

## Publications

1. Cordelia Mano John, Sumathy Arockiasamy Enhanced Inhibition of Adipogenesis by Chrysin via Modification in Redox Balance, Lipogenesis, and Transcription Factors in 3T3-L1 Adipocytes in Comparison with Hesperidin, *Journal of the American College of Nutrition*, 2021; 1-13, **IF:3.16**
2. Kalaivani M.K, Cordelia Mano John, Bhavana Jonnalagadda , Akila Kesavan , Sumathy Arockiasamy Attenuation of tacrolimus induced oxidative stress, mitochondrial damage, and cell cycle arrest by *Boerhavia diffusa* root fraction in MDCK cell lines. *Iranian Journal of Basic Medical Sciences* 2021; 24:1-11, **IF:2.69**,
3. Cordelia Mano John, Sumathy Arockiasamy. 3,5-Dimethoxy-4-benzoic acid (syringic acid) a natural phenolic acid reduces reactive oxygen species in differentiated 3T3-L1 adipocytes, *In Vitro Cellular & Developmental Biology – Animal*, 2021, 1-9, doi.org/10.1007/s11626-021-00549-7, **IF:1.66**
4. Bhavana Jonnalagadda , Sumathy Arockiasamy , Umashankar Vetrivel & Abhinand P. A. *In silico* docking of phytochemicals to identify potent inhibitors of signaling pathways involved in prostate cancer, *Journal of Biomolecular Structure and Dynamics*, 2020, 1-26, doi.org/10.1080/07391102.2020.1785944 – **IF 3.22**
5. Selvakumar Thanganadar Appapalama , Benedict Paul , Sumathy Arockiasamy ,Rajasekar Panchamoorthy, Phytosynthesized silver nanoparticles: Discovery of antibacterial targets against diabetic foot ulcer derived resistant bacterial isolates, *Materials Science & Engineering C*, 2020, doi.org/10.1016/j.msec.2020.111256 – **IF 5.88**
6. Bhavana Jonnalagadda, Sumathy Arockiasamy, Sriram Krishnamoorthy, Cellular growth factors as prospective therapeutic targets for combination therapy in androgen independent prostate cancer (AIPC), *Life Science*, 2020, doi.org/10.1016/j.lfs.2020.118208 – **IF: 3.647**
7. Cordelia Mano John & Sumathy Arockiasamy, Syringic acid (4-hydroxy-3,5-dimethoxybenzoic acid) inhibits adipogenesis and promotes lipolysis in 3T3-L1 adipocytes, *Natural Product Research*, doi.org/10.1080/14786419.2019.1573820, 2019 – **IF: 1.9**
8. MK Kalaivani, Sumathy Arockiasamy, Cordelia John, Hannah Rachel Vasanthi, P Soundararajan Therapeutic potential of *Boerhavia diffusa* L. against cyclosporine A-Induced mitochondrial dysfunction and apoptosis in madin–Darby canine kidney cells *Pharmacognosy magazine*, 2018, 14, 132-140, **IF: 1.26**
9. Kurupiah Vijayamuthuramalingam UD, Rajaram R, Madhavaram Kuppasamy K, Jonnalagadda B, Arockiasamy S. Anti-hyperglycemic and antioxidant potential of *Croton bonplandianus* Bail fractions in correlation with polyphenol content. *Iran J Basic Med Sci* 2017, 20:1390-1397 doi.org/10.22038/IJBMS.2017.9623, **IF: 1.85**
10. Vijayalatha S, Prema Gurusamy, Sumathy A, Gayatri T N. Structural characterization and antimicrobial activity of compounds isolated from acetone extract of *Piper longum* fruits. *The Ecoscan* 2016, 10(1&2):25-28

11. Bhavana J, Kalaivani MK and Sumathy A. Cytotoxic and pro-apoptotic activities of leaf extract of *Croton bonplandianus* Baill. Against lung cancer cell line A549. *Indian J Exp Biol* 2016, 54: 379-385, **IF: 1.2**
12. Kalaivani MK, Soundarajan P, Hannah R Vasanthi, Sumathy A. *In-vitro* nephroprotective activity of ethanolic root extract of *Boerhaavia diffusa* against cisplatin-induced nephrotoxicity. *International journal of phytomedicine* 2015, 7:388-395
13. Keerthana G, Kalaivani MK, Sumathy A. *In-vitro* alpha amylase inhibitory and antioxidant activities of ethanolic leaf extract of *Croton bonplandianum*. *Asian journal of pharmaceutical and clinical research* 2013, 6(4):32-36, **IF: 0.65**
14. Kalaivani MK, Bhavana J, Sumathy A. GC-MS analysis of chloroform extract of *Croton bonplandianum*. *Int J Pharm Bio Sci* 2013, 4(4):613-617.
15. Prema Gurumurthy, Vijayalatha S, Sumathy A, Asokan M, Naseema M. Hepato-protective effect of aqueous extract of *Piper longum* and piperine when administered with antitubercular drugs. *The Bioscan* 2012, 7(4):661-663.

**Other details**

**Ph.D. Research Guidance:**

Completed – 1

Ongoing – 3

**Post graduate Project Guidance:**

Completed - 5

**Under Graduate Project Guidance:**

Completed – 12

**Conference presentations (Oral and Poster):**

S.No	Name of Author (s)	Title of papers presented	Name of Conference / Seminars etc.,	National/International (Specify)	Place	Year/Date
1	Sumathy Arockiasamy, MK Kalaivani,	"Therapeutic potential of <i>Boerhaavia diffusa</i> against cyclosporine A induced nephrotoxicity by cell cycle arrest and	World Biotechnology Congress	National	Sharda University	2017, Feb 20-22

		inhibition of oxidative stress in MDCK cells”				
2	<b>Sumathy Arockiasamy,</b> Keerthana	“Biochemical composition and In-vitro alpha amylase inhibitory activity of Croton bonplandianum”	National Conference on Traditional Medicine: Untapped Treasure in Modern Drug Discovery	National	Veltech Hightech Dr Rangarajan Dr Sakunthala Engineering College	2013, January 30 <sup>th</sup> & 31 <sup>st</sup>
3	<b>Sumathy Arockiasamy,</b>	“Bioavailability of Anti-tuberculosis Drugs in Patients with Diabetes and Tuberculosis”	National Conference on Diabetes and its Complications	National	Ethiraj college for women	31st January 2012
4	<b>Sumathy Arockiasamy</b> MK Kalaivani, Vinu Ramachandran	“Evaluation of anti-inflammatory activity of fruit of pedallium murex Linn against A549 Ling cancer cell line”	International conference on Traditional Drugs in Disease Management (ICTDDM)	International	Centre for Advance Research in Indian System of Medicine (CARISM), Sastra University, Thanjavur	11th & 12th January 2012

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