

# CURRICULUM VITAE

**Dr. V. ARANGANATHAN. M.Sc., M.Phil., PhD**

**Professor and Program Head (PG-Biochemistry)**

**Department of Chemistry & Biochemistry**

**School of Sciences**

**JAIN (Deemed-to-be University)**

#34, JC Road,

Bangalore - 560027,

Karnataka.

Mobile: +919035501749

E-mail: [v.aranganathan@jainuniversity.ac.in](mailto:v.aranganathan@jainuniversity.ac.in)

[bioarang@yahoo.co.in](mailto:bioarang@yahoo.co.in)

Orcid id: <https://orcid.org/0000-0002-5586-0636>

Scopus id: <https://www.scopus.com/authid/detail.uri?authorId=55778179000>

---



## EDUCATIONAL QUALIFICATION

1. *Doctor of Philosophy in Biochemistry (PhD)* under Periyar University, Salem, Tamil Nadu, India (2006 to 2012).
2. *Master of Philosophy in Lifesciences (M.Phil.)* under Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu (2001 to 2003).
3. *Postgraduate Degree in Biochemistry (M.Sc.)* from Adhiparasakthi College of science, Kalavai, University of Madras, Tamil Nadu (1999 to 2001).
4. *Undergraduate Degree in Biochemistry (B.Sc.)* from Adhiparasakthi College of science, Kalavai, University of Madras, Tamil Nadu (1996 to 1999).
5. **Certificate course:** "Climate Change Science & Negotiations" from the Columbia University, USA (2015).

## TEACHING EXPERIENCE (23 YEARS)

1. **Professor** and Programme Head, PG Department of Biochemistry, Jain University, Bangalore from October 2009 to till date.
2. **Lecturer** in Department of Biochemistry, St. George College of Sciences, Bangalore, from July 2008 to September 2009.

3. **Lecturer** in Department of Biochemistry, M.G.R. College, Hosur from August 2002 to November 2007.
4. **Lecturer** in Department of Biochemistry, Arun Krishna College of Arts & Science, Chengam, from November 2001 to July 2002.

## RESEARCH PUBLICATIONS (TOTAL – 33)

### INTERNATIONAL PUBLICATIONS

1. Manish Kumar Sinha, Arumugam Kumaresan, Thirumala Rao Talluri, John Peter Ebenezer Samuel King, Mani Arul Prakash, Pradeep Nag, Nilendu Paul, Kathan Raval, Elango Kamaraj & Aranganathan V. 2022. Single Nucleotide Polymorphisms cumulating to genetic variation for fertility in crossbred (*Bos taurus* X *Bos indicus*) bull spermatozoa. *Animal Biotechnology*. DoI: <https://doi.org/10.1080/10495398.2022.2124166>. Scopus - IF - 2.282
2. 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>. Scopus - IF - 1.858
3. 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>. Scopus - IF - 2.747
4. 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
5. 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. Scopus - IF - 1.884

6. Nivedita Priyadarshini and Aranganathan V, 2020. Anti-tubercular compounds isolated and characterized in *Tithonia diversifolia* and *Couroupita guianensis*. *International journal of Mycobacteriology*. 9, 195-199. – scopus - IF – 0.595
7. Yuvraj C and Aranganathan V, 2018. Configuration analysis of stacked Microbial Fuel Cell in power enhancement and its application in water treatment. *Arabian journal for Science and Engineering*. 43(1), 101-108. – Scopus – IF-2.529
8. Priyanka Pachauri, Yuvraj C and Aranganathan V, 2017. Study of activators and inhibitors on cellulose production from isolated *Trichoderma koningii* for effective saccharification of sugarcane bagasse. *Biofuels* – DOI-10.1080/17597269.2017.1400856. – scopus- IF-1.496
9. Priyanka Pachauri, Aranganathan V, Sunil More, S.B. Sullia and Sudha Deshmukh, 2017. Purification and characterization of cellulase from a novel isolate of *Trichoderma longibrachiatum*. *Biofuels* – DOI-10.1080/17597269.2017.1345357 – scopus – IF-1.496
10. Yuvraj C and Aranganathan V, 2017. MFC-An approach in enhancing electricity generation using electro active Biofilm of Dissimilatory Iron Reducing (DIR) Bacteria. *Arabian journal for Science and Engineering* – 42(6), 2341-2347. –scopus – IF-2.529
11. Yuvraj C and Aranganathan V, 2016. Enhancement of Voltage Generation using Isolated Dissimilatory Iron Reducing (DIR) Bacteria *Klebsiella Pneumoniae* in Microbial Fuel Cell. *Arabian journal for Science and Engineering*, 42(1), 65-73. – scopus – IF-2.529
12. Aranganathan V, Kavya C, Shreeja Mone and Yuvraj C, 2016. Construction of Biosensor for detection of phenolic compound using thermostabilized *Agaricus bisporus* Tyrosinase. *Arabian journal for Science and Engineering*, 42(1), 11-18. – scopus – IF-2.529
13. Aranganathan V, Kanimozhi AM and Palvannan T, 2015. Toxicity assessment and bioremediation of textile effluent by isolated *P. oleovorans* PAMD\_1 bacteria. *Desalination and water treatment*, 54 (10), 2840-2847. - scopus
14. Aranganathan V, Kanimozhi AM and Palvannan T, 2013. Statistical design to optimize the degradation of the synthetic azo dye Orange II by azoreductase from *Pseudomonas oleovorans* PAMD\_1. *Preparative Biochemistry and Biotechnology*, 43 (7), 649-667. – scopus

## NATIONAL PUBLICATIONS

1. Santhi Sudha S, Aranganathan V, 2019. Bioprospecting of some ethnomedicinal plants for potential antimycobacterial bacteriocin like inhibitory substances (BLIS). *Exploratory Animal and Medical Research*. 9(2): 180-187. – scopus – IF-.0.24
2. Archana B, Aranganathan V, 2019. Rhizobacterium treatment in *Jatropha curcas* to improve its fruit yield and quality for Biodiesel production. *Plant cell Biotechnology and Molecular Biology*. 20(9-10), 430-441. – Scopus – IF-0.38
3. Archana B, Aranganathan V, 2019. Phenotypic and Genotypic diversity assessment of *Jatropha curcas* by using RAPD markers to improve Biodiesel production. *International journal of Biology, pharmacy and Allied sciences*. 8(8) 1422-1432. (August – IF-1.318) – Web of Science – IF-1.709
4. Nivedita Priyadarshini and Aranganathan V, 2019. Screening and Identification of Anti-Mycobacterial plants. *International journal of Life science and Pharma research*. 9(1), 66-73. – Web of Science
5. Priyanka Pachauri, Sunil More, Aranganathan V, S.B. Sullia and Sudha Deshmukh, 2018. Kinetic study and characterization of cellulose enzyme from *Aspergillus niger subsp. awamori* for cellulosic biofuels. *Journal of Scientific and Industrial Research* – 77, 55-60. – Scopus – IF-1.056
6. Samen Farha, Priyanka P, Yuvraj C, and Aranganathan V, 2017. Production and optimization of cellulase using isolated *Bacillus* sp. by solid state fermentation. *International journal of advanced life sciences*. 10(1), 117-122. – Web of Science
7. Priyanka P, Yuvraj C, Farha S and Aranganathan V, 2017. Isolation of cellulose degrading fungi from soil and optimization for cellulase production using Carboxy methyl cellulose. *International journal of lifescience and Pharma Research*. 7(1), 56-60. – Web of Science
8. Archana B, Aranganathan V, 2016. Relative efficacy of phytohormones in promoting fruit yield on *Jatropha curcas* for Biodiesel production. *International journal of advanced life sciences*. 9(4), 445-452. – Web of Science
9. Yuvraj C and Aranganathan V, 2015. Isolation and identification of prospective dissimilatory iron reducing bacteria for electricity generation in Microbial fuel cell. *International journal of advanced life sciences*. 8 (3), 300-306. – Web of Science
10. Yuvraj C, Priyanka P and Aranganathan V, 2014. Enhancement of Ethanol production by inducing Ethanol-Tolerance on *Saccharomyces cerevisiae* U1. *Advances in Bioresearch*. 5 (4). 66-72. – Web of Science

11. Aranganathan V and Palvannan T, 2011. Isolation, screening and identification of bacterial strain capability of decolorizing synthetic azo dyes. *International Journal of Biotechnology and Bioengineering Research*. 2 (3). 411-418.

#### CONFERENCE PROCEEDINGS

1. Aranganathan V and Yuvraj C, 2015. Isolation and identification of electrogenic bacteria from anaerobic environment using spread plate method. DST sponsored - *National conference on emerging trends and new challenges in Biotechnology: An Environmental Approach*. 99-106. ISBN: 97-8-81-908542-3-8.
2. Aranganathan V, Kavya Shruthi M and Neha Jha P, 2015. Purification and Immobilization of Tyrosinase from *Agaricus Bisporus* and its application in phenolic waste degradation. DST sponsored - *National conference on emerging trends and new challenges in Biotechnology: An Environmental Approach*. 6-16. ISBN: 97-8-81-908542-3-8.
3. Aranganathan V, Yuvraj C, Vanessa C, Ramya Gowda and Pooja Borat, 2014. Statistical optimization of Tannase production from environmental waste using isolated *Penicillium Spp*. DST sponsored- *National conference on emerging trends and new challenges in Biotechnology*. 95-105. ISBN: 978-81-924478-0-3.
4. Aranganathan V and Savitha Venugopal, 2014. Optimization of growth conditions for the production of extracellular lipase by *Serratia marcescens* isolated from industrial effluent. DST sponsored- *National conference on emerging trends and new challenges in Biotechnology*. 95-105. ISBN: 978-81-924478-0-3.
5. Aranganathan V and Gajendran P, 2014. Investigation on antimicrobial and antioxidant properties of *Samanea Saman*. DST sponsored- *National conference on emerging trends and new challenges in Biotechnology*. 95-105. ISBN: 978-81-924478-0-3.
6. Aranganathan V and Palvannan T, 2012. Thermostabilized azoreductase used as a biologically active molecule for biodegradation of azo compounds from industrial effluents. *International conference on biologically active molecules*. 1. 07-11. ISBN: 978-93-82062-03-5.

## BOOK PUBLICATIONS

1. Archana Bharti, Anita Roy and Aranganathan V, 2023. "Rhizobacterium Treatment in *J. Curcas* to improve its fruit yield and quality for Biodiesel production" - Book Chapter - BP International publications, London - accepted, waiting for DOI.
2. 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.
3. 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.

## RESEARCH PROJECT

Sl.No.	Project Title	Investigators	Agency Amount & Sanction order No	Period of the Project & Status
1	Development of biofuel cell test bed and prototype for MICAV applications	Dr. Aranganathan V & Dr. Sudha Deshmukh	DRDO Rs. 37,28,240.00	18 months (Completed)

## RESEARCH PATENT

Sl.No.	Project Title	Inventors	Applicant	Application Number and Date
1	Method for Extraction and Purification of Bacteriocin from <i>Bacillus subtilis</i>	Dr. Aranganathan V & Dr. Shanti Sudha R	Jain (Deemed-to-be University)	IN202241002985 Filing Date: 19-01-2022

## RESEARCH GUIDANCE

### Doctor of Philosophy (PhD)

Ongoing: 04, Completed: 05

Sl.No.	Project Title	Student Name	University	Year & Status
1	Development of laboratory scale microbial fuel cell (MFC) and efficient electrogenic bacterial cultures	Yuvraj Chakradhari	Jain University	Completed Nov 2017
2	Bioethanol production from Lignocellulosic biomass through direct fungal colonization	Priyanka Pachauri	Jain University	Completed Dec 2017
3	Biological approaches for Improving Biodiesel production from Jatropha seeds	Archana Bharti	Jain University	Completed Dec 2020
5	Screening, isolation and characterization of Anti-mycobacterial compounds from plants	Nivedita Priyadarshini	Jain University	Completed Jun 2021
6	Bioprospecting of potential biomolecules against microbial infections	Shanthi Sudha	Jain University	Completed Sep 2021
7	Thermo-Responsive Hydrogel coated Iron-Oxide nanoparticles mediated drug delivery and magnetic hyperthermia as dual modal breast cancer therapy	Regan Charles R	Jain University	August 2018 Ongoing
8	Identification of single nucleotide polymorphism (SNPs) related to semen quality in Holstein Friesians Bulls	Ebenezer Samuel King J	Jain University	August 2019 Ongoing
9	Identification of line specific biomarkers for high fertility in crossbred dairy bulls	Manish Kumar Sinha	Jain University	August 2019 Ongoing
10	Evaluation of Molecular mechanism of potential anxiolytic peptides from Food sources and its application as Antidepressants	Vishwadeep	Jain University	August 2021 Ongoing

## Master of Philosophy (M.Phil.)

Completed: 09

Sl.No.	Project Title	Student Name	University	Year & Status
1	Isolation, purification and characterization of Pectinase from Tomatoes and its clarifying action on Banana Juice	JAYAPRADHA E Reg. No.06CD26990	Bharathidasan	August 2007 Completed
2	Isolation and characterization of cyclodextrin glucanotransferase from soil bacterium	SANGEETHA C Reg. No.06CD27023	Bharathidasan	August 2007 Completed
3	Poly hydroxybutyrate depolymerase: Production, Optimization and Kinetic studies from <i>Fusarium Spp.</i>	SHALINI V Reg. No.06CD27029	Bharathidasan	August 2007 Completed
4	Purification of tyrosinase from <i>Agaricus Bisporous</i> and its application in bioremediation	SUDHA D Reg. No.06CD27035	Bharathidasan	August 2007 Completed
5	Production, purification and characterization of Alpha-Amylase from <i>Bacillus Spp.</i>	SAVITHA V Reg. No.2010CDE028	PRIST	April 2011 Completed
6	Screening of thermostable Azoreductase from <i>Bacillus Spp.</i>	DIVYA LAKSHMI Reg. No.2010CDE054	PRIST	April 2011 Completed
7	Effect of oxygen on anaerobic color removal of azo dyes	SATHISH S Reg. No.2010CDE033	PRIST	April 2011 Completed
8	Biodegradation of Azo dyes by newly isolated <i>Aeromonas</i> bacteria	RINKU JAIN Reg. No.2010CDE034	PRIST	April 2011 Completed
9	Isolation, purification and characterization of <i>Pseudomonas Spp</i> on dye degradation	GAJENDRAN P Reg. No.2010CDE120	PRIST	April 2011 Completed



## SOFT SKILL TRAINING /FACULTY DEVELOPMENT PROGRAMME

Sl.No.	Program Title	Place	Duration
1	Exploring dynamics of National education policy 2020 with reference to NAAC perspectives	Parul University, Gujarat	12-05-2023 To 18-05-2023
2	Short term training programme on "Microbial fermentation, downstream processing & Biopharmaceutical regulations"	DBT sponsored at BIOZEEN, Bangalore, Karnataka	22-12-2014 To 08-01-2015
3	Methodology training in Fuel cell designing and preparation of Electrodes	Sainergy Fuel Cell PVT Ltd, Chennai, Tamil Nadu	10-03-2014 To 13-03-2014
4	Training programme in Quality control and Quality assessment	VB Medi care Pvt Ltd, Hosur, Tamil Nadu	01-02-2012 To 16-02-2012

## PARTICIPATED AND PRESENTED IN CONFERENCES

### PRESENTED - INTERNATIONAL CONFERENCES

1. Regan Charles R & Aranganathan V. " Hydrogels Coated Iron Oxide Nanoparticles For Synergistic Magnetic Hyperthermia With Chemotherapy For Effective Cancer Therapy" presented in International conference on "Science and Technology for socio-economic and Environmental sustainability" organized by School of Sciences, Jain University, Karnataka, 28th - 29th Sep 2022.
2. Vishwadeep & Aranganathan V. "*In silico* Comparative Analysis Of Opioid Like Peptides From Various Biological Sources" presented in International conference on "Science and Technology for socio-economic and Environmental sustainability" organized by School of Sciences, Jain University, Karnataka, 28th - 29th Sep 2022.
3. ManishKumar & Aranganathan V. "SNPs study related to genomics differences for fertility in crossbred bull spermatozoa" presented in the scientific session on Reproductive Biotechnology in the International Symposium (The Indian Society for Study of Animal Reproduction) on "Novel Knowledge, Innovative Practices and Research in Theriogenology" organized by Department of Animal Reproduction, Gynaecology and Obstetrics, at CVAS, Kerala, 27th - 29th Dec 2021.

4. Ebenezer & Aranganathan. Single Nucleotide Polymorphism variations in Good and poor quality semen producing Holstein Friesian bulls" presented in the scientific session on Reproductive Biotechnology in the International Symposium (The Indian Society for Study of Animal Reproduction) on "Novel Knowledge, Innovative Practices and Research in Theriogenology". Department of Animal Reproduction, Gynaecology and Obstetrics, at CVAS, Kerala, 27th – 29th Dec 2021.
5. Virtual International Conference on “Recent Advances in Chemical and Biological Sciences” (ViRACBS-2020) held on 7<sup>th</sup> and 9<sup>th</sup> December 2020.
6. Doxorubicin loaded Thermo-Responsive Hydrogels coated iron oxide nanoparticles for combined chemotherapy with magnetic hyperthermia for Effective treatment of Cancer. International conference on Recent advances in chemical and biological sciences. Dayananda Sagar College of Engineering, Bangalore. 7, 8 and 9<sup>th</sup> January 2020.
7. Screening and identification of anti-mycobacterial compound(s) from *Tithonia diversifolia* (Hemsl.) Leaves. 59<sup>th</sup> Annual International conference of Association of Microbiologists of India and International symposium on Host pathogen Interactions. University of Hyderabad, Hyderabad. 9-12<sup>th</sup> Dec 2018.
8. Biological pretreatment of Corn cob using *Bacillus Megeterium* to improve bioethanol production. International conference on Recent Advances in Bioresource Technology. Thiruvalluvar University, Vellore, Tamil Nadu. 15-17<sup>th</sup> Feb 2017.
9. Configuration analysis of Stacked Microbial Fuel Cell in waste water treatment. International conference on Recent Advances in Bioresource Technology. Thiruvalluvar University, Vellore, Tamil Nadu. 15-17<sup>th</sup> Feb 2017.
10. Structural analysis of pretreated Bagasse using X-ray diffraction and FTIR spectroscopy. International conference on Recent Advances in Bioresource Technology. Thiruvalluvar University, Vellore, Tamil Nadu. 15-17<sup>th</sup> Feb 2017.
11. Characterization of *Jatropha* seed oil treated with phytohormones for biodiesel production. International conference on Recent Advances in Bioresource Technology. Thiruvalluvar University, Vellore, Tamil Nadu. 15-17<sup>th</sup> Feb 2017.
12. Rhizo bacterium treatment in *Jatropha curcas* to improve its fruit yield for biodiesel production. International conference on Food, Energy and Water Microbiology. Periyar University, Salem, Tamil Nadu. 21-23<sup>rd</sup> Dec 2016.

13. Effect of Biofilm formation by newly isolated electrogenic bacteria *Klebsiella Varicolla* in Microbial Fuel Cell on Electricity generation. International conference on Innovation in Science, Engineering and Technology. Greentech College of Engineering, Salem, Tamil Nadu. 27<sup>th</sup> Feb 2016.
14. Electricity production using pretreated lignocellulose as feed in Microbial Fuel Cells. Indo-US International conference on Advanced Lignocellulosic biofuels. Indian Institute of Chemical Technology, Hyderabad, 10-11<sup>th</sup> Nov 2014.
15. Thermostabilized azoreductase for biodegradation of azo compounds from industrial effluents. International conference on biologically active molecules. Gandhigram Rural Institute, Tamil Nadu. 8-10<sup>th</sup> Mar 2012.
16. Mimicking SIgA by biotechnological approach. International conference, Indo-Australian conference on Biotechnology in Medicine. Indian Institute of Science, Bangalore, Karnataka. 9-11<sup>th</sup> Feb 2004.

#### PRESENTED - NATIONAL CONFERENCES

1. Identification and purification of potential ethnomedicinal plants extract against *Candida albicans*, a Commensal Fungus National e-Conference on "Impact of Multipronged approaches of Biotechnology on Mankind (IMABM)" organized by Department of Biotechnology, School of Basic and Applied Sciences, Dayananda Sagar University, Bangalore, 27 -29<sup>th</sup> Sep 2021.
2. National Conference on Integrated Biotechnological tools and concepts IBTC-2021 held on 23 and 24 September 2021.
3. Anti-tubercular effect of Crude and Purified Compound/s from *Couroupita guianensis* Leaves on *Mycobacterium tuberculosis* H37Ra. 8<sup>th</sup> National conference on Emerging trends and new challenges in Biotechnology. MGR College, Hosur, Tamilnadu, 30-31<sup>st</sup> Jan 2020.
4. Characterization of Biodiesel produced from different treated *Jatropha* seed oils. 8<sup>th</sup> National conference on Emerging trends and new challenges in Biotechnology. MGR College, Hosur, Tamilnadu, 30-31<sup>st</sup> Jan 2020.
5. Antibiofilm analysis and synergistic potential of a bacteriocin, a secondary metabolite of *B. Subtilis* screened from ethnomedicinal plant microbiome. National conference on Phytochemical and Microbial Bioactive compounds - Role in Agriculture and Human welfare. Bangalore University, Bangalore, Karnataka, 3-4<sup>th</sup> Oct 2019.

6. Studying the synergistic effect of purified anti-mycobacterial compounds from *Tithonia diversifolia* and *Couroupita guianensis* leaves. National conference on Phytochemical and Microbial Bioactive compounds – Role in Agriculture and Human welfare. Bangalore University, Bangalore, Karnataka, 3-4<sup>th</sup> Oct 2019.
7. Characterization of Anti-mycobacterial Bacteriocin like inhibitory substance [BLIS] produced by Bacillus strain isolated from *Ficus bengalensis* plant. National conference on Future India-Science and Technology: Research innovations in Biology. Jain (Deemed to-be University), Bangalore, Karnataka, 14-15<sup>th</sup> Feb 2019.
8. Isolation and Identification of Anti-mycobacterial Compounds in *Tithonia diversifolia* leaves. National conference on Future India-Science and Technology: Research innovations in Biology. Jain (Deemed to-be University), Bangalore, Karnataka, 14-15<sup>th</sup> Feb 2019.
9. Isolation and identification of Anti-Mycobacterial compound/s in *Couroupita guianensis* leaves. National conference on Advances & Innovations in Biotechnology: Multidisciplinary Approaches to Food, Health, Environmental and Energy Issues. Dayananda Sagar University, Bangalore, Karnataka, 15-16<sup>th</sup> Nov 2018.
10. Biodegradation of Organophosphorus Pesticide Using Immobilized Esterase from Isolated *Staphylococcus Spp.*, 6<sup>th</sup> National conference on Emerging trends and new challenges in Biotechnology – Advances in Biomaterials and Applications. MGR College, Hosur, Tamilnadu, 31-1<sup>st</sup> Feb 2018.
11. Extraction and Preparation of Chitosan carrier from Bombyx mori for Glucose oxidase Immobilization, National seminar on Frontiers in Biomimicry Medicine, Thiruvalluvar Arts and Science college, Cuddalore, Tamilnadu, 6<sup>th</sup> Oct 2017.
12. Study of activators and inhibitors on Cellulase production from isolated Trichoderma koningiifor effective saccharification of sugarcane bagasse, KSPCB sponsored National conference on Emerging trends in Environmental Biotechnology - Approach to conserve Biodiversity, Garden City University, Bangalore, Karnataka, 21-22<sup>nd</sup> Sep 2017.
13. Characterization of PGPR microbes which enhance yield of *Jatropha Curcus* plant, UGC sponsored National seminar on Recent advances and developments in Microbial technology, Government college, Kalaburagi, Karnataka, 15-16<sup>th</sup> Sep 2017.
14. Antioxidative, anti-inflammatory properties of leaf extract of *Plectranthus amboinicus* and its toxicological evaluation, 5<sup>th</sup> National conference on Emerging trends and new challenges in Biotechnology – Advances in free radicals and antioxidants, MGR College, Hosur, Tamil Nadu, 2-3<sup>rd</sup> Feb 2017.

15. MFC-An approach in enhancing electricity generation using electroactive Biofilm of DIR bacteria, National seminar on Biofilm technology - Problems & Prospects, Kristu Jayanti College, Bangalore, Karnataka, 25<sup>th</sup> Jan 2017.
16. Wastewater treatment by using stacked dual chambered microbial fuel cell, ISCA sponsored National conference on Science and Technology for National development -Health, Environment and Agriculture, Jain University, Bangalore, Karnataka, 5 - 7<sup>th</sup> Oct 2016.
17. Characterization of partially purified cellulase from isolated *Bacillus* Spp., ISCA sponsored National conference on Science and Technology for National development -Health, Environment and Agriculture, Jain University, Bangalore, Karnataka, 5 - 7<sup>th</sup> Oct 2016.
18. Effect of growth promoting Rhizobacterium treatment on growth traits of *Jatropha curcas* for biodiesel production, ISCA sponsored National conference on Science and Technology for National development -Health, Environment and Agriculture, Jain University, Bangalore, Karnataka, 5 - 7<sup>th</sup> Oct 2016.
19. Acid pretreatment of sugarcane bagasse for Bioethanol production, ISCA sponsored National conference on Science and Technology for National development -Health, Environment and Agriculture, Jain University, Bangalore, Karnataka, 5 - 7<sup>th</sup> Oct 2016.
20. Purification, characterization and kinetic study of cellulose from *Aspergillus niger* KP164968, 9<sup>th</sup> NABS National conference on New Biological Researches: Opportunities and Challenges for Sustainable Development, Madurai Kamaraj University, Madurai, Tamil Nadu, 11 - 12<sup>th</sup> Aug 2016.
21. Enhancement of bacterial cellulase production by statistical optimization, 9<sup>th</sup> NABS National conference on New Biological Researches: Opportunities and Challenges for Sustainable Development, Madurai Kamaraj University, Madurai, Tamil Nadu, 11 - 12<sup>th</sup> Aug 2016.
22. Phytohormone treatment for improving *Jatropha curcas* quality for biodiesel production, 9<sup>th</sup> NABS National conference on New Biological Researches: Opportunities and Challenges for Sustainable Development, Madurai Kamaraj University, Madurai, Tamil Nadu, 11 - 12<sup>th</sup> Aug 2016.
23. Power generation enhancement of dual chambered microbial fuel cell by series and parallel connection, 9<sup>th</sup> NABS National conference on New Biological Researches: Opportunities and Challenges for Sustainable Development, Madurai Kamaraj University, Madurai, Tamil Nadu, 11 - 12<sup>th</sup> Aug 2016.

24. Co-immobilization of cellulase and hemicellulase enzymes on iron oxide nanoparticles, 9<sup>th</sup> NABS National conference on New Biological Researches: Opportunities and Challenges for Sustainable Development, Madurai Kamaraj University, Madurai, Tamil Nadu, 11-12<sup>th</sup> Aug 2016.
25. Electrochemical study of different Anode material in microbial fuel cell for electricity generation, DST-4<sup>th</sup> National conference on Emerging trends and new challenges in Biotechnology - Bioenergy, MGR College, Hosur, Tamil Nadu, 18-19<sup>th</sup> Feb 2016.
26. Partial purification and characterization of Laccase from Isolated *Bacillus coagulans*, DST-National symposium on Recent Advances on Biomedical Technology, Thiruvalluvar University, Tamil Nadu, 26-27<sup>th</sup> Feb 2015.
27. Electricity generation and Biofilm formation in a long term glucose fed batch microbial fuel cell, 7<sup>th</sup> Annual KSTA National conference on Science, Technology, and Productization, Oxford college of Science, Bangalore, 5-6<sup>th</sup> Feb 2015.
28. Biodegradation, Toxicity assessment and optimization of Monocrotophos using Isolated Staphylococcus spp. 12<sup>th</sup> National level Biological congress on Recent advances in Biological Sciences towards sustainable Development, Muthayammal College of Arts & Science, Rasipuram, Tamil Nadu, 9-10<sup>th</sup> Jan 2015.
29. Isolation and screening of dissimilatory iron reducing bacteria and their utilization in electricity generation using Microbial Fuel Cell. National conference on Empowering Mankind with Microbial Technologies, Tamil Nadu Agricultural University, Coimbatore, 12-14<sup>th</sup> Nov 2014.
30. Assessment and Biological treatment of effluent from textile industry. 6<sup>th</sup> National conference Janaranjana 2K14. Oxford College, Bangalore, 27<sup>th</sup> Mar 2014.
31. Aerobic biodegradation pathway for Remazol Orange by isolated *Pseudomonas Spp.* 6<sup>th</sup> National conference Janaranjana 2K14. Oxford College, Bangalore, 27<sup>th</sup> Mar 2014.
32. Purification and partial characterization of azoreductase from *Pseudomonas oleovorans*. 6<sup>th</sup> National conference Janaranjana 2K14. Oxford College, Bangalore, 27<sup>th</sup> Mar 2014.
33. Optimization of cultural and nutritional parameters for the production of Bacteriocin like substance from *Bacillus coagulans*. National conference on recent advances in Biosciences. MS Ramaiah College, Bangalore, Karnataka. 28<sup>th</sup> Mar 2014.

34. Screening of Ligno cellulose degrading fungi using agro wastes as substrates. National conference on recent advances in Biosciences. MS Ramaiah College, Bangalore, Karnataka. 28<sup>th</sup> Mar 2014.
35. Biological remediation of dyes in textile effluent applying current treatment technologies. National conference on recent advances in Biosciences. MS Ramaiah College, Bangalore, Karnataka. 28<sup>th</sup> Mar 2014.
36. Antimicrobial activity of *Ocimum sanctum* extraction on microorganisms from skin infections. National conference on Novel trends in Biotechnology and pharmaceutical applications. Adhiyamaan College of Engineering, Hosur, Tamil Nadu. 18 -19<sup>th</sup> Mar 2014.
37. Antimicrobial efficacy of Root canal sealers against obligate anaerobe *Streptococcus micros*. National conference on Novel trends in Biotechnology and pharmaceutical applications. Adhiyamaan College of Engineering, Hosur, Tamil Nadu. 18 -19<sup>th</sup> Mar 2014.
38. Production of fructose from Inulin using microorganisms. National conference on Novel trends in Biotechnology and pharmaceutical applications. Adhiyamaan College of Engineering, Hosur, Tamil Nadu. 18 -19<sup>th</sup> Mar 2014.
39. Statistical optimization of Tannase production from environmental waste using isolated *Penicillium Spp*. DST sponsored National conference on emerging trends and new challenges in Biotechnology. MGR College, Hosur, Tamil Nadu. 19-20<sup>th</sup> Feb 2014.
40. Development of Bio-fuel cell test bed and prototype for MICAV applications. National competition on Micro Air Vehicle, Jain University, 8-11<sup>th</sup> Jan 2014.
41. Immobilization of azoreductase using sol-gel method and its potential application in Biosensor- National seminar on Enzymes and biocatalysis, the versatile actors: Current trends and future perspective. Periyar University, Salem, Tamil Nadu. 5 - 6<sup>th</sup> Jan 2012.
42. Thermostabilization of *P. oleovorans* PAMD\_1 azoreductase using polysaccharide additives in aqueous state and its application as bioremediation tool - National conference on Harnessing the power of microbes for better food, agro-industry, health and environment. Karpagam University, Coimbatore, Tamil Nadu. 19 - 20<sup>th</sup> Sep 2011.
43. Optimization of cultural and nutritional parameters for the production of Bacteriocin like substance from *Bacillus coagulans*, National seminar on Frontiers of Biotechnology in Pharmaceutical Industries. Administrative Management College, Bangalore, Karnataka. 7<sup>th</sup> Apr 2011.

44. Isolation, screening and identification of Bacterial strain capable of degrading Azo dyes. UGC sponsored National conference on Advances in Environmental Research: An interdisciplinary Approach. Annamalai University, Tamil Nadu. 11-12<sup>th</sup> March 2011.
45. Screening of thermostable Azoreductase from *Pseudomonas spp.* National conference on Biorevolution - A promising strategy. Sri Krishna College, Coimbatore, Tamil Nadu. 8<sup>th</sup> Dec 2010.
46. Purification and partial characterization of azoreductase from *Pseudomonas oleovorans*, National seminar on Modern Biology - Perspective and Prospects. Kristu Jayanti College, Bangalore, Karnataka. 19-20<sup>th</sup> Mar 2009.
47. Isolation, purification of pectinase from *Bacillus spp.* National seminar on Emerging trends in Biochemistry - Health & Diseases. Periyar University, Salem, Tamil Nadu. 26-27<sup>th</sup> Feb 2007.
48. Biological remediation of dyes in textile effluent applying current treatment technologies. National seminar on Biotechnological applications of Microbes. VHN Senthikumara Nadar College, Virudhunagar, Tamil Nadu. 9-10<sup>th</sup> Feb 2007.
49. Antimicrobial efficacy of Root canal sealers against obligate anaerobe *Streptococcus micros*. National conference on Biotechnology in Genomics Era. Adhiyamaan College of Engineering, Hosur, Tamil Nadu. 5-6<sup>th</sup> Apr 2006.
50. Purification and partial characterization of azoreductase from *Pseudomonas oleovorans*. National conference of IAAM on Emerging trends in Biosciences. MGR College, Hosur, Tamil Nadu. 20-21<sup>st</sup> Jan 2006.

#### PRESENTED - STATE LEVEL CONFERENCES

1. Optimization of Anti-mycobacterial Bacteriocin like inhibitory substances (BLIS) produced by *Bacillus subtilis* isolated from *Ficus benghalensis* plant. 11<sup>th</sup> Annual Karnataka science and Technology Academy (KSTA) conference. NMKRV College for women, Bangalore, Karnataka. 1-2<sup>nd</sup> Feb 2019.
2. Exhibit Bioremediation model. One day state level Exhibition cum Knowledge sharing. Sri Krishna College, Coimbatore, Tamil Nadu. 21<sup>st</sup> FEB 2014.
3. Aerobic biodegradation pathway for Remazol Orange by isolated *Pseudomonas Spp.* 5<sup>th</sup> Annual Karnataka science and Technology Academy (KSTA) conference. Dayananda Sagar Institutions, Bangalore, Karnataka. 19-20<sup>th</sup> Dec 2012.



4. Synthesis of silver nano particles and evaluate its antimicrobial activity against *Aspergillus japonicum*. State level seminar on Technology of Organic farming and Rural Development. Alagappa Govt. College, Karaikudi, Tamil Nadu. 25-26<sup>th</sup> Sep 2008.

#### INVITED LECTURES

1. Research Methodology – as Resource person. Three day research methodology course. Religious minorities, National Law School of India University, Bengaluru, Karnataka. 13<sup>th</sup> Mar 2018.
2. Lectures as a Resource person in State level seminar on Scientific advancements in GMOs for the welfare of mankind, organized by Department of Biotechnology, St. Joseph’s College of Arts & Science for women, Hosur, Tamil nadu, 16<sup>th</sup> Sep 2016.
3. Lectures as a Resource person and chaired an oral session in International conference on Biotechnology (ICCSFPOB -2016), organized by Department of Biotechnology, Thanthai Hans Rover College, Perambalur, Tamil Nadu, 9<sup>th</sup> Aug 2016.
4. Lectures as a Resource person for Young Student Scientist Programme sponsored by Tamil Nadu State Council for Science and Technology (TNCST). MGR College, 10<sup>th</sup> Feb 2014.

#### PARTICIPATED IN CONFERENCES

1. CSIR sponsored - National level seminar on nano materials in solar cell applications, Velalar college of Engineering, Erode, Tamil Nadu. 14<sup>th</sup> Mar 2014.
2. KSTA sponsored - State level conference on Science and Technology challenges for promoting innovative Research and Development. Christ University, Bangalore, Karnataka. 20-21<sup>st</sup> Dec 2013.
3. UGC sponsored – National conference on Advances in Environmental research: An interdisciplinary approach. Annamalai University, Tamil Nadu. 11-12<sup>th</sup> Mar 2011.
4. National seminar on Emerging trends in Biochemistry – Health & Disease approach. Periyar University, Salem, Tamil Nadu. 26-27<sup>th</sup> Feb 2007.
5. National conference on Biotechnology in Genomics era. Adhiyamaan college of Engineering, Hosur, Tamil Nadu. 5-6<sup>th</sup> Apr 2006.

6. CSIR & ICMR sponsored IAAM National conference on Emerging trends in Biosciences. MGR College, Hosur, Tamil Nadu. 20-21<sup>st</sup> Jan 2006.
7. State level seminar on Molecular basis of diseases in Biochemistry. Prof. Dhanapalan College, Chennai, Tamil Nadu. 24<sup>th</sup> Aug 2004.
8. Annual scientific meet of the Society of Biological chemists. Annamalai University, Tamil Nadu. 12-13<sup>th</sup> Feb 2000.
9. Symposium on Free radicals in health and diseases. Madras University, Chennai, Tamil Nadu. 20-22<sup>nd</sup> Dec 1999.

### **PROFESSIONAL MEMBERSHIP**

Executive council member - Indian Nano Biologist Association (INBA)

Life member - Indian Science Congress

Life member - International Association for Engineers (IAENG)

Member Editorial Board - Clean-Soil,Air,Water (Wiley Publications)

Member Editorial Board - International Journal of Scientific Research and  
Nanotechnology (IJSRNT)

Member - Board of Examination, Jain University, Bangalore

Member - Board of Examination, Kristu Jayanthi College, Bangalore

Member - Board of Examination, Periyar University, Salem, Tamil Nadu

Member - Board of Examination, PRIST University, Thanjavur, Tamil Nadu

### **PERSONAL DETAILS**

<b>Father's Name</b>	: O. Veeramani
<b>Sex</b>	: Male
<b>Date of Birth</b>	: 11/05/1979
<b>Nationality</b>	: Indian
<b>Languages Known</b>	: English, Tamil, and Kannada
<b>Permanent address</b>	: 2/308A, Annai sathya nagar, Mookandapalli, Hosur,Tamil Nadu, 635 126.

## DECLARATION

I hereby solemnly affirm that the particulars mentioned above are true to best of my knowledge and solely responsible for its accuracy.

**Place: Bangalore**

**Date: 26-05-2023**

A handwritten signature in blue ink, appearing to read 'V. Aranganathan', with a horizontal line underneath.

**(Dr. V. Aranganathan)**