

**DEPARTMENT OF BIOCHEMISTRY**

**Faculty Name**

Dr. ARANGANATHAN V  
Professor and Program Head (PG Biochemistry)  
School of Sciences



**Specialization**

Environmental Biochemistry, Bioenergy, Phytometabolites

**Education**

- PhD

**Work Experience**

- 21 Years

**Key Areas of Research interest**

- Bioenergy
- Phytometabolites and Pharmacological applications
- Biodegradation

**Publications: (Total - 31)**

- Santhi Sudha S, Aranganathan V, 2021. Bio-profiling of a potential antimycobacterial bacteriocin produced by *Bacillus subtilis* (mk733983) of ethnomedicinal origin. *Journal of Microbiology, Biotechnology and Food science*, Doi:<https://doi.org/10.15414/jmbfs.3259>. Scopus - IF -0.61.
- Santhi Sudha S, Aranganathan V, 2021. Experimental elucidation of an antimycobacterial bacteriocin produced by ethnomedicinal plant-derived *Bacillus subtilis* (MK733983). *Archives of Microbiology*. 203, 1995-2006.
- John Peter Ebenezer Samuel King, Arumugam Kumaresan, Thirumala Rao Talluri, Manish Kumar Sinha, Kathan Raval, Pradeep Nag, Thirumalaisamy Karuthadurai, Veeramani Aranganathan. 2022. Genom-wide analysis identifies Single Nucleotide Polymorphism variations and altered pathways associated with poor semen quality in breeding bulls. *Reproduction in Domestic Animals*. 1-13. DoI: <https://doi.org/10.1111/rda.14185>.
- Nivedita Priyadarshini, Aranganathan V, Pothiraj Chinnathambi, Ayyappan Palanichamy, Munirah Abdullah Al-Dosary, Mohammad Ajmal Ali, Joongku Lee,

Paulraj Balaji. 2022. Antimycobacterial effect of plant derived phthalate against *Mycobacterium tuberculosis* H37Ra. *Physiological and Molecular plant pathology*. 117, 101761. Doi: <https://doi.org/10.1016/j.pmpp.2021.101761>.

**BOOK chapters:**

- Santhi Sudha S and Aranganathan V, 2021. "Symbiotic Interconnections of Arbuscular Mycorrhizal Fungi (AMF) for the Profitability of Agriculture and Industry" – Book Chapter in "Mycorrhizal Fungi - Utilization in Agriculture and Industry" – Intech open publication, London. <http://dx.doi.org/10.5772/intechopen.95458>. ISBN: 978-1-83881-941-5.
- Aranganathan V and Sathish Sekar D, 2016. Bioremediation of Textile Effluent (Reference Book) – *International-E-Publication (Registered publisher under MHRD govt. of India)*. 1-93. ISBN: 978-93-84659-66-0.

**PhD Guidance:**

Completed: 05  
Ongoing: 05

**Projects (External funded/Internal):**

1. Development of biofuel cell test bed and prototype for MICAV applications, DRDO – 37 L (2016 – 2018)
2. Co-immobilization of Cellulases and Hemicellulase for Saccharification of Agrowastes, Jain University – 0.75 L (2020 – 2021)

**Patents:**

Method for Extraction and Purification of Bacteriocin from *Bacillus subtilis*, Application