pharmacognosy and Phytochemical Research

Title: Identification and determination of flavonoids, carotenoids and chlorophyll concentration in *Cynodondactylon* (L.) by HPLC analysis.

Name of the Authors: Saradhadevi, K.M., Ashokkumar, K. and Annapoorani, S.

Journal name: Natural Product Research: Formerly Natural Product Letters.

Title: Anti-oxidative activity of methanolic extract of *Gloriosasuperba* seed, tuber and leaves.

Name of the Authors: Saradhadevi, K.M. and Annapoorani, S.

Journal name: International Journal of Pharmaceutical Research and Development

Title: Reverse phase-high performance liquid chromatography-diode array detector (RP-HPLC-DAD) analysis of flavonoids profile from curry leaf (*Murrayakoenigii*. L).

Name of the Authors: Ashokkumar, K., Selvaraj. K. and Saradhadevi, K. M.

Journal name: Journal of Medicinal Plants Research.

Title: (*Cynodondactylon* L.) Pers.: An updated review of its phyto chemistry and pharmacology.

Name of the Authors: Ashokkumar, K., Selvaraj, K. and Saradhadevi, K.M.

Journal name: Journal of Medicinal Plants Research

Title: Phytochemical Constituents of *Gloriosa superba* seed, tuber and leaves.

Name of the Authors: Saradhadevi, K.M. and Annapoorani, S.

Journal name: Research Journal of Pharmaceutical, Biological and Chemical Sciences

Title: Hepatic anti-oxidative potential of ethyl acetate fraction of Cynodondactylon in Balb/c mice.

Name of the Authors: Saradhadevi, K.M., Annapoorani, S. and Ashokkumar, K.

Journal name: Journal of Medicinal Plants Research

Title: Evaluation of the immunomodulatory activities for ethyl acetate fraction of Cynodondactylon in Balb/c mice.

Name of the Authors: Saradhadevi, K.M., Annapoorani, S. and Ashokkumar, K.

Journal name: Journal of Agricultural Sciences

Title: Homology modeling and structure prediction of thioredoxin (TRX) protein in wheat (*Triticumaestivum* L.).

Name of the Authors: Prabhavathi, M., Ashokkumar, K., Geetha, N. and Saradhadevi, K.M.

Journal name: International Journal of Biosciences

Title: Phytochemicals investigation of Ficus Glomerata Linn leaves.

Name of the Authors: Poongothai, A., Sreena, K.P., Saradhadevi, K.M., Santhi, R. and Annapoorani, S.

Journal name: Research Journal of Pharmaceutical, Biological and Chemical Sciences

Title: Facile synthesis of silver nanoparticles using medicinally important *Gloriosa superba* (L.) leaf extract for enhanced antioxidant and anticancer activities.

Name of the Authors: Saradhadevi, K.M., Balachandar, V. and Gnanadesigan, M.

Journal name: Future Journal of Pharmaceutical Sciences

Title: Characterization of flavonoid fraction of *Cynodon dactylon* by RP-HPLC and GC-MS techniques

Name of the Authors: KM Saradha Devi, S Annapoorani

Journal name: 3 rd Indo Korean Joint Seminar on Medicinal Plant Research Paper

Title: Biochemical profile of Calotropis procera.

Name of the Authors: Saradhadevi, K.M., Annapoorani, S. and Murugesan, S.

Journal name: The Madras Agriculture Journal

Title: Antifungal activity analysis of Calotropis procera,

Name of the Authors: Saradhadevi, K.M., Annapoorani, S. and Murugesan, S.

Journal name: The Madras Agriculture Journal

2008 - 2024

Title: Biochemical profile of Calotropisprocera.

Name of the Authors: Saradhadevi, K.M., Annapoorani, S. and Murugesan, S.

Journal name: The Madras Agriculture Journal

Title: Antifungal activity analysis of Calotropisprocera

Name of the Authors: Saradhadevi, K.M., Annapoorani, S. and Murugesan, S.

Journal name: Madras Agricultural Journal

2020 - 2022

Patent title: Method of Nanoparticles

Grant No: 202041002956

Status: Awarded

2017 - 2024

Position: Organizing Secretary

Title: Two Days Hands-on Workshop on “Quantitative Real-Time PCR by SYBR Green Chemistry”

Department: Department of Biochemistry

Institute: Bharathiar University

Period: 10th - 11th January, 2024

Position: Chairperson

Title: National conference on Millet cultivation and conservation of plants in herbal garden

Department: Department of Botany & Department of Biochemistry

Institute: Bharathiar University

Period: 21st - 22nd December, 2023

Position: Organizing Secretary

Title: Five Days Hands-on Training workshop in “Advanced cell culture techniques for cancer research”

Department: RUSA 2.0 BCTRC & Department of Biochemistry

Institute: Bharathiar University

Period: 1st - 5th Aug, 2022

Position: Organizing Secretary

Title: Hybrid Automobiles Emerging Business Opportunities and Adaptable Technology for Indian Automobile Industry

Department: Institutions Innovation Council & Department of Biochemistry

Institute: Bharathiar University

Period: 11th May, 2022

Position: Organizing Secretary

Title: Workshop on Design Thinking, Critical thinking and Innovation Design

Department: Institutions Innovation Council & Department of Biochemistry

Institute: Bharathiar University

Period: 26th Feb, 2022

Position: Organizing Secretary

Title: “Bio Carnival 2019 – One-day Lecture Workshop on Contemporary in Biological Sciences (CBS-2019)”

Department: Department of Biochemistry

Institute: Bharathiar University

Period: 22nd Oct, 2019

Position: Organizing Secretary

Title: “Three days’ Workshop and Hands on Training on “BIO-TOOLS”

Department: Department of Human Genetics and Molecular Biology

Institute: Bharathiar University

Period: 20th - 22nd May, 2019

Position: Organizing Secretary

Title: “International Conference on Science and Humanities for Grooming the Future: An Interdisciplinary approach (ICSHI)- 2018”

Department: College Development Council

Institute: Bharathiar University

Period: 07th- 09th Feb, 2018

Position: Organizing member

Title: “International Conference on Biosciences & Bioinformatics”(ICBB2017)

Department: Department of Biochemistry, Biotechnology, Microbial Biotechnology and Bioinformatics

Institute: Bharathiar University

Period: 14th-16th Dec, 2017.

Books (Year Wise):

INTERNATIONAL:

Title: Stem Cell Biotechnology

Name of the Authors: Ponmurugan, P. and Saradhadevi, K.M.

Publisher: International Society for Green, Sustainable Engineering and Management, Kolkata

Title: Antitumor efficacy of Gloriosa superba (Nano synthesis)

Name of the Authors: Saradhadevi, K.M.

Publisher: Lambert Academic Publishing, Germany

Title: Phagocytic index of flavonoid fraction of Cynodon dactylon,

Name of the Authors: Saradhadevi, K.M.

Publisher: Lambert Academic Publishing, Germany

NATIONAL:

Title: Dictionary of Life Sciences

Name of the Authors: Ashok kumar, K., Saradhadevi, K.M., Karthik M. and Arun kumar, N.

Publisher: Sara Book Publication, New Delhi

Book Chapters

Title: Enzymatic production of methane and its purification processes

Name of the Authors: Saradhadevi K. M., Anjali K. R., Karthikeyan R., Vijaya Anand A., Sivamurugan V.

Name of the Book: Bio chemicals and Materials Production from Sustainable Biomass Resources

Publisher: Elsevier

Title: Hydrodeoxygenation of lignin to hydrocarbons

Name of the Authors: Priya. P, Saradhadevi K.M., Vijaya anand A., Gopal jaya., Ravikumar Dhanalakshmi., Vajiravelu Sivamurugan.

Name of the Book: Bio chemicals and Materials Production from Sustainable Biomass Resources

Publisher: Elsevier

Title: Enzymatic production of organic acids via microbial Fermentative processes

Name of the Authors: Saradhadevi K. M., Gayathiri G., Kiruthiga P., Karthikeyan R., VijayaAnand A., Sivamurugan V.

Name of the Book: Bio chemicals and Materials Production from Sustainable Biomass Resources

Publisher: Elsevier

Title: Novel Organic and Inorganic Nanoparticles as a Targeted Drug Delivery Vehicle in cancer treatment

Name of the Authors: Saradhadevi Muthukrishnan., Vijaya Anand Arumugam, Kiruthiga Palanisamy, Gayathiri Gunasankaran, Anjali K Ravi.

Name of the Book: Emerging Nanomaterials for Advanced Technologies

Publisher: Springer

Title: Artificial Intelligence in Disease Diagnosis via Smartphone Applications

Name of the Authors: Saradhadevi Muthukrishnan

Publisher: CRC Press, Taylor & Francis Group, New York

Title: Cardamom as a Source of Biologically Active Compounds: Essential Oil and Biological Activity

Name of the Authors: Kaliyaperumal Ashokkumar, Muthusamy Murugan, M. K. Dhanya, Arjun Pandian, Saradhadevi Muthukrishnan and Sampathrajan Vellaikumar.

Publisher: Nova Science Publishers, New york.

Title: Fungi: A novel source for the biologically active secondary metabolites

Name of the Authors: Arjuna, P., Rmasubbu, R., Saradhadevi, K. M., Rameshd, S., Subashinie, R., Hariprasath, L., Kumaresan, K., Bharathiraja, C., and Paari, K.A

Name of the Book: Microbial Biodiversity

Publisher: Cambridge Scholars Publishing

Title: The role of microbes in the food industries: Beneficial and Non-beneficial

Name of the Authors: Saradhadevi, K. M., Velayutha prabhu, S., Arjun, P., Mallikarjun Gundappa and Ravi, M.

Name of the Book: Microbial Biodiversity

Publisher: Cambridge Scholars Publishing

Title: Recent Advancements in the Discovery of Novel Anti-Malarial Leads – A Comprehensive Overview of in vitro, in-vivo and in-silico Approaches

Name of the Authors: Usha, S, Saradhadevi, K. M., Kapildev, G. and Gnanadesigan. M.

Publisher: Shree Publishers and Distributors, New Delhi

Alumini Reflections: