

Bio-data

Name: J. Arutchelvi
Designation: Assistant Professor
Department: Biotechnology
Name of the College: St. Joseph's College, Tiruchirappalli
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Academic Qualification					
Serial Number	Degree	Subject	Name of the Institution/University	Month & Year of Passing	Percentage of Marks
1.	PhD	Biotechnology	Indian Institute of Technology Madras, Chennai	July, 2013	NA
3.	M.Sc.,	Biotechnology	Loyola College, Madras University, Chennai	May, 2001	76
4.	B.Sc.,	Biochemistry	Holy Cross College, Bharathidasan University, Tiruchchirappalli	May, 1999	77

Work Experience

	Designation	Name of the Institute	Period
1	Assistant Professor	St. Joseph's College, Tiruchchirappalli, Tamil Nadu	June 2023 to till Present
2	Assistant Professor	Chaitanya Degree and PG College for Women, Gajuwaka, Visakhapatnam, Andhra Pradesh	June 2022 to May 2023
3	Research Scientist Natural Products	Piramal Enterprises Ltd., - Life Sciences, Mumbai, Maharashtra	October 2013 to September 2014
4	Senior Research Fellow	Indian Institute of Technology Madras, Chennai, Tamil Nadu	October 2010 to July 2013
5	Junior Research Fellow	Indian Institute of Technology Madras, Chennai, Tamil Nadu	October 2007 to October 2010
6	Project Assistant	Indian Institute of Technology Madras, Chennai, Tamil Nadu	May 2006 to October 2007
7	Junior Research Fellow	Indian Institute of Science, Bangalore, Karnataka	August 2003 to October 2005
8	Lecturer	Loyola College, Chennai, Tamil Nadu	June 2002 to July 2003
9	Lecturer	JJ College of Arts and Science, Pudukkottai, Tamil Nadu	October 2001 to May 2002

Awards and Honors

- Lectureship-NET conducted by Joint UGC-CSIR. December 2002
- GATE 2003 and GATE 2006
- Received **DST Travel Grant** to present a paper in MICOTriBE 2009, PWTC, **Kuala Lumpur, Malaysia**
- Received **IITM Alumni Fund** to present a poster in Colloids and Nanomedicine 2012, **Amsterdam, The Netherlands**.

GenBank Deposition

- **Arutchelvi, J.**, Bhaduri, S., Uppara, P.V. and Doble, M. 2009.
GenBank Accession Number: GQ241354 (*Bacillus subtilis* YB7)
<https://www.ncbi.nlm.nih.gov/nuccore/GQ241354.1>
- **Arutchelvi, J.** and Doble, M. 2010
GenBank Accession Number: GQ241355 (*Pseudomonas aeruginosa* CPCL)
<https://www.ncbi.nlm.nih.gov/nuccore/251830149>
- Sowmiya, B., **Arutchelvi, J.**, Edward, A., Asha Monica, A. and Swabna, V. 2024.
GenBank Accession Number: PP718026 (*Bacillus subtilis* strain AR02)
<https://www.ncbi.nlm.nih.gov/nuccore/PP718026.1>
- Edward, A., Asha Monica, A., Swabna, V., **Arutchelvi, J.** and Gowtham, R. 2023.
GenBank Accession Number: OR889153 (*Solenopsis geminata* voucher HBPUACDNA0071 cytochrome c oxidase subunit I (COX1) gene),
<https://www.ncbi.nlm.nih.gov/nuccore/OR889153.1>
- Edward, A., Asha Monica, A., Swabna, V., **Arutchelvi, J.** and Gowtham, R. 2023.
GenBank Accession Number: OR889152 (*Tetraoponera rufonigra* voucher HBPUACDNA0072 cytochrome c oxidase subunit I (COX1) gene).
<https://www.ncbi.nlm.nih.gov/nuccore/OR889152.1>
- Edward, A., Asha Monica, A., Swabna, V., **Arutchelvi, J.** and Gowtham, R. 2023.
GenBank Accession Number: OR889116 (*Anoplolepis gracilipes* voucher HBPUACDNA0070 cytochrome c oxidase subunit I (COX1))
<https://www.ncbi.nlm.nih.gov/nuccore/OR889116.1>
- Edward, A., Asha Monica, A., Swabna, V., **Arutchelvi, J.** and Gowtham, R. 2023.
GenBank Accession Number: OR889100 (*Camponotus compressus* voucher HBPUACDNA0069 cytochrome c oxidase subunit I (COX1) gene)
<https://www.ncbi.nlm.nih.gov/nuccore/OR889100.1>

- Edward, A., Asha Monica, A., Swabna, V., **Arutchelvi, J.** and Gowtham, R. 2023. GenBank Accession Number: OR889097 (*Paratrechina longicornis* voucher HBPUACDNA0068 cytochrome c oxidase subunit I (COX1) gene) <https://www.ncbi.nlm.nih.gov/nuccore/OR889097.1>
- Tomy, T. L., Snega, S., Edward, A., Asha Monica, A., Swanba, V. and Arutchelvi, J. 2024. GenBank Accession Number: NZ_JBFLGM000000000 (*Bacillus cereus* strain SJCBTGEN01; Whole genome shotgun sequencing project) https://www.ncbi.nlm.nih.gov/nuccore/NZ_JBFLGM000000000.1

Publications

Author Index	Google Scholar	Scopus
Total citation	1387	796
h-index	10	8
i-10 index	10	

1. **J. Arutchelvi**, J. Sangeetha, J. Philip, M. Doble, Self-assembly of surfactin in aqueous solution: role of divalent counterions, Colloids and Surfaces B: Biointerfaces, 116 (2014) 396-402 **(Current Impact factor: 5.4)**
2. J. Sangeetha, T. Susha, **J. Arutchelvi**, M. Doble, J. Philip, Functionalization of iron oxide nanoparticles with biosurfactants and biocompatibility studies, Journal of Biomedical Nanotechnology, 9 (2013) 751-764. **(Current Impact factor: 4.48)**
3. **J. Arutchelvi**, C. Joseph, M. Doble, Process optimization for the production of rhamnolipid and formation of biofilm by *Pseudomonas aeruginosa* CPCL on Polypropylene, Biochemical Engineering Journal, 56 (2011) 37-45. **(Current Impact factor: 3.7)**
4. **J. Arutchelvi**, M. Doble, Characterization of glycolipid biosurfactant from *Pseudomonas aeruginosa* CPCL isolated from petroleum contaminated soil, Letters in Applied Microbiology, 51 (2010) 75-82. **(Current Impact factor: 2.0)**
5. A. Arkatkar, **J. Arutchelvi**, M. Sudhakar, S. Bhaduri, P.V. Uppara, M. Doble, Approaches to enhance the biodegradation of polyolefins, Open Environmental Engineering Journal, 2 (2009) 68-80.
6. **J. Arutchelvi**, S. Bhaduri, P.V. Uppara, M. Doble, Production and characterization of biosurfactant from *Bacillus subtilis* YB7, Journal of Applied Sciences, 9 (2009) 3151-3155.
7. A. Arkatkar, **J. Arutchelvi**, S. Bhaduri, P.V. Uppara, M. Doble, Degradation of untreated and thermally pretreated polypropylene by soil consortia, International Biodeterioration Biodegradation, 63 (2009) 106-111. **(Current Impact factor: 4.1)**

8. **J. Arutchelvi**, S. Bhaduri, P.V. Uppara, M. Doble, Mannosylerythritol lipids: a review, *Journal of Industrial Microbiology and Biotechnology*, 35 (2008) 1559-1570. **(Current Impact factor: 3.2)**
9. **J. Arutchelvi**, A. Arkatkar, M. Doble, S. Bhaduri, P.V. Uppara, Biodegradation of polyethylene and polypropylene, *Indian Journal of Biotechnology*, 7 (2008) 9-22. **(Current Impact factor: 0.3)**

Book Chapter

1. **J. Arutchelvi**, M. Doble, Mannosylerythritol lipid: microbial production and their applications. pp. 145-177. In: G. Soberon-Chavez, (ed.), *Biosurfactants*, Microbiology Monographs 20, Springer-Verlag, Berlin, 2011.

Conferences

1. **J. Arutchelvi**, M. Doble, (15th to 17th July, 2012) Effect of counterions on micellar morphologies of cyclic lipopeptide produced by *Bacillus subtilis* YB7. Poster presentation. Colloids and Nanomedicine 2012, Amsterdam, The Netherlands. **Received IIT Madras Alumni fund**
2. **J. Arutchelvi**, M. Doble, (3rd to 4th September, 2010) Characterisation of biosurfactants produced by bacteria. Oral presentation. RSC-West India section PhD student's symposium, Goa University, Goa, India.
3. **J. Arutchelvi**, S. Bhaduri, P.V. Uppara, M. Doble, (12th to 13th December, 2009) Biosurfactant produced by microorganism isolated from petroleum contaminated site. Oral Presentation. Malaysian International Conference on Trends in Bioprocess Engineering, MICOTriBE 2009, PWTC, Kuala Lumpur, Malaysia. **Received DST Travel Grant**
4. **J. Arutchelvi**, S. Bhaduri, P.V. Uppara, M. Doble, (12th to 14th August, 2009) Production and characterization of biosurfactant from *Bacillus subtilis* YB7. Oral Presentation. 3rd International Conference on Chemical and Bioprocess Engineering (ICCBPE-2009), Kota Kinabalu, Sabah, Malaysia.
5. A. Arkatkar, **J. Arutchelvi**, S. Bhaduri, P.V. Uppara, M. Doble, (21st to 24th November, 2007) Biodegradation studies on thermally pretreated polypropylene. Poster Presentation. International conference on new horizons in biotechnology (NHBT 2007), NIIIST, Trivandrum, India.
6. **J. Arutchelvi**, A. Arkatkar, S. Bhaduri, P.V. Uppara, M. Doble, (11th to 12th January, 2007) Biodegradation of polypropylene with soil organism. Poster Presentation. 5th International Conference on Indian Association of Applied Microbiologist (IAAM) on Emerging trends and evolving technologies in applied microbiology with special reference to microbial nanotechnology, Sri Sankara Arts and Science College, Enathur, Kanchipuram, India.
7. A. D. Ketkar, **J. Arutchelvi**, A. R. Shenoy, U. A. Ramagopal, S. S. Visweswariah and K. Suguna, (10th to 12th January, 2005) Crystallographic analysis of nucleotide cyclases from *Mycobacterium tuberculosis*. Oral Presentation. 34th National Conference on Crystallography, University of Guwahati, India.

Workshops, Webinars and Science talks Participated

- ◆ Attended ACS Science talk on “**Photo physics of skin pigment melanin**” on 25th June, 2024.
- ◆ Two days online **workshop on “Dental Biomaterials** by Prof. Mukesh Doble, Distinguished Professor, Prof (Retd), IITM” Which was organized by NPTEL from **01st June to 2nd June, 2024.**
- ◆ One day Webinar on “**Biomaterial Science and Technology – Know your Basics**” at Saveetha Dental College and Hospital, Chennai on September 30th, 2023.
- ◆ One day workshop on “**Intellectual Property Rights**” held on March 15th, 2023, organized by Chaitanya Degree and PG College for Women, Visakhapatnam.
- ◆ One day workshop on “**Nutritional Value of Millets**” held on March 10th, 2023, organized by Chaitanya Degree and PG College for Women in collaboration with BCT Krishi Vigyan Kendra, Visakhapatnam.
- ◆ One day workshop on “**Women Entrepreneurship**” held on March 8th, 2023, organized by Chaitanya Degree and PG College for Women, Visakhapatnam.
- ◆ **CCP4** workshop at Indian Institute of Science, Bangalore. March 2005

Faculty Development Programmes Participated

- ◆ Fifteen days **Hi-Impact FDP** which was organized by **Joseph’s Hub for Languages (JHL)**, St. Joseph’s College, Tiruchirappalli from **06th May, 2024 to 24th May, 2024.**
- ◆ One week FDP on “**CADD and system biology**” that was organized by Holy Cross College (Autonomous), Tiruchirappalli from **18th December to 22nd December, 2023.**
- ◆ One day FDP on “**Academic Research in Science**” that was organized by **St. Joseph’s College (Autonomous)** and held on **9th December, 2023.**
- ◆ One day FDP on “**Patent and Consultancy**” organized by **St. Joseph’s College (Autonomous)**, which is held on **20th November, 2023.**
- ◆ One day FDP on “**Intricacies of writing for research publications and projects**” organized by St. Joseph’s College (Autonomous) on **27th October, 2023.**
- ◆ Seven-days FDP on “**Emerging Trends in Intellectual Property Rights**” with **A⁺ grade** held from **14th to 21st August, 2023** organized by **Vimala College (Autonomous)**, Thrissur, Kerala.
- ◆ One day FDP on “**Research Writing**” organized by **St. Joseph’s College (Autonomous)**, Trichy on **22nd July, 2023.**
- ◆ Three days **Orientation programme** conducted by **Higher Education Commission, Madurai Jesuit Province**, Madurai held from **05th June to 7th June, 2023.**
- ◆ Participated in **Teaching Assistant Training Program – 2012** at **Indian Institute of Technology Madras**, Chennai. February, 2012.
- ◆ Participated in **Faculty Development Program for Research Scholar (FDP – RS)** at **Indian Institute of Technology Madras**, Chennai. August, 2011.

Seminars and Club activities Organized

- Organized a webinar on “**Applications of DNA Barcodes in herbal Drug industry**” on **19th February, 2024**.
- Acted as an organizing secretary for a **one-day national seminar on “Recent Advances in Biomedical Technology (RABT-2024)** in the Department of Biotechnology, St. Joseph’s College (Autonomous), Tiruchirappalli, on **2nd February, 2024**.
- Successfully created a Trojan Horse Club and conducted a workshop on “**Foldscope - smartphone based tiny scope**” on **1st September, 2023** and a Seminar on “**Structure Based Novel therapeutics targeting oxidized lipoprotein Receptor LOX-1 for Atherosclerotic Cardiovascular Diseases**” on **19th December, 2023**.