

Dr. MAYA M.R.

88/1, Door no.103 Krishna reddy building

Doddanagamangala, Near Anjaneya temple, Electronic City (PO), Bangalore 560100.

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To be employed in an organization pursuing challenging career teaching and research and to obtain a position that will enable me to use my strong practical skills and educational background.

PROFESSIONAL SYNOPSIS

- i) Currently associated with Department of Biotechnology, AMC (Affiliated to Bangalore University), Bennarghatta Road, Bangalore as **Assistant Professor**.(11.02.2022 to till date).
- ii) Worked as **R&D and Scientific Co-ordinator** at Care keralam Ltd. Kinfra Park, Thrissur, Kerala from 07/12/2018 to 10/02/2022.
- iii) **Technical Editor (health medicine)** in Focus Medica under Panther publishers, Bangalore from 3/9/2009 to 19/8/2010.
- iv) **Senior Research Fellow** in MoWR project at Regional Agricultural Research Station (Kerala Agricultural University), Pattambi from 10/6/2008 to 31/7/2009.
- v) **Research Assistant** in the KSCSTE project ‘ Nisin as a biopreservative in traditional ayurvedic medicines’, at Sahridaya Engineering college , Kodakara from 25/3/2007 to 28/3/2008
- vi) **Research Fellow** in the DBT Project ‘Exploration of molecular diversity and insecticidal spectrum of *Bacillus thuringiensis* of Western Ghats of India, NE Hill and the Himalayan ranges, establishment of Repository at UAS Dharwad and cloning novel insecticidal genes’; at CPBMB, College of Horticulture, Kerala Agricultural University, Vellanikkara from 1/8/2006 to 10/1/2007.

SCHOLASTICS

Degree	Percentage of marks	University	Year of pass
PhD in Biotechnology	Bioactive compounds of <i>Capsicum frutescens</i> fruit extracts and their antidiabetic activity against streptozotocin – nicotinamide induced diabetic Wistar albino rats.	Periyar University	July 2022

M.Phil. Biotechnology	84%	Periyar University	February,2017
M.Sc. Biotechnology	74%	University Calicut	of September,2005
B.Sc. Biotechnology	70%	University Calicut	of April,2003
Plus Two	55%	Kerala State Board of Education	April,2000
S.S.L.C.	76%	Kerala State Board of Education	March,1998

MEMBERSHIP AND CERTIFICATION

Certification of four days training programmer **on Laboratory Accreditation and Internal Quality Audit as per ISO/IEC 17025:2017.**

Reviewer of an International peer reviewed journal - Journal of Natural Remedies (ISSN:2320-3358)

Review committee Member (ID 114787) of an International peer reviewed journal - Journal of Emerging Technology and Innovative Research (ISSN: 2349-5162)

INVITED LECTURES DELIVERED

S. No	Title of the Invited Lecture	Title of the Event	Organised by	Date of Presentation	Level
1	The importance of water quality indexing and bioremediation	Special Lecture	St.Mary's College, Affiliated to University of Calicut	October,2022	National
2	Nanobiotechnology in biology and health sciences	DBT sponsored National Conference on innovations in biomaterials and bionanotechnology	MGR College, Hosur	10 th November 2022	National

Projects Handled

- i) “Bioactive compounds of *Capsicum frutescens* fruit extracts and their antidiabetic activity against streptozotocin –nicotinamide induced diabetic Wistar albino rats”. at M.G.R College of Arts and Science, Hosur, 2021.
- ii) “Study on Phytochemical and Antioxidant pattern in *Costus pictus*”, Project work in “Serological and Nucleic acid based Detection of DioscoreaalataBadna Virus (DaBV) in lesser yam, *D. esculenta*”, at Central Tuber Crops Research in (ICAR), Thiruvananthapuram, 2005.
- iii) Project work in “Determination of Potability of water samples from various sources” under Calicut University 2003.

THESIS SUPERVISION

S.No	Experience in guiding research students	Awarded (in figures)	Under submission (in figures)
1.	PG	8	6

RESEARCH PUBLICATIONS

Book Publication

1. A study on phytochemical and antioxidant pattern in *Costus pictus*. LAP Lambert Academic Publishing (ISBN 978-620-6-15136-4).

Book Chapter Publication

1. Industrial and pharmaceutical applications of enzymes submitted to book Advances in Enzymology: Role in Industrial and pharmaceutical applications. (ISBN 978-93-92239-51-9).

International Papers

1. **Maya, M.R.**, K. Rameshkumar, V. Veeramanikandan, T. Boobalan, M. Kumar, M. Eyini, A. Arun, Arivalagan Pugazhendhi, P. Balaji. 2022. Evaluation of antioxidant, anti-inflammatory, and anti-hyperglycemic effects of *Wattakakavolubilis* Linn. f. Process Biochemistry. 112: 183 – 191.

<https://doi.org/10.1016/j.procbio.2021.12.001> (Impact factor: 3.757)

M. R. Maya, V. Ananthi, A. Arun, P. Kumar, M. Govarthan, K. Rameshkumar, V. Veeramanikandan &

P. Balaji (2021) Protective efficacy of *Capsicum frutescens* fruits in pancreatic, hepatic and renal cell injury and their attenuation of oxidative stress in diabetic Wistar rats, Journal of Taibah University for Science, 15:1, 1232- 1243, <https://doi.org/10.1080/16583655.2021.2024998>(Impact Factor: 2.688)

2. **Maya, M. R.**, Ramanaiah, I., Venkatakrishna, K., Rameshkumar, K., Veeramanikandan, V., Eyini, M., and Balaji P. 2019. Investigation of Bioactive Compounds of *Capsicum frutescens* and *Annona muricata* by Chromatographic Techniques. Journal of Drug Delivery and Therapeutics. 9(4): 485-495
3. **Maya, M. R.**, Ramanaiah, I., Venkatakrishna, K., Rameshkumar, K., Veeramanikandan, V., Eyini, M., and Balaji, P. 2019. Evaluation of antioxidant potential of *Capsicum frutescens*. Journal of Drug Delivery and Therapeutics. 9(2-s), 376-382
4. Madhanraj R, Ravi Kumar K, **Maya MR**, Ramanaiah I, Venkatakrishna K, Rameshkumar K, Veeramanikandan V, Eyini M and Balaji P. 2019. Evaluation of anti-microbial and anti-haemolytic activity of edible basidiomycetes mushroom fungi, Journal of Drug Delivery and Therapeutics. 9(1):132-135.
5. Identification of Bioactive compounds and Protein inhibitory activity by using different solvent extractions of *Annona Muricata*. Ravi Kumar, Madhanraj R, **Maya M R**, Ramanaiah Illuri, , Venkata Krishna K, Rameshkumar K, Veeramanikandan V, Eyini M and Balaji P IJPBS, 2019; **9(1)**: 387-398.

Conference Proceedings

- Pathophysiological role of genetic factors associated with type 2 diabetes in DBT sponsored International conference on genetic disorders in human conducted during 2nd and 3rd March 2023, by MGR College, Hosur.
- Histopathological Profiles of Rats (*Rattus norvegicus*) Induced with Streptozotocin and Treated with Acetone Fruit Extracts of *Capsicum frutescens* International Conference - Inbix'22, conducted during 31st Oct- 02nd November, by Department of Biotechnology, VFSTR University, Guntur).
- Biosynthesis of silver nanoparticles using red seaweed *Gracilaria gracilis* and characterization for antimicrobial activity. Proceedings of National conference on Advances in microbial biotechnology: current trends and future prospects (AMBT- 2022), Bangalore University, 2022.
- Investigation of bioactive compounds of *C. frutescens* and *Annona muricata* in 3rd International Conference on Recent trends in Microbiology (RTM-2019), RUSA 2.0 & INSA Sponsored organized by department of Microbiology, Alagappa University, 2019.
- Antioxidant potential of *Capsicum frutescens* in 7th National congress Advances in Bioplastics, 2019.
- Shanmugasundaram B, Ilangoan R, **Maya M R**, Rajitha and Salini PP. 2008. Up-scaling of SRI in Palakkad district of Kerala through Padasekhara Samithies. pp. 57-58. In: Extended Summaries of the 3rd National Symposium on System of Rice Intensification in India – Policies, Institutions and Strategies for Scaling Up. 1-3 December 2008, Tamil Nadu Agricultural University, Coimbatore.

Paper Presentation

Participated and presented a paper titled Biosynthesis of silver nanoparticles using redseaweed *Gracilaria gracilis* and characterization for antimicrobial activity. National conference on Advances in microbial biotechnology: current trends and future prospects(AMBT-2022), Bangalore University,2022.

- Participated and presented a paper titled Antioxidant potential of *Capsicum frutescens* in DST-SERB sponsored 7th National conference on Emerging Trends and Newchallenges in Biotechnology conducted by Department of Biotechnology, MGR College, Hosur on 30th, 31st January, 2019.
- Presented a paper in the 3rd International conference on Recent trends in Microbiology organized by department of Microbiology Alagappa University, Karaikudi during 24th-25th January 2019.
- Presented a paper titled Bioactive compounds of *Capsicum frutescens* in the two days national conference on Future prospects of Biotechnology in Indial scenario, held at Adiyaman College of Engineering, Hosur on 28th February and 1st March 2018.
- Presented a paper on “A study on Phytochemical and Antioxidant Pattern in *Costuspictus* in the 5th National Congress in Biotechnology, conducted by Department of Biotechnology, MGR College, Hosur on 2.2.2017.

Activities Conducted

Organizing Committee member - Two days workshop on Basics of Bioinformatics for beginners organized by AMC in association with Karnataka Science and Technology Academy.

Technical Expertise

- i) In vitro and in vivo Antioxidant assays, Phytochemical assays, Antimicrobial assays, TLC of medicinal plant extracts
- ii) Isolation and characterization of *Bacillus thuringiensis*, Crystal protein isolation, DNA, RNA and plasmid isolation.
- iii) PCR techniques : PCR, RT-PCR, RACE, IC-PCR, IC-RT-PCR
- iv) ELISA techniques : DAC-ELISA, DAS-ELISA
- v) Immuno blotting assays : DIBA, TIBA
- vi) Purification techniques : SDS-PAGE
- vii) In vivo Antidiabetic Studies in rodent models.
 - Toxicology Studies : Acute (OECD 423)
 - Pharmacological StudiesMetabolic disorder models: Diabetes

TRAININGS UNDERTAKEN

- iv) Science Academies two day lecture workshop on recent trends in Microbiology and Biotechnology held from 30- 31 January 2018 at the PG and Research Centre in Microbiology, M.G.R College, Hosur.
- v) Project Trainee in the state govt. project Biotech Kerala – ‘Biotechnological interventions and opportunities towards enhancing the crop productions in Kerala’ at CPBMB, College of Horticulture, Kerala Agricultural University, Vellanikkarafrom 1/4/2006 to 31/7/2006.

vi) 'Medical Microbial Techniques' at Jubilee Mission Medical College and Research Institute, Thrissur, May 2004 from 1/5/2004 to 31/5/2004.

TECHNICAL KNOW HOW

Well versed working knowledge in MS Windows Operating System (98, 2000, XP and Vista), MS Office Packages and Adobe Photoshop, Corel Graphics and Internet Applications.

PERSONAL DOSSIER

Date of Birth: 01.11.1982

Linguistics: English, Malayalam, Hindi, Tamil, Kannada

REFERENCES

1.	Dr. P. Balaji Head, PG&ResearchCentrr in BiotechnologyMGR College Dr. MGR Nagar, Hosur – 635 109. Tamilnadu, India. Mobile: +91-9843907474 E-mail:balaji_paulraj1@yahoo.com	2.	Dr.ShanSasidharan Director Research and Development at Care keralamLTD and Pankajakasthuri herbals India ltd, Kerala Mobile: 9188325339 Email: drshan@pkhil.com
3.	Dr. A. Muthumoni, Principal, MGR College Dr. MGR Nagar, Hosur – 635 109. Tamilnadu, India. Phone: +91 – 4344 – 261004 (O) Mobile: +91-94438 91217 E-mail: mgrprincipal@yahoo.co.in	4.	Dr.M.L.JEEVA Principal Scientist, Division of Crop Protection, Central Tuber Crops Research Institute, Trivandrum-695017, India. E.mail :jkvn2002yahoo.com Mobile: 09446102163.

Place: Bangaore

Date: 11.05. 2023

Maya M.R

Signature