

CURRICULUM VITAE

V.L. MARUTHANILA,
Assistant Professor,
A.V.C. College,
Mannampandal,
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EDUCATION

Master of philosophy [2012-14]
Annamalai University,
Chidambaram.
Average Grade Point – 7.30%

Master of Biotechnology [2010-12]
A.V.C. College,
Mannampandal.
Average Grade Point – 7.62%

Bachelor of Biotechnology [2007-10]
A.V.C. College,
Mannampandal.
Average Grade Point – 7.47%

HSC [2006-07]
Sambandam higher secondary school,
Sembanarkoil.
Average percentage-73%

SSLC [2005-06]
Girl's higher secondary school,
Sembanarkoil.
Average percentage-81%

PROJECT DETAILS

Master of Philosophy

- Synergistic anticancer effect of 3, 3'- diindolylmethane in combination with 5-fluorouracil against human cervical cancer (HeLa) cells at Annamalai university, Annamalai Nagar.

Master of Biotechnology

- Studies on the biodegradation of synthetic tanning agent used in leather tanning process at Central Leather Research Institute (CLRI), Chennai.

Bachelor of Biotechnology

- Microbial pigments from *Pseudomonas aeruginosa* and their potential application at A.V.C. College, Mannampandal.

AREA OF INTEREST

- Cancer Biology, New Drug Discovery and Phytomedicine
- Serve as a teacher

PROFESSIONAL EXPERIENCE

Working experience on Analytical instruments like High-performance liquid chromatography (Dionex), Ultraviolet visible spectrophotometer (Shimadzu), Infra-red spectrophotometer (Thermo Scientific), Flash Chromatography (Buchi), Multimode Reader, Speed Extractor.

Techniques: Antioxidant assays (DPPH, Reducing power, ABTS, H₂O₂ Scavenging activities), MTT assay, DNA fragmentation, DAPI staining. Software: Schrödinger Software Operation, SPSS, ANOVA, OriginPro 9.0.

COMPUTER SKILL

- Post Graduate Diploma in Computer Applications (PGDCA) at Aptech computer, Mayiladuthurai.

CO-CURRICULAR ACTIVITIES

- Presented a Paper on Drug Designing in National Seminar on “*Recent advances in bioinformatics*” in A.V.C College, Mannampandal.
- Participated Workshop on “*Molecular biological tools and techniques*” in A.V.C.College, Mannampandal.
- Presented a poster on international conference on “*Recent advances in computational drug design*” in Indian Institute of Science campus, Bangalore.
- Presented a poster on international conference on “*Emerging trends in chemical science (IETC)*” in VIT University, Vellore.
- Presented a paper on “*Role of natural resources in health care*” in University of Madras, Chennai.
- NSS

Publication

1. **V.L.Maruthanila**, J.Poornima and S.Mirunalini. Attenuation of carcinogenesis and the mechanism underlying by the influence of indole-3-carbinol and its metabolite 3,3'-diindolylmethane: A therapeutic marvel. **Advances in Pharmacological Sciences**, 2014, Article ID 832161, 7 pages.
2. R.Elancheran, **V.L.Maruthanila**, M.Ramanathan, S.Kabilan, R.Devi, A.Kunnumakara and Jibon Kotoky. Recent discoveries and developments of Androgen Receptor based therapy for Prostate Cancer. **Med. Chem. Commun.** 2015, 6, 746. DOI: 10.1039/C4MD00416G (2015) (IF-2.61)
3. **V.L.Maruthanila**, R.Elancheran, A.Kunnumakkara, S.Kabilan and Jibon Kotoky. Recent development of targeted approaches for the treatment of breast cancer. **Breast Cancer. (Springer).** 2016, DOI: 10.1007/s12282-016-0732-1 (IF-1.57).
4. Elancheran R, K.Saravanan, S.Divagar, Sima Kumari, **V.L.Maruthanila**, M.Ramanathan, S.Kabilan, R.Devi, and Jibon Kotoky. Design, synthesis and biological evaluation of novel 1,3-thiazolidine-2,4-diones as anti-prostate cancer agents. **Anticancer agents in Medicinal Chemistry.** DOI: 10.2174/1871521409666170412121820 (IF-2.6).
5. Elancheran R, **V.L.Maruthanila**, Mahesh Kumar, Jibon Kotoky and S.Kabilan. Strategy towards Diagnosis and Treatment for Prostate Cancer. **Urol. Res. Ther. J.** 2017; 1(1):115.
6. S.Mirunalini, **V.L.Maruthanila**, S. Isabella. 3,3'-Diindolylmethane and 5-fluorouracil act synergistically to promote apoptosis and modify oxidant-antioxidant status on human cervical cancer (HeLa) cells. **European journal of pharmaceutical and medical science.** 2017, 4(1), 612-619.

7. **V.L.Maruthanila**, Elancheran R, A.Kunnumakkara, S.Kabilan, Jibon Kotoky. Pleiotropic effect of mahanine and girinimbine analogs: anticancer mechanism and its therapeutic versatility. Anticancer agents in Medicinal Chemistry. 2018. Doi: 10.2174/1871520618666180830151720. **(IF-2.6)**
8. **V.L.Maruthanila**, Elancheran R, Nand Kishor Roy, Anupam Bhattacharya, A. Kunnumakkara, S.Kabilan, Jibon Kotoky. In silico molecular modelling of selected natural ligands and their binding features with estrogen receptor alpha. Current Computer-Aided Drug Design, 2018. DOI : 10.2174/1573409914666181008165356. **(IF-1.05)**

PERSONAL DETAILS

Father name	:	R.V. Lenin
Husband name	:	R. Elancheran
Date of birth	:	06 July 1990
Gender	:	Female
Nationality	:	Indian
Mother tongue	:	Tamil
Marital status	:	Married
Languages known	:	English and Tamil

DECLARATION

I hereby declare that all the above mentioned particulars are true to the best of my knowledge and belief.

Place : Mannampandal

Date : 29/03/2019

(V.L. MARUTHANILA)