BIODATA

Name & Qualification : Dr. R. Manikandan M.Sc., Ph.D

Designation : Assistant Professor

Department Name : Biochemistry

Email id : mani_r_trichy@yahoo.co.in
Official id : manikandanr@sigc.edu

Specialization :Phytotherapeutics and Clinical Biochemistry



PROFESSIONAL MEMBERSHIP:

Total Teaching Experience : 14.2 Years Industry Experience if any : Nil

Research Experience : 7 Years Guideship : -

No. of Scholars who have taken their doctorates under my guidance and their details : - No. of Scholars who have taken their M.Phil under my guidance and their details : -

No. of research articles published in UGC CARE/ SCOPUS/ WEB of SCIENCE indexed

journals: UGC CARE – 10; SCOPUS - 08

Number of Research articles Published : 28

Book Chapters: 04

Google Scholar Citations: 332 Scopus Citations: 67

h-index: 11 h-index: 05

i10-index: 11

LIST OF ARTICLES PUBLISHED IN JOURNALS IN CHRONOLOGICAL ORDER:

- Arumugam Vijaya Anand, **Ramasamy Manikandan**, TajuddinNargis Begum, KalaiyarasanVijaya Kumar, Govindarajan Akilandeswari, Maria Britto Jerline and Palanisamy Sampath Kumar (2011). Hypertension, diabetes, metabolic syndrome, inflammation and the risk of stroke. *Int J Biol Med Res.* 2(1): 429-432.
- G. DuraiMuthumani, A.Vijaya Anand and **R.Manikandan** (2013). Antioxidant, antihelmintic and antimicrobial activity of *Euphorbia thymifolia* Linn whole plant. *Int.J.Curr.Microbiol.App.Sci.* (2013) 2(1): 66-79.
- **R.Manikandan**, A.Vijaya Anand and G. DuraiMuthumani. (2013) Phytochemical and *in vitro* anti-diabetic activity of methanolic extract of *Psidium guajava* leaves *Int.J.Curr.Microbiol.Appl.Sci.* 2(2): 15–19.

- Shakeera Bhanu M, Sujatha K, Sridharan G and **Manikandan R**. (2013). Antihyperglycemica and antihyperlipidemic potentials of *Psidium guajava* in alloxan induced diabetic rats. *Asian journal of pharmaceutical and clinical research*. 6(1).
- B. Varalakshmi, A. Vijaya Anand, T. Karpagam, J. Suguna Bai and **R. Manikandan.** (2014). In *vitro* antimicrobial and anticancer activity of Cinnamomum zeylanicum linn bark extracts. Int J PharmPharmSci. 6(1). 12-18.
- **R. Manikandan,** A. Vijaya Anand, K. Vijayakumar. (2014). A review on Hepatoprotective activity of Psidium guajava. Am. J. PharmTech Res. 4(5).
- **R. Manikandan** and A. Vijaya Anand. (2015). A review on antioxidative activity of Psidiumguajava. Research J. Pharm. And Tech. 8(3).
- K. Vijayakumar, A. Vijaya Anand and **R. Manikandan** (2015). *In vitro* antioxidant activity of ethanolic extract of *Psidium guajava* leaves. *International journal of Research Studies in Biosciences*. 3(5).
- **R. Manikandan** and A. Vijaya Anand. (2016). Evaluation of Antioxidant activity of *Psidium guajava* Linn in streptozotocin induced diabetic rats. *Free Radical and Antioxidant Journal*. 6(1).
- **R.Manikandan**, A.Vijaya Anand, P. Sampathkumar and Pushpa (2016). Phytochemical and *in vitro* anti-diabetic activity of *Psidium guajava* leaves. *Pharmacognosy Journal*. Vol. 8(4): 392-394.
- Vijaya Anand, **Manikandan**, Vijaya Kumar, Sampath Kumar, Pushpa and AgaathHedina. (2017). Phytopharmacological overview of *Psidium guajava* Linn. *Pharmacognosy Journal*. Vol. 8(4): 314-320.
- Ramasamy Manikandan, Arumugam Vijaya Anand, Rengasamy Lakshminarayan Rengarajan, Puthamohan Vinayakamoorthi, Radhakrishnan Ramalingam. (2017). In vitro Antioxidant activity of Extracts of Psidium guajava leaves. PTB Reports. 3(3): 50-54.
- **R. Manikandan,** A. VijayaAnand, P. Sampathkumar and N. Manoharan. (2018). Protective effect of *Psidium guajava* leaf ethanolic extract against streptozotocin induced diabetes and lipidosis in rats. *Indian Journal of Animal Research*. Vol. 52 (8): 1198-1205.
- Panneerselvam Punniyakotti, Rengasamy Lakshminarayanan Rengarajan, Shanmugam Velayuthaprabhu, Kalaiyarasan Vijayakumar, **Ramasamy Manikandan** and Arumugam Vijaya Anand. (2019). Protective effect of Terminalia catappa leaves and Terminalia chebula fruits on the enzymatic and non-enzymatic anti-oxidants levels in the doxorubicin induced toxicity rats. *Pharmacognosy Journal*. Vol. 11(2): 346-349.
- Ramasamy Manikandan and Kalaiyarasan Vijayakumar (2020). *In vitro* anti-diabetic activity of *Syzygium cumini* seeds. Asian Journal of Medical and Health Research. 2020. 5(2):1-6.
- **R. Manikandan,** A. Vijaya Anand, S. Velayuthaprabhu, R.L. Rengarajan and V. Bharathi. Acute toxicity and dose fixation of the ethanolic extract of *Psidium guajava*. *Journal of Natural Remedies*. 21(4-S2): 2020.

- J. Jaychitra, M. Akshaya, V. Bharathi, C. Ruth Christiya and **R. Manikandan**.(2020). Phytochemical Analysis and GC-MS analysis of herbal formulation powder. *Journal of Natural Remedies*. 21(4-S2): 43-49.
- G. Akilandeswari, A. Vijaya Anand, K.M. Saradevi, R. **Manikandan** and V. Bharathi. An intended review on phytopharmacology of Rhinacanthus nasutus (Linn) Kurz. *Journal of Natural Remedies*. 21(4-S2): 2020.
- Jayachithra, Janani, Bharathi and **Manikandan**. (2020). Phytochemical analysis and mineral composition of methanolic extract of *Boerhavia diffusa* L. *Research Journal of Pharm and Tech*. 13(10): October-2020. Accepted.
- K. Vijayakumar, A. Vijaya Anand, **R. Manikandan**, N. Manoharan, P. Sampathkumar and T. Nargis Begum. (2020). Hepatoprotective effects of Psidium guajava on mitochondrial enzymes and inflammatory markers in carbon tetra chloride induced hepatotoxicity. Drug Development and Industrial Pharmacy. (Taylor & Francis).
- B. Varalakshmi, Jannathul Firdous, T. Karpagam, A. Shanmugapriya V. Sugana, P. Anitha, S. Gomathi, **R. Manikandan**, T. Abarna, N. Abirami and Jeyarani. (2021). Nano phytoremediation for textile dye degradation using abutilon indicum silver nanoparticles: photo catalytic activities. Jouranl of Medical Pharmaceutical and Allied Sciences. 10.22270/jmpas.2021.V1016.1939.
- Gurupalraj Durai Muthu Mani, Balasubramaniam Balamuralikrishnan, **Ramasamy Manikandan**, Palanisamy Sampathkumar, Meyyazhagan Arun, Rengasamu R Lakshminarayanan, Wen-Chao Liu and Arumugam Vijaya Anand. (2022). Effects of Euphorbia thymmifolia and Euphorbia hirta leaf extracts on membrane-bound, mitochondrial enzymes and lipid profile of carbon tetrachloride-induced hepatotoxicity rats. Natural Resources for Human Health. https://doi.org/10.53365/nrfhh/146770.
- Ramasamy Manikandan, Balamuralikrishnan Balasubramanian, Panneerselvam Punniyakotti, Arumugam Vijaya Anand, Arun Meyyazhagan, Shanmugam Velayuthaprabhu, Rengasamy Lakshminarayanan Rengarajan, Utthapon Issara and Wen-Chao Liu. (2022). Cardio-protective effects of Terminalia catappa leaves and Terminalia chebula fruit extract in doxorubicin-induced cardiomyopathy in rats. Biomarkers. https://doi.org/10.1080.1354750X.2022.2064550.
- Balamuralikrishnan Balasubramanian, wen-Chao Liu, Vijaya Anand Arumugam, Durai Muthu Mani Gurupalraj, Manikandan Ramasamy and Shenbagam Madhavan. (2022). Protective effect of Euphorbia thymifolia and Euphorbia hirta against carbon tetrachloride-induced hepatotoxicity in Wistar rats. Drug Development and Industrial Pharmacy. https://doi.org/10.1080/03639045.2022.2122985.
- Ramasamy Manikandan, Balamuralikrishnan Balasubramanian, Arthi Boro, Pushparaj Karthika, Arun Meyyazhagan, Shanmugam Velayuthaprabhu, Arunkumar Malaisamy, Rengasamy Lakshminarayanan Rengarajan. and Arumugam Vijaya Anand. (2023). Impact on cardioprotective effet of Psidium guajava leaves extract in streptozotocininduced Wistar mice with molecular in silico analysis. Quality Assurance and Safety of Crops and Foods. 15(2):209-221.

LIST OF PAPERS PRESENTED IN INTERNATIONAL CONFERENCE

- ➤ Paper entitled on Compound identification and *in-silico* anti-diabetic potential of caryophyllene from *P. guajava* leaves. Integrated nature of life science and its challenges in Research, organized by Dept of Biochemistry (DST-FIST sponsored department), Theivanai Ammal College for Women, Villupuram, held on 06.09.2019.
- ➤ Paper entitled on Activity of *P. guajava* leaves and caryophyllene on hepatic enzymes in stz-induced diabetic rats. Novel approach in cancer research and therapy, organized by PG & Research Department of Biochemistry, STET women's college, Mannargudi, held on 26.09.2019.
- ➤ Paper entitled on Imapact of *P. guajava* leaves extract on the streptozotocin-induced diabetic rats. 5th International Symposium on Phytochemicals in Medicine and Food. Nanchang University, China, held on 25.08.2021 01.09.2021
- ➤ Presented a poster in "International Conference on Research Trends Strategies and Technical Advancements in Biomedical Sciences for Sustainability" on 14.12.22 and 15.12.22, Organized by Research Department of Zoology, SRC, Trichy.
- ➤ Paper presented in "International Conference on Phytotherapeutics (ICPT-2023) on 10th February, organized by STET College, Mannargudi.

Seminar's, FDP and Workshop Attended

- ➤ State level seminar on Recent Trends in Pharmacotherapetics
- > State level seminar on Nanotechnology in Biology and Medicine
- ➤ Participant in Science exhibition, "MIETY EXPO 2007".
- Attended one day (07-01-2011) State Level Seminar on Recent Research in Biological Science organized by Biological and Bioinformatics Research Centre, Trichy.
- ➤ Attended faculty development program on Investor Education-Bishop Heber's College, form 02.02.22 to 09.02.22.
- ➤ Attended the Faculty Development Program on Aligning with the new educational Era-Primax Foundation from 21.02.22 to 26.02.22.
- Attended the Faculty Development Program on "Innovative Pedagogies of the Future in Teaching Learning Process. SIGC, Trichy, from 17.03.22 to 19.03.22.

- ➤ Attended Seven days national level Faculty Development Program on "Basics of Research and Funding Opportunities"- Organized by IOT Academy, from 4th July-2022 to 12th July-2022.
- ➤ Shape Yourself with Siddha, Organized by Department of Chemistry, SIGC, Trichy on 14-07-22.
- ➤ Participated in IP awareness program under "National Intellectual Property Awarness Mission. Organized by Intellectual Property Office, India, on 26.04.2023

Journal Reviewer:

- Archieves of Physiology and Biochemistry.
- Indian Journal of Human Genetics.
- Asian Journal of Research in Biochemistry.

Book Publications:

- **R. Manikandan**. Cell and Molecular Biology. ISBN:978-93-87654-15-9. JAMI Publications.
- **R. Manikandan**. Basics of BioMolecules. ISBN: 978-93-87360-37-2. JAZYM Publications.

Book Chapters:

- Review of Psidium guajava. Plants, Animals and Microbes. IOT Academy.
- Acute toxicity of the ethanolic leaf extract of Euphorbia thymofilia- Thanuj International Publishers.
- "Neuroendocrinology of Fishes" Aquaculture Science and Engineering. Springer Publication. Pg: 209-234.
- "The Different and Basic Functions of Organ system of Fishes"- Aquaculture Science and Engineering. Springer Publication. Pg: 255-274.

Invited Talks:

• Delivered an invited talk on "Nucleic acid and its important" held on 01.12.2018 conducted by the Department of Biochemistry, RVS Agricultural College, Tanjore.