

## CURRICULUM VITAE

### **Dr. E. JAMES OBETH**

Asst. Professor,  
Department of Biochemistry,  
Sourashtra college,  
Madurai – 625004. Mobile 8668129962  
E-mail: dsjeames@gmail.com



### **CAREER OBJECTIVE**

I am interested to do innovative scientific research in the field of microbiology, Bioenergy, biochemistry and biotechnology. I believe in hard work with appropriate planning.

### **EDUCATIONAL QUALIFICATION**

Degree	University	Year	% of marks
Ph.D in Microbiology	Alagappa University	2018 – 2025	Highly Commended
M.Sc, Biotechnology	Bishop Heber College / Bharathidasan University, Tiruchirappalli	2013-2015	77
DMLT	Bishop Heber College / Bharathidasan University, Tiruchirappalli	2014-2015	62
PGDBI	Bishop Heber College, Tiruchirappalli	2013-2014	77
B.Sc, Biochemistry	The American College / Madurai Kamaraj University, Madurai.	2008-2011	52.2

### **RESEARCH EXPERIENCE**

- **DOCTOR OF PHILOSOPHY IN MICROBIOLOGY (Ph.D) - Highly Commended** “under the Guidance of **Dr. A. Arun**, Professor & Head, Department of Microbiology, Alagappa University, Karaikudi, Tamil Nadu, India. Project title: *“Evaluation of Microbial Fuel Cell Systems for Bioelectricity Generation Utilizing Septic Tank Waste Water”*.
- **Biohydrogen production from sugar industrial waste using heatshock and acid pretreatment method** at Alagappa University, karaikkudi. From Dec-2014 to March-2015.
- **Comprehensive and proteomic analysis of AMPK** at Bishop Heber College (autonomous) Trichy. (2013).

## WORKING EXPERIENCE

- Assistant professor, Department of Biochemistry, Sourashtra college (Autonomous) Madurai. December, 2024 to till now.
- Project Assistant at DST-ICMAP 2022-2024, Department of microbiology, Alagappa university, Karaikudi.
- Worked as Microbiologist in **Excellent Minerals**, Veeracholan, Virudunagar, India during the period from August, 2015 to February, 2018.

## PROGRAMS ORGANIZED

- Organizing committee member for the inter-collegiate cultural MICZAUBAR on 05-Mar-2025 organized by Department of Microbiology and Biochemistry, Sourashtra college, Madurai.
- Organizing secretary in One day International conference on Innovation - Advances in Biological Sciences IABS-2025 on 28-Aug-2025 organized by Department of Microbiology and Biochemistry
- Organizing committee member for the One day National Seminar on R&D Strategies Behind Global Acceptance of Indian Species on 20-Jan-2026 organized by Department of Microbiology and Biochemistry, Sourashtra college, Madurai.
- Organizing committee member for the inter-collegiate cultural MICZAUBAR on 13-Feb-2026 organized by Department of Microbiology and Biochemistry, Sourashtra college, Madurai.
- Organizing committee member for the One day International Seminar on From Proteins to Replication Organelles: Understanding RNA Viruses Through Structural Biology on 17-Feb-2026 organized by Department of Microbiology and Biochemistry, Sourashtra college, Madurai.

## RESOURCE PERSON

- Presented a guest lecture on Bioelectricity from Septic Tank Waster Water on NATIONAL ENERGY CONSERVATION DAY 13-Feb-2026 organised by the Institution's Innovation Cell, Department of Master of Computer Applications, and Department of Biochemistry at Sourashtra College.

## PAPERS PUBLISHED

- **Samuel, J. O. E.**, Rathinavel, N., Veleeswaran, A., Thulasinathan, B., Ramalingam, K. R., Rathinam, Y., & Alagarsamy, A. (2024). New insight on the influence of surface-modified clay cup with stirring effect for bioelectricity production by utilizing septic tank wastewater. **Process Safety and Environmental Protection**, 186, 213-223. **(IF: 7.8)**.
- Rathinavel, N., **Samuel, J. O. E.**, Veleeswaran, A., Nallathambi, S., Ponnuchamy, K., Muthusamy, G., ... & Alagarsamy, A. (2025). Exploring the key factors enhancing the microbial fuel cell performance. **Process Safety and Environmental Protection**, 193, 385-402. **(IF: 7.8)**.

## PAPERS PUBLISHED

- Boobalan Thulasinathana, Samsudeen Naina Mohamed, **James Obeth Ebenezer Samuel**, Saravanan Soorangkattan, Jothi Basu Muthuramalingam, Mohanrasu Kulanthaisamy, Ravindran Balasubraman, Dinh Duc Nguyen, Soon Woong Chang, Nanthi Bolan, Yiu Fai Tsang, Leonel Ernesto Amabilis-Sosai, Arun Alagarsamy, Comparative study on *Cronobacter sakazakii* and *Pseudomonas otitidis* isolated from septic tank wastewater in microbial fuel cell for bioelectricity generation. **Fuel** **248** (2019) 47–55 (IF: 8.1).
- Ramu Satheesh Murugan, Gujuluva Hari Dinesh, Ramalingam Karthik Raja, **Ebenezer Samuel James Obeth**, Abhispa Bora, Naina Mohammed Samsudeen , Arivalagan Pugazhendhi, Alagarsamy Arun. 2020. Dark fermentative biohydrogen production by *Acinetobacter junii*-AH4 utilizing various industry wastewaters. **International Journal of Hydrogen Energy**. <https://doi.org/10.1016/j.ijhydene.2020.07.073> (IF: 7.5).
- T. Boobalan, **E. James Obeth**, Abhispa Bora, N. Arumugam, A. Pugazhendhi , J. Tamilmani, N. Samsudeen , Mukesh Doble , A. Arun. 2020. Bioelectricity generation and analysis of anode biofilm metabolites from septic tank wastewater in microbial fuel cells. **International Journal of Energy Research**. <https://doi.org/10.1002/er.5734> (IF – 5.164)
- Sivaprakash. G, Mohanrasu. K, **James Obeth**, Abhispa Bora ,Yuvakkumar. R, Ahmed Hossam Mahmoud, Assem Ibrahim Zein El-Abedein, Saravanan.S , Arun. A. 2020. Zinc based iron mixed oxide catalyst for biodiesel production from *Enteromorpha intestinalis*, *Caulerpa racemosa* and *Hypnea musciformis* and antibiofilm analysis using leftover catalyst after transesterification. **Journal of King Saud University – Science**. DOI: <https://doi.org/10.1016/j.jksus.2019.12.018> (IF: 4.011).

## CONFERENCES ATTENDED

- Presented Oral presentation entitled “Bioelectricity generation using clay cup single chamber microbial fuel cell utilizing septic tank waste water” in International conference on multifunctional and hybrid composite materials for energy, environment and medical applications (ICMHCEE, 2019) organized by Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli – 620015, Tamil Nadu, India on 9th -11th September, 2019.
- International Conference on Bioplastics (BIOP-2019) organized by Department of Microbiology, Alagappa University, Karaikudi-630003, Tamil Nadu, India on 2nd April, 2019.
- International conference on Innovative and emerging trends in Botany (ICIETB- 2019) organized by Department of Botany, Alagappa University, Karaikudi – 630003, Tamil Nadu, India on 6th -7th November, 2019.
- Presented Oral presentation entitled “Bioelectricity generation using clay cup single chamber microbial fuel cell utilizing septic tank waste water” in International Conference on Recent Technologies and Advanced Materials for Green Energy and Sustainable Environment (RTAMGESE- Online) organized by Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu during March 12-13, 2021.

## CONFERENCES ATTENDED

- International Conference on Recent Trends in Bioplastics (RTB- 2019) organized by Department of Microbiology, Alagappa University, Karaikudi-630003, Tamil Nadu, India on 9th -10th December, 2019.
- Participated in 4<sup>th</sup> International Conference on Recent Trends in Microbiology(RTM-2022), Sponcered under RUSA 2.0 Scheme, held on Dept of Microbiology Alagappa University on 17-18<sup>th</sup> January, 2022.

## TECHNIQUES LEARNED

- **Microbiological Technique:** Basic Laboratory technique for isolation, cultivation and culture characterization of microorganisms, bacterial staining, Analysis of antimicrobial of various substances, pure culture techniques.
- **Molecular Biology:** DNA isolation from microbial, plant and animal sources, PCR, Spectrophotometer,Agarose gel electrophoresis, DNA quantification.
- **Protein Purification:** Enzyme assays, SDS PAGE, Gel electrophoresis, Blotting techniques (western), Dot ELISA.
- **Biochemical Engineering:** Phytochemical Analysis, Bio chemical techniques, Chromatographic techniques, Clinical samples analysis, Blood grouping and blood biochemistry.
- **Animal Cell Culture Technique:** Establishing Primary cell culture, cell line maintenance and cell viability assay, Anti-inflammatory activity, Anti-oxidant activity, Teratogenicity.
- **Plant Tissue Culture:** Invitro Culture, Regeneration of Aseptic Plant, Micropropagation, Callus Induction Organogenesis, Embryo Culture, Synthetic Seed Production.

## COMPUTER SKILLS

- **Basic skills** :Typing skills
- **Office Package** :MS Office
- **Accessing of data bases** :NCBI, Pubchem
- **Packages Known** :Chemsketch, iGemdock

## WORKSHOP & SHORT TERM PROGRAMME

- Participated in International Conference on Bioplastic(BIOP-2019), Sponcered under RUSA 2.0 Scheme, held on Dept of Microbiology Alagappa University on 2<sup>nd</sup> April, 2019.
- Participated in 3<sup>rd</sup> International Conference on Recent Trends in Microbiology(RTM-2019), Sponcered under RUSA 2.0 Scheme, held on Dept of Microbiology Alagappa University on 24-25<sup>th</sup> January, 2019.
- International Conference on Biotechnology towards Global Development; Its Advent and Future Promises: 9<sup>th</sup>& 10<sup>th</sup> January 2013 at Bishop Heber College, Trichy, TamilNadu.
- Workshop on computational biology and drug designing 13<sup>th</sup> July 2010 at Genocom research institute, Madurai, TamilNadu
- Attend and do ten days training programme in clinical biochemistry from 8<sup>th</sup> to 18<sup>th</sup> may 2010 at Thembavani hospital, Madurai, TamilNadu.

## EXTRA-CURRICULAR ACTIVITY

- Over all shield in inter college meet from dhanalakshmi seenivaasan college, perambalur.

## PERSONAL PROFILE

Date of Birth : 09/03/1991  
Gender : Male  
Age : 35 years  
Nationality : Indian  
Marital Status : Married

## REFERENCES

**1. Dr. A. Arun,**  
Professor & Head,  
Department Microbiology,  
Alagappa University,  
Karaikudi - 630 003, Tamil Nadu, India.  
Mobile No. +91-9442126857;  
Email: [arunalacha@gmail.com](mailto:arunalacha@gmail.com)

**2. Dr. M. Jothi Basu,**  
Controller of examinations,  
Alagappa University,  
Karaikudi - 630 003, Tamil Nadu, India.  
Mobile No. +91-9003427564;  
Email: [jothibas77@gmail.com](mailto:jothibas77@gmail.com)

**3. Dr. Sudhakar Muniyasamy, PhD**  
Polymers and Composites,  
Materials Science and Manufacturing Unit,  
Council for Scientific and Industrial Research (CSIR),  
Port Elizabeth 600,1 South Africa.  
Mobile : +27 60 427 4586;  
Email: [smuniyas@gmail.com](mailto:smuniyas@gmail.com)