**DEPARTMENT OF BIO TECHNOLOGY**

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| --- | --- | --- |
| **SL. NO.** | **NAME OF THE STAFF** | **DESIGNATION** |
| 1 | Dr. V.R. Punithavathi | HEAD OF THE DEPARTMENT |
| 2 | Mrs. S. Saritha , M.Sc, M.Phil., B.Ed. (Ph.D) | ASSISTANT PROFESSOR |
| 3 | Mrs. P. Tharanya, M.Sc, M.Phil., | ASSISTANT PROFESSOR |
| 4 | Mrs.L.Nivetha,M.Sc., | ASSISTANT PROFESSOR |
| 5 | Mrs. R.Kokila, M.Sc.,DMLT | ASSISTANT PROFESSOR |



# PERSONAL PROFILE

|  |  |
| --- | --- |
| Name | Dr. V.R. Punithavathi |
| Designation | Head & Assistant Professor, Department of Biotechnology |
| Father’s name | V.N. Ranganathan |
| Date of Birth | 05-June-1979 |
| Address for Communication |  |
| Office | M.M.E.S. Women’s Arts & Science College |
|  | Department of Biotechnology |
|  | Melvisharam-632509, Ranipet District |
| Email id. | punithavathivr@gmail.com |

 SCHOLISTIC PROFILE

|  |  |  |
| --- | --- | --- |
| *Educational**Qualification* | *Institution / University* | *Year of**passing* |
| Ph.D Biochemistry | Annamalai University, Chidambaram | May 2011 |
| M.Phil Biochemistry | Annamalai University, Chidambaram | Sep 2007 |
| M.Sc Biochemistry | Adhiparasakthi College of Science, Kalavai, University of Madras | Apr 2002 |
| B.Sc Chemistry | Arignar Anna Govt Arts College, Walajapet, University of Madras | Apr 1999 |

DISSERTATION AND THESIS

|  |  |  |  |
| --- | --- | --- | --- |
| COURSE |  TITLE | INSTITUTION | YEAR |
| Ph.D. | “Combined effects of quercetin and α-tocopherol in normal and isoproterenol induced myocardial infarcted Wistar rats” | Annamalai University, Chidambaram | May 2011 |
| M.Phil. | “Combined effects of Naringin and Vitamin-C on lipid peroxides, non-enzymatic antioxidants and glycoproteins in Streptozotocin-Induced Diabetic Rats” | Annamalai University, Chidambaram | Sep 2007 |

TEACHING EXPERIENCE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No. | INSTITUTION | From | To | No. of Years |
| 1 | M.M.E.S. Women’s Arts & Science College | 01-09-2016 | Till Date | 6 |

JOURNAL PUBLICATIONS

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Title  | Journal Details | Year |
| 1 | The Wnt-β-Catenin-IL-10 Signaling Axis in Intestinal APCs Protects Mice from Colitis-Associated Colon Cancer in Response to Gut Microbiota | J Immunol. 2020 Oct 15;205(8):2265-2275 | 2020 |
| 2 | GPR81, a Cell-Surface Receptor for Lactate, Regulates Intestinal Homeostasis and Protects Mice from Experimental Colitis | J Immunol. 2018 Mar 1;200(5):1781-1789 | 2018 |
| 3 | Canonical Wnt Signaling in CD11c+ APCs Regulates Microbiota-Induced Inflammation and Immune Cell Homeostasis in the Colon |  J Immunol. 2018 May 1;200(9):3259-3268 | 2018 |
| 4 | Homeostatic PPARα Signaling Limits Inflammatory Responses to Commensal Microbiota in the Intestine | J Immunol. 2016; 196:4739-4749 | 2016 |
| 5 | Histone deacetylase-mediated silencing of AMWAP expression contributes to cisplatin nephrotoxicity | Kidney Int. 2016; 89:317-326 | 2016 |
| 6 | MicroRNA-150 deletion in mice protects kidney from myocardial infarction induced acute kidney injury | Am J Physiol Renal Physiol. 2015; 309(6):F551-558 | 2015 |
| 7 | Honey feeding protects kidney against cisplatin nephrotoxicity through suppression of inflammation | Clin Exp Pharmacol Physiol. 2015; 42(8):843-848 | 2015 |
| 8 | Deletion of UNC5B in Kidney Epithelium Exacerbates Diabetic Nephropathy in Mice | Am J Nephrol. 2015; 41(3): 220-230 | 2015 |
| 9 | MicroRNA-150 protects the mouse heart from ischaemic injury by regulating cell death | Cardiovasc Res. 2015; 106(3): 387-397 | 2015 |
| 10 | Urinary semaphorin 3A correlates with diabetic proteinuria and mediates diabetic nephropathy and associated inflammation in mice | J Mol Med-JMM. 2014; 92(12): 1245-1256 | 2014 |
| 11 | Mouse models and methods for studying human disease, acute kidney injury (AKI) | Methods Mol Biol. 2014; 1194: 421-436 (Book Chapter) | 2014 |
| 12 | Guidance cue netrin-1 and the regulation of inflammation in acute and chronic kidney disease | Mediators Inflamm. 2014; 2014: 525891 (Review article) | 2014 |
| 13 | Semaphorin 3A inactivation suppresses ischemia-reperfusion-induced inflammation and acute kidney injury | Am J Physiol Renal Physiol. 2014; 307(2): F183-194 | 2014 |
| 14 | UNC5B receptor deletion exacerbates DSS-induced colitis in mice by increasing epithelial cell apoptosis | J Cell Mol Med. 2014; 18(7): 1290-1299 | 2014 |
| 15 | UNC5B receptor deletion exacerbates tissue injury in response to AKI | J Am Soc Nephrol. 2014; 25(2): 239-249 | 2014 |
| 16 | CXCR2 knockout mice are protected against DSS-colitis-induced acute kidney injury and inflammation | Am J Physiol Renal Physiol. 2013; 305(10): F1422-1427 | 2013 |
| 17 | Semaphorin 3A is a new early diagnostic biomarker of experimental and pediatric acute kidney injury | PLoS One. 2013; 8(3): e58446 | 2013 |
| 18 | Netrin-1 regulates the inflammatory response of neutrophils and macrophages, and suppresses ischemic acute kidney injury by inhibiting COX-2-mediated PGE2 production | Kidney Int. 2013; 83(6): 1087-1098 | 2013 |
| 19 | Netrin-1 regulates colon-kidney cross talk through suppression of IL-6 function in a mouse model of DSS-colitis | Am J Physiol Renal Physiol. 2013; 304(9): F1187-1197 | 2013 |
| 20 | Proximal tubule-specific overexpression of netrin-1 suppresses acute kidney injury-induced interstitial fibrosis and glomerulosclerosis through suppression of IL-6/STAT3 signaling | Am J Physiol Renal Physiol. 2013; 304(8):F1054-1065 | 2013 |
| 21 | Netrin-1-treated macrophages protect the kidney against ischemia-reperfusion injury and suppress inflammation by inducing M2 polarization | Am J Physiol Renal Physiol. 2013; 304(7): F948-957 | 2013 |
| 22 | Kidney proximal tubular epithelial-specific overexpression of netrin-1 suppresses inflammation and albuminuria through suppression of COX-2-mediated PGE2 production in streptozotocin-induced diabetic mice | Am J Pathol. 2012; 181(6): 1991-2002 | 2012 |
| 23 | Intracellular kinases mediate increased translation and secretion of netrin-1 from renal tubular epithelial cells | PLoS One. 2011; 6(10): e26776 | 2011 |
| 24 | Protective effects of gallic acid on hepatic lipid peroxide metabolism, glycoprotein components and lipids in streptozotocin-induced type II diabetic Wistar rats | [J Biochem Mol Toxicol.](http://www.ncbi.nlm.nih.gov/pubmed/21472896) 2011; 25(2): 68-76 | 2011 |
| 25 | The cardioprotective effects of a combination of quercetin and α-tocopherol on isoproterenol-induced myocardial infarcted rats | J Biochem Mol Toxicol. 2011; 25(1): 28-40 | 2011 |
| 26 | Antihyperglycaemic, antilipid peroxidative and antioxidant effects of gallic acid on streptozotocin induced diabetic Wistar rats | Eur J Pharmacol. 2011; 650(1): 465-471 | 2011 |
| 27 | Protective effects of combination of quercetin and α-tocopherol on mitochondrial dysfunction and myocardial infarct size in isoproterenol-treated myocardial infarcted rats: biochemical, transmission electron microscopic, and macroscopic enzyme mapping evidences | J Biochem Mol Toxicol. 2010; 24(5): 303-312 | 2010 |
| 28 | Protective effects of rutin on mitochondrial damage in isoproterenol-induced cardiotoxic rats: an in vivo and in vitro study | Cardiovasc Toxicol. 2010; 10(3): 181-189 | 2010 |
| 29 | Pretreatment with a combination of quercetin and alpha-tocopherol ameliorates adenosine triphosphatases and lysosomal enzymes in myocardial infarcted rats | Life Sci. 2010; 86(5-6): 178-184 | 2010 |
| 30 | Combined effects of quercetin and alpha-tocopherol on lipids and glycoprotein components in isoproterenol induced myocardial infarcted Wistar rats | Chem Biol Interact. 2009; 181(3): 322-327 | 2009 |
| 31 | Combined treatment with naringin and vitamin C ameliorates streptozotocin-induced diabetes in male Wistar rats | J Appl Toxicol. 2008; 28(6): 806-813 | 2008 |

GENBANK SUBMISSION

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Title  | Details | Year |
| 1 | *Bacillus subtilis* strain PLT-1 16S ribosomal RNA gene, partial sequence | GenBank: MH145409.1 | 2018 |
| 2 | *Aeromonas veronii* strain MMESR 16S ribosomal RNA gene, partial sequence | GenBank: ON527535.1 | 2022 |

Board of Studies (Subject Expert)

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | College | Programme | Year |
| 1 | Department of Biotechnology, Islamiah College (Autonomous), Vaniyambadi | UG and PG Biotechnology | 2019-2022 |
| 2 | D.K.M College for Women, Vellore | UG and PG Biotechnology | 2020 |

PARTICIPATED

1. Dr. V. R. Punithavathi, Head Department of Biotechnology has participated and successfully completed two weeks National Level online Faculty Development Programme on “Current Trends & Innovations in Biological Science” organized by Faculty of Allied Health Science in association with Chettinad Institution’s Innovation Council, Chettinad Academy of Research & Education, Kelambakkam from 22.08.2022 to 7.09.2022
2. Dr. V. R. Punithavathi, Head Department of Biotechnology has attended Two days National Level Virtual Seminar on “The Necessity of NAAC in Non- Accredited Institutions to Promote Holistic Development of Quality Education” organized by IQAC, Muthayammal College of Arts & Science in association with NAAC on 17th and 18th November 2022
3. Dr. V. R. Punithavathi, Head Department of Biotechnology has participated in five days Virtual Faculty Development Programme on “Positive Aspects of Teaching Practices” held on 20.02.2023 to 24.02.2023 organized by IQAC and PG Research Department of Commerce, Theivanai Ammal College for Women, Villupuram.

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#  PERSONAL PROFILE

|  |  |
| --- | --- |
| Name | Mrs. S. Saritha , M.Sc, M.Phil., B.Ed. (Ph.D) |
| Designation | Assistant Professor |
| Father’s name | P. Sivaraju |
| Date of Birth | 27-12-1983 |
| Address for Communication |  |
| Office | M.M.E.S. Women’s Arts & Science College |
|  | Department of Biotechnology |
|  | Melvisharam-632509, Ranipet District |
| Email id. | sarithasuresh2712@gmail.com |

SCHOLISTIC PROFILE

|  |  |  |
| --- | --- | --- |
| *Educational**Qualification* | *Institution / University* | *Year of**passing* |
| Ph. D Biochemistry | D.K.M College for Women, Thiruvalluvar University | 2022 |
| M.Phil. Biochemistry | Adiparasakthi College of Arts & Science, Thiruvalluvar University | 2012 |
| B. Ed | S.K.B College of Education, University of Madras | 2008 |
| M. Sc Biochemistry | Jaya College of Arts and Science, University of Madras | 2007 |
| B. Sc Biochemistry | Bhaktavatchalam Memorial College for Women, University of Madras | 2005 |

DISSERTATION AND THESIS

|  |  |  |  |
| --- | --- | --- | --- |
| COURSE |  TITLE | INSTITUTION | YEAR |
| Ph.D. | Sustainable approach for the biosynthesis of TiO2 & silver nanoparticles and evaluation of its bioremedial applications | D.K.M College for Women | 2018-2022 |
| M.Phil. | Immunomodulatory & antiinflammatory activity of hypersensitivity reactions | Adiparasakthi College of Arts & Science | 2013 |

TEACHING EXPERIENCE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No. | INSTITUTION | From | To | No. of Years |
| 1. | M.M.E.S Women’s Arts & Science College | 22-01-2013 | Till Date | 11 |

JOURNAL PUBLICATIONS

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Title  | Journal Details | Year |
| 1 | Green Synthesis of Nanoparticles and Their Possible Avenues in Environmental Applications  | International Journal of Current Microbiology and Applied SciencesIssn:2319-7706 | 2019 |
| 2 | Bacterial Mediated Biosynthesis of Silver Nanoparticles and Evaluation of its Antimicrobial and Antilarvicidal efficacy | International Journal of Current Microbiology and Applied SciencesIssn:2319-7706 | 2022 |
| 3 | Green Synthesis of TiO2  Nanoparticles Using Mesophilic Bacterial Strain *Bacillus subtilis* Sp2  and its Characterization. | International Journal of Current Microbiology and Applied SciencesIssn:2319-7706 | 2022 |

GEN BANK SUBMISSION

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Title  | Details | Year |
| 1 | Candidatus Chryseobacterium massiliae strain MMESA 16S ribosomal RNA gene, partial sequence | NCBI GenBank: ON527523.1 | 2022 |

PARTICIPATED

1. Mrs. S. Saritha, Assistant Professor, Department of Biotechnology has participated and successfully completed two weeks National Level online Faculty Development Programme on “Current Trends & Innovations in Biological Science” organized by Faculty of Allied Health Science in association with Chettinad Institution’s Innovation Council, Chettinad Academy of Research & Education, Kelambakkam from 22.08.2022 to 7.09.2022
2. Mrs. S. Saritha, Assistant Professor, Department of Biotechnology has participated in five days Virtual Faculty Development Programme on “Positive Aspects of Teaching Practices” held on 20.02.2023 to 24.02.2023 organized by IQAC and PG Research Department of Commerce, Theivanai Ammal College for Women, Villupuram.
3. Mrs. S. Saritha, Assistant Professor, Department of Biotechnology has attended the Faculty development Programme on TNASDC – Health Apex- Medical Coding for Employability conducted by Naan Mudhalvan Scheme at Thiruvalluvar university, Vellore - 632115 from 06-02-2023 to 10-02-2023.



# PERSONAL PROFILE

|  |  |
| --- | --- |
| Name | Tharanya.P |
| Designation | Assistant Professor |
| Father’s name | Pichaimuthu. V |
| Date of Birth | 20.10.1991 |
| Address for Communication |  |
| Office | M.M.E.S. Women’s Arts & Science College |
|  | Department of Biotechnology |
|  | Melvisharam-632509, Ranipet District |
| Email id. | tharan2720@gmail.com |

SCHOLISTIC PROFILE

|  |  |  |
| --- | --- | --- |
| *Educational**Qualification* | *Institution / University* | *Year of**passing* |
| M.Phil Biotechnology | Thiruvalluvar University, Serkkadu |  2015 |
| M.Sc Biotechnology | Thiruvalluvar University, Serkkadu |  2014 |
| B.Sc Plant Biology & Biotechnology | Arignar Anna Govt Arts College, Walajapet, Thiruvalluvar University. |  2012 |

DISSERTATION AND THESIS

|  |  |  |  |
| --- | --- | --- | --- |
| COURSE | TITLE | INSTITUTION | YEAR |
| M.Phil. | Biogenic Approach of Synthesis of Titanium Dioxide Nanoparticles Using A Halophilic Bacterial Isolate – *Chromohalobacter salexigen* Strain Pmt-1 | Thiruvalluvar University, Serkkadu | 2015 |

TEACHING EXPERIENCE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No | INSTITUTION | From | To | No. of Years |
| 1. | M.M.E.S Womens Arts and Science College, Melvisharam | 16-07-2016 | Till Date | 6 Years |

JOURNAL PUBLICATIONS

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Title  | Journal Details | Year |
| 1 | Biogenic Approach of Synthesis of Titanium Dioxide Nanoparticles Using A Halophilic Bacterial Isolate – *Chromohalobacter salexigen* Strain Pmt-1 | International Journal of Current Research & Academic Review | 2015 |

GENBANK SUBMISSION

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Title  | Details | Year |
| 1 | *Bacillus aryabhattai* strain NSB 2 16S ribosomal RNA gene, partial sequence | GenBank: MK743937.1 | 2019 |
| 2 | *Candidatus Chryseobacterium* *massiliae* strain MMESA 16S ribosomal RNA gene, partial sequence | GenBank: ON527523.1 | 2022 |
| 3 | Aeromonas veronii strain MMESR 16S ribosomal RNA gene, partial sequence | GenBank: ON527535.1 | 2022 |

PARTICIPATED

1. Mrs. P. Tharanya, Assistant Professor, Department of Biotechnology has participated and successfully completed two weeks National Level online Faculty Development Programme on “Current Trends & Innovations in Biological Science” organized by Faculty of Allied Health Science in association with Chettinad Institution’s Innovation Council, Chettinad Academy of Research & Education, Kelambakkam from 22.08.2022 to 7.09.2022
2. Mrs. P. Tharanya, Assistant Professor, Department of Biotechnology has participated in five days Virtual Faculty Development Programme on “Positive Aspects of Teaching Practices” held on 20.02.2023 to 24.02.2023 organized by IQAC and PG Research Department of Commerce, Theivanai Ammal College for Women, Villupuram.



# PERSONAL PROFILE

|  |  |
| --- | --- |
| Name | Nivetha L |
| Designation | Assistant Professor |
| Father’s name | Loganathan M |
| Date of Birth | 30.08.1998 |
| Address for Communication |  |
| Office | M.M.E.S. Women’s Arts & Science College |
|  | Department of Biotechnology |
|  | Melvisharam-632509, Ranipet District |
| Email id. | nivethadragon@gmail.com |

SCHOLISTIC PROFILE

|  |  |  |
| --- | --- | --- |
| *Educational**Qualification* | *Institution / University* | *Year of**passing* |
| M.Sc Biotechnology | M.M.E.S Women’s Arts and Science College, Melvisharam, Ranipet | 2020 |
| B.Sc Biotechnology | M.M.E.S Women’s Arts and Science College, Melvisharam, Ranipet | 2018 |

DISSERTATION AND THESIS

|  |  |  |  |
| --- | --- | --- | --- |
| COURSE | TITLE | INSTITUTION | YEAR |
| M. Sc Biotechnology | Preliminary Analysis of *Trigonella Foenum-Graecum* | M.M.E.S Women’s Arts and Science College, Melvisharam, Ranipet | 2020 |

TEACHING EXPERIENCE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No | INSTITUTION | From | To | No. of Years |
| 1. | M.M.E.S Women’s Arts and Science College, Melvisharam, Ranipet | 11.02.2021 | Till Date | 1 Year and 9 Months |

GENBANK SUBMISSION

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Title  | Details | Year |
| 1 | Bradyrhizobium neotropicale strain MMESM 16S ribosomal RNA gene, partial sequence | NCBI, GenBank ID: ON527528.1 | 2022 |

PARTICIPATED

1. Ms. L. Nivetha, Assistant Professor, Department of Biotechnology has participated and successfully completed two weeks National Level online Faculty Development Programme on “Current Trends & Innovations in Biological Science” organized by Faculty of Allied Health Science in association with Chettinad Institution’s Innovation Council, Chettinad Academy of Research & Education, Kelambakkam from 22.08.2022 to 7.09.2022
2. Ms. L. Nivetha, Assistant Professor, Department of Biotechnology has participated in five days Virtual Faculty Development Programme on “Positive Aspects of Teaching Practices” held on 20.02.2023 to 24.02.2023 organized by IQAC and PG Research Department of Commerce, Theivanai Ammal College for Women, Villupuram.



# PERSONAL PROFILE

|  |  |
| --- | --- |
| Name | Mrs. R.Kokila  |
| Designation | Assistant Professor |
| Father’s name | Ramesh A |
| Date of Birth | 05-01-1995 |
| Address for Communication |  |
| Office | M.M.E.S Women’s Arts and Science College |
|  | Department of Biotechnology |
|  | Melvisharam-632509 |
| Email id. | kokila05.r@gmail.com |

SCHOLISTIC PROFILE

|  |  |  |
| --- | --- | --- |
| *Educational**Qualification* | *Institution / University* | *Year of**passing* |
| M.Sc Biotechnology | M.M.E.S Women’s Arts and Science College, Melvisharam, Ranipet | 2018 |
| B.Sc Biotechnology | M.M.E.S Women’s Arts and Science College, Melvisharam, Ranipet | 2016 |
| PG DMLT | AIMLTA, PATNA | 2017 |

DISSERTATION AND THESIS

|  |  |  |  |
| --- | --- | --- | --- |
| COURSE | TITLE | INSTITUTION | YEAR |
| M.Sc Biotechnology | Identification of Porcine Circovirus 2 In Pigs | M.M.E.S Women’s Arts and Science College, Melvisharam, Ranipet | 2018 |

TEACHING EXPERIENCE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S.No | INSTITUTION | From | To | No. of Years |
| 1. | M.M.E.S Women’s Arts and Science College, Melvisharam, Ranipet | 11.04.2022 | Till Date | 7 months |

GENBANK SUBMISSION

|  |  |  |  |
| --- | --- | --- | --- |
| S.No. | Title  | Details | Year |
| 1 | Bacillus cereus strain MMESS 16S ribosomal RNA gene, partial sequence | NCBI GenBank: ON567387.1 | 2022 |

PARTICIPATED

1. Mrs. R. Kokila, Assistant Professor, Department of Biotechnology has participated in five days Virtual Faculty Development Programme on “Positive Aspects of Teaching Practices” held on 20.02.2023 to 24.02.2023 organized by IQAC and PG Research Department of Commerce, Theivanai Ammal College for Women, Villupuram.
2. Mrs. R. Kokila, Assistant Professor, Department of Biotechnology has attended the Faculty development Programme on TNASDC – Health Apex- Medical Coding for Employability conducted by Naan Mudhalvan Scheme at Thiruvalluvar university, Vellore - 632115 from 06-02-2023 to 10-02-2023.
3. Mrs. R. Kokila, Assistant Professor, Department of Biotechnology has participated and successfully completed two weeks National Level online Faculty Development Programme on “Current Trends & Innovations in Biological Science” organized by Faculty of Allied Health Science in association with Chettinad Institution’s Innovation Council, Chettinad Academy of Research & Education, Kelambakkam from 22.08.2022 to 7.09.2022