



**K.S.RANGASAMY COLLEGE OF TECHNOLOGY (Autonomous),
TIRUCHENGODE – 637 215**



DEPARTMENT OF BIOTECHNOLOGY



GENERAL INFORMATION

Name of Faculty : Mr.R.Arulvel

| | | | |
|-----------------|---|--|------------------|
| Date of Joining | : | 03.07.2024 | |
| Department | : | Biotechnology | |
| Designation | : | Assistant Professor | |
| Home Address | : | 331,Min Road,Pappa Illam,Koundchipalayam,V.Vellode Erode District | |
| City : Erode | | State: Tamil Nadu | Pin Code: 638112 |
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EDUCATIONAL CREDENTIALS (STARTING WITH PG DEGREE)*

| Degree | Year | University | Discipline/Specialization |
|--------|------|--|---------------------------|
| M.B.A | 2010 | Kensington College of Buiness, University of Wales | Marketing and Finance |
| M.Tech | 2007 | Annamalai University | Industrial Biotechnology |
| B.Tech | 2004 | School of Engineering & Technology Bharathidasan University Tiruchirappalli | Biotechnology |

EXPERIENCE

a). ACADEMIC EXPERIENCE(STARTING FROM CURRENT)*

| Organisation Name & Address | Designation | Job Description | From | To |
|--|----------------------------|-----------------|-------------------|------------------|
| K. S. Rangasamy College of Technology,Tiruchengode | Assistant Professor | Teaching | 03.07.2024 | Till date |
| . | Assistant Professor | Teaching | 24.10.2018 | 02.07.2024 |
| K.S.Rangasamy College of Technology | Assistant Pofessor | Teaching | 21.12.2010 | 17.10.2018 |

Awards and Achievements

Fellowship/ Awards received:

Young Scientist award

- Received "Young Scientist Fellowship from Tamilnadu State Council for Science and Technology" for the academic year 2012-2013
(Ref No: TNSCST/YSFS/VR/3/2012-2013 dated 29.04.2013)

Member in Professional bodies:

- ❖ Membership in ISTE
- ❖ Membership in IEEE – EMBS

Details of DNA Sequence submitted at NCBI, Maryland, USA.

| S.No | Name of the organisms | Authors | Reference Number | Remarks |
|------|---------------------------|------------------------------------|------------------|-----------|
| 1. | <i>Aspergillus oryzae</i> | Arulvel, R.Prabhu,S.V and Sudhan,S | KP256849 | Published |

Papers published

1. Rashmi Singh , MelvinS. Samuel Madhumita Ravikumar , Selvarajan Ethiraj , V.S. Kirankumar , Mohanraj Kumar **R. Arulvel** , Sagadevan Suresh (2023) A novel approach to environmental pollution management/remediation techniques using derived advanced materials. Chemosphere Impact Factor 8.8. Volume 344, December 2023, 140311
2. Rashmi Singh , Melvin S. Samuel , Madhumita Ravikumar , Selvarajan Ethiraj , Venkatesan Savunthari Kirankumar , Mohanraj Kumar , **R. Arulvel** and Sagadevan Suresh **2023 Processing of Carbon-Based Nanomaterials for the Removal of Pollutants from Water/Wastewater Application. Water Impact factor 3.4**
3. Venkatramanan Varadharajan, Dilip Saravanan Senthilkumar, Kathiresan Senthilkumarar,Venkatesa Prabhu Sundramurthy, Rahul Manikandan, Hariprasath Senthilarasan,Harish Ganesana, Indiravadanan Kesavamoorthy, Arulvel Ramasamy 2022.**Process modeling and toxicological evaluation of adsorption of tetracycline.Water onto the magnetized cotton dust biochar.** Journal of Water Process Engineering. Impact factor (7.00)
4. Sivasubramanian Manikandan, Ramasamy Subbaiya, **Ramaswamy Arulvel**, Nanomaterial Systems – Application on Biofuels and Bioenergys, Book chapter - Elsevier (article in Press) (Scopus & SCI Indexed) [Affiliated To: Saveetha School Of Engineering]
5. Sivasubramanian Manikandan, Natchimuthu Karmegam, Ramasamy Subbaiya, Guruviah Karthiga Devi, **Ramaswamy Arulvel**, Balasubramani Ravindran, Mukesh Kumar Awasthi 2021. **Emerging nanostructured innovative materials as absorbents in waste water treatment. Bioresource Technology**, Vol **320**, Part B, January 2021, 124394. Impact (11.4) (Affiliated to Saveetha School of Engineering) (Affiliated to Saveetha School of Engineering)
6. Karthigadevi, G., Sathish Kumar ,A., **Arulvel ,R.**, Chozhavendhan, S., Subbaiya, R., Barabadi, .H and Saravanan, M 2020 **Comparative antimicrobial and anticancer activity of biologically and chemically synthesized zinc oxide nanoparticles toward breast cancer cells. Nanomedicine.** Vol 7 Issue **04** pp 272-283.

7. Nandakumar Arumugam, Arulvel Ramaswamy and Sundramurthy VenkatesaPrabhu.2021. ***In Vitro* Antilithiasis Activity and Cytoprotective Properties of *Acalypha indica* Extracts.**Current Applied Science and Technology.Vol 21.Issue 02.
8. Murugesan Chandrasekaran and Muthupandian Saravanan Vishnupriyan Varadharaj, Arulvel Ramaswamy, Rajeswari Sakthivel,Ramasamy Subbaiya,Hamed Barabadi 2019.Antidiabetic and antioxidant activity of green synthesised nanoparticles :An **Invitro** study. **Journal of cluster Science**.vol 30.Issue 06. pp 1257–1266 Impact (3.0)
9. Venkatramanan ,V., Arulvel, R., Ronit ,B and Gokulakrishnan, S A 2017. **Differential delivery of vincristine to A549 cells using chitosan capped silver nanoparticles under the pH trigger** Journal of Bionanosciences Vol.11: pp 66–74.
10. Venkatesa Prabhu, S., Uga Waktole, B., Gizachew Assefa and , Arulvel, R 2017.**Effect of temperature on removal of copper from electroplating industrial sludge via biosolubilization: Kinetics and thermodynamics studies.** International Journal of Development Research, Vol. 07, Issue 08: pp.14614-14619
11. Venkatramanan ,V., Sethupathi, S and Arulvel, R. 2016 **Model generation and process optimization of microwave assisted aqueous extraction of anthocyanins from grape juice waste** Journal of Food Process Engineering. Vol. 40 Issue 3: Impact 3.0
12. Venkatramanan ,V., Arulvel, R and Sethupathi, S. 2016 **Silver Nanoparticle Synthesis Using Grape (*Vitis vinifera* L.) skin extract and its application as anticancerous agent"** Advanced Science, Engineering and Medicine Vol. 08: pp 1–9.
13. Venkatramanan , V. , Sudhan , S., Arulvel , R. , Venkatesaprabhu , S and Priyadharshini , C. 2015. **Modeling and verification of process parameters for the production of tannase by *Aspergillus oryzae* under submerged fermentation using agro-wastes"** Biotechnology and applied biochemistry Vol 64 Issue 1: pp 100-109 Impact (2.8)
14. Venkatramanan , V., Sethupathi, S and Arulvel, R. 2015 " **Thrombolytic activity of the ethanolic extract of *Vitis vinifera* seeds** "Bangladesh Journal of Pharmacology Vol 10 Issue 4: pp 964-965. Impact (1.6)
15. Venkatramanan , V., Sethupathi, S and Arulvel, R. 2015 " **Correlation between the total phenolics, proanthocyanidinscontent and anti-oxidant activity of grape seed extract** " Bangladesh Journal of Pharmacology Vol 11 Issue 1: pp 165-167. Impact (1.6)
16. Arulvel , R., GeethaRani, Y and Selvarajan , E. 2014., "**Studies On Kinetic Parameters and biochemical Characteristics Of Polyphenol Oxidase Purified from jackfruit (*Artocarpus Heterophyllus*) Waste**". *International Journal of Pharmacy and Pharmaceutical Sciences* Vol 6 Issue 9: pp 473-478.
17. Venkatesaprabu , S., Arulvel, R., Ishwarya, M., Sriram, T.R. and Arunkumar, C.2013. **Cytotoxic potential of extracts of *Punica granatum* fruits and bark against Hela cell lines.** *International Journal of Pharmacy Research* Vol.2 ,Issue 1: pp 1-14.
18. Mithirai , M., and Arulvel, R, 2013. **Extraction and cytotoxicity Potential of marigold flower (*Calendula officinalis*) against breast Cancer cell line (MCF 7).** International Journal of Lifescience Biotechnology and Pharma Research Vol 2 ,Issue 3: pp 393-400