

Dr. A. EDWARD
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Department of Biotechnology
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TEACHING EXPERIENCE - 21 Years

2003 – Till date: Assistant Professor in Biotechnology, St. Joseph's College, Trichy.

ADMINISTRATIVE EXPERIENCE

- Member, Board of Studies in Biotechnology, Bharathidasan University, Tiruchirappalli.
- Member, Board of Studies in Biotechnology, Bishop Heber College, Tiruchirappalli.
- Member, Board of Studies in Biotechnology, St. Joseph's College, Tiruchirappalli.
- Member, Intellectual Property Rights Cell, St. Joseph's College, Tiruchirappalli.
- Ex-President of the Biotechnology Association, St. Joseph's College, Tiruchirappalli.

SPECIALIZATION

- Molecular Microbiology

ACADEMICS

- Full time **teaching faculty** (Self-financing: Regular) since June 2003.

Position & Employment

- Institution & Place : St Joseph's College, Trichy – 620 002
- Position : Assistant Professor

EDUCATION

| Degree | College & University | Year | Class | % Marks |
|-------------------------|---|-----------|---------------------|---------|
| PhD Biotechnology | St. Joseph's College Tiruchirappalli, 620 002. (Affiliated to Bharathidasan University) | 2007-13 | Commended thesis | |
| M. Sc. Biotechnology | Loyola College (Autonomous) Chennai, 600 034. (Affiliated to University of Madras) | 1999-2001 | First | 4.59/5 |

| | | | | |
|------------------|--|---------|-------|------|
| B. Sc. Botany | Loyola College (Autonomous) (Affiliated to University of Madras) Chennai, 600 034. | 1996-99 | First | 76.0 |
|------------------|--|---------|-------|------|

Title of the PhD Thesis

- An investigation on the integrons and their gene cassettes in stressful environment.

Honors/Awards

- **Ex-Member** of *Member Quality Assurance Cell (IQAC)* of St Joseph's College.

Fellowships and Training

- Selected as IASc-INSA-NASI Summer Research Fellow and undergone two months training under Prof. Deepak Pental, Centre for Genetic Manipulation of Crop Plants (CGMCP), Department of Genetics, University of Delhi South Campus, New Delhi, India from 01 May – 30 June 2008 titled "**MOLECULAR MAPPING OF BRASSICA JUNCEA GENOME USING INTRON POLYMORPHISM MARKERS**".

Resource Person

- **Convener** for Two-day International Webinar on "Research Insights in Human diseases", at Department of Biotechnology, St. Joseph's College, Trichy, Tamilnadu, India. 28 & 29th September 2021.
- **Convener** for One-day Webinar Series on "BIG Awareness", at Department of Biotechnology, St. Joseph's College, Trichy, Tamilnadu, India. 29th January 2022.
- **Convener** for Two-day National Webinar Series on "Journeying through Intellectual Property Protection and Bio-Entrepreneurship", at Department of Biotechnology, St. Joseph's College, Trichy, Tamilnadu, India. 20 and 21st October 2021.
- **Resource Person** for One-day workshop on "PCR Techniques", at Department of Botany, St. Joseph's College, Trichy, Tamilnadu, India. 09th March 2023.
- **Convener** for One-day Technical Fest on "Bio-De-Fiesta", at Department of Biotechnology, St. Joseph's College, Trichy, Tamilnadu, India. 14th October 2022.
- **Convener** for One-day Technical Fest on "Bio-De-Fiesta", at Department of Biotechnology, St. Joseph's College, Trichy, Tamilnadu, India. 22nd September 2023.
- **Convener** for One-day CME on "How to protect your Heart?" at Department of Biotechnology, St. Joseph's College, Trichy, Tamilnadu, India. 28th February 2023.
- **Resource Person** for Two days' workshop on "**Molecular Techniques**", organized by Sengamala Thayar Educational Trust Women's College, Mannargudi, Tamilnadu,

India. 19 & 20 January 2006.

- **Organizing Secretary** for One-day workshop on “Techniques in Molecular Pathology and Diagnostics” at Department of Biotechnology, St. Joseph’s College, Trichy, Tamilnadu, India. 24th September 2014.
- **Co-Organizing Secretary** for One-day workshop on “Techniques in DNA Barcoding” at Department of Biotechnology, St. Joseph’s College, Trichy, Tamilnadu, India. 10th December 2014.
- **Organizing Secretary** for One day “International Scientist Meet” at Department of Biotechnology, St. Joseph’s College, Trichy, Tamilnadu, India. 15th December 2015.
- **Organizing Secretary** for One Day National Seminar on “Prospects and Challenges in Stem cell research” at Department of Biotechnology, St. Joseph’s College, Trichy, Tamilnadu, India. 12th January 2015.
- **Resource Person** in handling CSIR-NET Coaching organized by the Department of Botany, St. Joseph’s College, Trichy, Tamilnadu, India.
- **Resource Person** on “Rhizosphere microbes and its role” and handled practical sessions for the Short Term Training Course (STTC) on “*In vitro* and *In vivo* methods in Bioresource conservation sponsored by Department of Biotechnology (DBT), Ministry of Science and Technology, Govt. of India, New Delhi, organized by the Department of Biotechnology, St. Joseph’s College, Tiruchirappalli. 06-17 July, 2015.
- **Organizing Secretary** for One Day National Level Technical Workshop on “Next Generation Sequencing” at Department of Biotechnology, St. Joseph’s College, Trichy, Tamilnadu, India. 10th September 2015.
- **Resource Person** on One day Workshop on “Microbial Identification by PCR”, organized by the Department of Biotechnology, Seethalakshmi Ramaswami College, Trichy. 25 September 2015.
- **Resource Person** on One day Workshop on “Electrophoretic techniques” for Undergraduate students in Botany of St. Joseph’s College sponsored by the Department of Biotechnology (DBT), Govt. of India under Star College Scheme. 19 January 2016.

Guide ship

- Research Adviser in Biotechnology (Ref. No. 46432/Ph.D.K7/Biotechnology/R.A. – Recogn. Date: 23.12.2013).

Conference/ Seminar /Symposium Attended

- Five days Online FDP on ***Life Science Teaching Towards Product Development A Transdisciplinary Perspective***, Organized by Department of Biotechnology, Holy Cross College, Tiruchirappalli, India. October 2021.

- One-day workshop on *Polymerase Chain Reaction*. Organized by Department of Biotechnology, St. Joseph's College, Tiruchirappalli, India and Eppendorf, India. July 2003
- Two days' workshop on *Advanced Biochemical Techniques and tissue culture*. Organized by the Departments of Biotechnology and Biochemistry, St. Joseph's college, Tiruchirappalli, India. August 2003.
- One-day workshop on *Techniques in Fluorescent Microscopy*. Organized by Department of Botany, St. Joseph's College, Tiruchirappalli, India. February 2004.
- Two days' workshop on *Techniques in Clinical and Experimental Immunology*. Organized by Department of Biochemistry, St. Joseph's College, Tiruchirappalli, India. February 2004.
- Seminar on *Immunoinformatics*, Organized by Department of Biochemistry, St. Joseph's College, Tiruchirappalli, India. 2004.
- Seminar on *Molecular Virology*, Organized by Department of Biotechnology, St. Joseph's college, Tiruchirappalli, India, August 2004.
- Two days State level workshop on *Techniques in Plant Tissue Culture and Histochemistry*, Organized by Department of Botany, St. Joseph's College, Tiruchirappalli, India. September 2004.
- National level seminar on *Digitalised information exchange for quality sustenance and enhancement among accredited institutions*, Organized by St Joseph's College, Tiruchirappalli, TN, India. 3 & 4 March 2005.
- Five days National level workshop on *Generation and purification of Polyclonal and Monoclonal antibodies for the diagnosis of infectious diseases*, Organized by Department of Microbiology, PSG College of Arts and Science, Coimbatore, India. October 2005.
- One -Day National Seminar on *Environmental Genomics* at Bharathidasan University, Tiruchirappalli, India. 20 March 2006
- One-day National level workshop on *Patent awareness* sponsored by Technology Information Forecasting and Assessment Council and Tamil Nadu State Council for Science and Technology, Organized by Department of Biotechnology, St. Joseph's College, Tiruchirappalli, India. April 2006
- Three days' National level workshop on *Bioinformatics: Tools and Applications* sponsored by Bioinformatics Facility, Department of Biotechnology (DBT), New Delhi Organized by Department of Biotechnology & Bioinformatics, Holy Cross College, Tiruchirappalli, India. January 2006.
- Three days International Conference on Third Indo - US Lecture series on "*Discrete Mathematical Chemistry: Chemoinformatics and Bioinformatics*", at Bharathidasan University, 7 to 10 January 2008.

- Two days National Conference on “*Quality Enhancement and Sustenance in Higher Educational Institutions through Six Sigma (6σ) Quality Strategy*” at St. Joseph’s College, Tiruchirappalli, India. 23 – 24 October 2008
- Two days National Conference on “*Higher Education and National Development - The Challenge of expansion, quality and inclusion*”, at St. Joseph’s College, Tiruchirappalli, India. 30 – 31 January 2009.
- 10 days’ workshop on “**In Glass technology for bioresource conservation**” at Department of Biotechnology, St. Joseph’s College, Trichy. 28th January – 06th February, 2015.
- One day National Symposium on “**Recent advances in medicinal and aromatic plants (NASYMP’ 15)**” at Department of Botany, St. Joseph’s College, Tiruchirappalli, India. 05 February 2015.
- Two days Science Academies Lecture workshop on “**Vistas in Biosciences**” at Department of Botany, St. Joseph’s College, Tiruchirappalli, India. 30 & 31 January, 2015.
- Four days’ workshop on “**Capacity building workshop for faculty on e-Content development**” at IQAC, St. Joseph’s College, Tiruchirappalli, Tamilnadu, India. 09-12th June 2015.
- Two days’ workshop on “**Innovative Curriculum designing and evaluation**” at Curriculum Development Cell, Bharathidasan University, Tiruchirappalli, Tamilnadu, India. 13th & 14th August 2015.
- One-day workshop on “**On-farm food processing**” at St. Joseph’s College, Tiruchirappalli, India. 11 January 2016.
- One-day International Seminar on “**Cardiovascular Research**” at Department of Biochemistry, St. Joseph’s College, Tiruchirappalli, India. 15th February 2016.
- Two days Science Academies Lecture workshop on “**Bioprospecting and Bioresources**” at Department of Botany, St. Joseph’s College, Tiruchirappalli, India. 10 – 12th February, 2016.
- Two days National Conference on “**Higher Education in the knowledge age: Techno-Pedagogical Perspectives and Innovations**” at St. Joseph’s College, Tiruchirappalli, India. 24th & 25th February 2016.
- Two days National Colloquium on “**Autonomous Institutions Marching Towards University Status**”, St. Joseph’s College, Tiruchirappalli, India. 4 – 5 March 2019.

RESEARCH PROJECT

- Metagenomics of uncultured halophilic bacterial communities from the upper cretaceous fossil sediments of Ariyalur basin of Tamilnadu. UGC-SERO Minor Project (2014-16). MRP – 5825/15 (SERO/UGC).

PUBLICATIONS

In Journals

- Asha Monica Alex Rajarathinam, Kumar Sathish, Swabna Vivekanadam and **Arockiasamy Edward**. 2024. Green Synthesis and Characterization of Silver Nanoparticles from *Santalum album* and their Antimicrobial Antioxidant and Anticancer Activity. *International Journal of Zoological Investigations*. 10 (1), 355-363.
- **Edward**, 2019. Phylogenetic Analysis of 16S Ribosomal DNA Sequences of Uncultured Bacterial Communities from the Cretaceous Fossil Sediments of Ariyalur Basin. *International Journal of Pure & Applied Bioscience*. 7 (3), 341-345.
- **Edward**, 2017. Phylogenetic analysis of unculturable halophilic bacteria in the fossil sediments of Ariyalur basin. *International journal of Pure and Applied Bioscience*, 5(5): 348-352.
- **Edward et al.**, 2014. Investigation of antibacterial and haemolytic activity of Russell's viper and *Echis carinatus* venom. *Asian Journal of Pharmaceutical Analysis*, 4:1-4.
- **Edward et al.**, 2014. Monosodium glutamate exposure alters histopathological and biochemical variables in rats under constant light. *Asian Journal of Research in Pharmaceutical Sciences*. 4:1-4.
- **Edward et al.**, 2013. Evaluation of antifungal activity of peptides and enzymes against the Sugarcane Red Rot Pathogen, *Colletotrichum falcatum*. *Middle-East Journal of Scientific Research*, 15 (5): 748-756.
- **Edward et al.**, 2012. Purification and characterization of lectins from *Adhatoda vasica*. *Journal of Tropical Medicinal Plants*, 13(2):129-132.
- **Edward et al.**, 2012. Role of Efflux Pumps in Affording Organic Solvent Tolerance to Bacterial Strains from Petroleum Contaminated Soil. *Middle-East Journal of Scientific Research* 12 (1): 80-87.
- **Edward et al.**, 2012. An Investigation on Organic solvents tolerance, Heavy metals and Antibiotics resistance of *Bacillus oleroniensis* from Petroleum contaminated soil. *Nature and Science*, 10(10): 69-75.
- Antony Prabhu J, Melchias G, Sridevi, Beena Ann and **Edward A.** 2012. Biodegradation of azo dyes by microbial population isolated from upper cretaceous limestone rocks. *International Journal of Institutional Pharmacy and Life Sciences*, 2(2): 125-132.
- Antony Prabhu J, Melchias G, Angel Priya J and **Edward A.** 2012. Significance of microbiological diversity of the upper cretaceous fossil soil. *International Journal of Institutional Pharmacy and Life Sciences*, 2(2): 63-70.
- Kalaiyarasan, S. Ahmed John and **A. Edward**. 2012. Antimicrobial activity of orchid root, Eastern Peninsular Flora in India. *Nature and Science*, 10(11): 63-67.

- Kalaiyarasan, S. Ahmed John and **A. Edward**. 2012. Evaluation of phytochemical and antimicrobial properties of orchid in Kolli hills. *Nature and Science*, 10(10): 184-188. (ISSN No. - 1545-0740)
- Eby John, Linson Thomas, **Edward A**, Melchias G and Jeyapaul Antony Prabhu. 2011. DNA Barcoding: A New-Fangled Global Standard of Taxonomical Frontier –A Review. *World Applied Sciences Journal* **15** (3): 304-310. (Citation – 1)
- **Edward A**, Melchias G, J. Antony Prabhu, A. Wilson, V. Anbananthan and K. Sivaperumal. 2011. Detection of exopolysaccharides / bioemulsifier producing bacterial isolates from petroleum contaminated soil. *International Journal of Biological Technology* **2**(2): 1-7. (Citation – 4)
- **Edward A**, Melchias G, Eby J. and Linson T. 2011. Comparative *in silico* and phylogenetic analysis of 16S rRNA of *Bacillus oleronius* strain isolated from petroleum contaminated soil. *Electronic Journal of Environmental Sciences* **4**: 91-98.

Books Published

The Blue Print of Life: A Road Map to Synthetic Biology. Dr. A. Asha Monica, Dr. V. Swabna and **Dr. A. Edward**. 2023.

National

1. *Combined Multispecific Immunostimulators (CMI) for Malaria*, A National Level Technical Symposium Genesis 2K5, Organized by School of Engineering and Technology, Bharathidasan University, 14th & 15th October 2005.

M.Phil Awarded to

| Scholar Code | Scholar Name | Date of ViVa | Title |
|--------------|-----------------|--------------|---|
| 14MBT102 | B. Dhivya | 2015 | Molecular characterization and Evaluation of selected Actinomycetes and other isolates against human pathogens. |
| 14MBT101 | S. Praveena | 2015 | Studies on Biochemical characterization, Plasmid profile, biofilm formation and antimicrobial susceptibility. |
| 14MBT108 | G. Gomathi | 2015 | DNA barcoding of selected xerophytic plants |
| 16MBT101 | R. Queen Prabha | 2017 | Molecular characterization of zooplanktons in Indian Waters |
| 15MBT101 | C. Charan Kumar | 2016 | DNA barcoding of Tomato Leaf Miner, <i>Tuta absoluta</i> |
| 16MBT103 | K. Gracy Angel | 2017 | Phylogenetic diversity of fungi associated with tarballs from Betul Beach, Goa |

16S Ribosomal RNA, Small subunit ribosomal RNA gene and Internal transcribed spacer Nucleotide Sequences Deposited with NCBI

| S. No | Accession | Organisms |
|-------|-----------|-----------|
|-------|-----------|-----------|

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|----|------------|---|
| 1 | HQ848274.1 | <i>Exiguobacterium sp.</i> AFB-18 |
| 2 | HQ848273.1 | <i>Bacillus licheniformis</i> strain AFB-15 |
| 3 | HQ848272.1 | <i>Exiguobacterium aurantiacum</i> AFB-13 |
| 4 | HQ848271.1 | <i>Bacillus licheniformis</i> strain AFB-12 |
| 5 | HQ848270.1 | <i>Citricoccus alkalitolerans</i> strain AFB10 |
| 6 | HQ848269.1 | <i>Pseudomonas sp.</i> AFB-9 |
| 7 | HQ848268.1 | <i>Bacillus sp.</i> AFB-6 |
| 8 | HM449701.1 | <i>Dietzia sp.</i> PCSB5 |
| 9 | HM449700.1 | <i>Gordonia sp.</i> PCSB4 |
| 10 | GQ288406.1 | <i>Bacillus oleronius</i> strain SJC04.edm |
| 11 | GQ288405.1 | <i>Bacillus oleronius</i> strain SJC03.ost.edme |
| 12 | GQ288404.1 | <i>Roseomonas sp.</i> sjc02.ost.edme |
| 13 | GQ288403.1 | <i>Bacillus sp.</i> sjc01.ost.em |
| 14 | HM449703.1 | <i>Microbacterium testaceum</i> strain PCSB7 |
| 15 | HM449702.1 | <i>Micrococcus luteus</i> strain PCSB6 |
| 16 | HM449699.1 | <i>Micrococcus sp.</i> PCSB3 |
| 17 | HM449698.1 | <i>Bacillus cereus</i> strain PCSB8 |
| 18 | HM749895.1 | <i>Micrococcus luteus</i> strain PCSB9 |
| 19 | HM012706.1 | <i>Bacillus oleronius</i> strain PCSB2 |
| 21 | GU971729.1 | <i>Pseudomonas geniculata</i> strain AFB 7 |
| 22 | GU971728.1 | <i>Pseudomonas putida</i> strain AFB 3 |
| 23 | GU971727.1 | <i>Stenotrophomonas maltophilia</i> strain AFB 2 |
| 24 | GU971726.1 | <i>Bacillus halodurans</i> strain AFB 1 |
| 25 | JQ923487 | Glutamate 5- Semialdehyde dehydrogenase |
| 26 | JQ923488 | Alanine transaminase transcriptional regulator |
| 27 | GU971727.1 | <i>Stenotrophomonas maltophilia</i> strain AFB 2 |
| 28 | JQ923489 | Putative acyl-[acyl-carrier protein] desaturase |
| 29 | JQ923490 | Putative deltaaminolevulinic acid dehydratase |
| 30 | JQ923491 | Putative uroporphyrinogen-III synthetase |
| 31 | JQ923492 | Hypothetical Sugar diacid regulator |
| 32 | HQ848274.1 | <i>Exiguobacterium sp.</i> AFB-18 |
| 33 | HQ848268.1 | <i>Bacillus sp.</i> AFB-6 |
| 34 | HQ848269.1 | <i>Pseudomonas sp.</i> AFB-9 |
| 35 | JQ923493 | Unknown Patatin like phospholipase |
| 36 | JQ923494 | SSS Family solute/sodium (Na ⁺) symporter |
| 37 | MF289386 | Uncultured <i>Brevibacterium sp.</i> clone MJC01 |

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|---|------------|--|
| 38 | MF289387 | Uncultured <i>Bacillus</i> sp. clone MJC02 |
| 39 | MF289388 | Uncultured <i>Bacillus</i> sp. clone MJC03 |
| 40 | MF289389 | Uncultured <i>Brevibacterium</i> sp. clone MJC04 |
| 41 | MF289390 | Uncultured bacterium clone MJC05 |
| 42 | MF289391 | Uncultured <i>Bacillus</i> sp. clone MJC06 |
| 43 | MF289392 | Uncultured <i>Bacillus</i> sp. clone MJC07 |
| 44 | MF289393 | Uncultured <i>Bacillus</i> sp. clone MJC08 |
| 45 | MF289394 | Uncultured <i>Bacillus</i> sp. clone MJC09 |
| 46 | MF289395 | Uncultured <i>Bacillus</i> sp. clone MJC10 |
| 47 | MF289396 | Uncultured <i>Bacillus</i> sp. clone MJC11 |
| 48 | MF289397 | Uncultured bacterium clone MJC12 |
| 49 | MF289398 | Uncultured <i>Brevibacterium</i> sp. clone MJC13 |
| 50 | MF289399 | Uncultured <i>Bacillus</i> sp. clone MJC14 |
| 51 | MF289400 | Uncultured <i>Bacillus</i> sp. clone MJC15 |
| 52 | MF289401 | Uncultured <i>Bacillus</i> sp. clone MJC16 |
| 53 | MF289402 | Uncultured <i>Bacillus</i> sp. clone MJC17 |
| 54 | MF289403 | Uncultured <i>Bacillus</i> sp. clone MJC18 |
| 55 | MF289404 | Uncultured <i>Streptomyces</i> sp. clone MJC19 |
| 56 | MF289405 | Uncultured <i>Streptomyces</i> sp. clone MJC20 |
| 57 | MF289406 | Uncultured <i>Streptomyces</i> sp. clone MJC21 |
| 58 | MF289407 | Uncultured <i>Streptomyces</i> sp. clone MJC22 |
| 59 | KX059328 | Uncultured bacterium clone MN04 |
| 60 | KX059329 | Uncultured bacterium clone MN02 |
| 61 | KX059330 | Uncultured bacterium clone RAZ02 |
| 62 | KX059331 | Uncultured <i>Bacillus</i> sp. clone RAZ01 |
| 63 | KX059332 | Uncultured <i>Bacillus</i> sp. clone RAZ03 |
| 64 | KX059333 | Uncultured bacterium clone MAV04 |
| 65 | KX059334 | Uncultured <i>Pseudomonas</i> sp. clone MAV03 |
| 66 | KX059335 | Uncultured <i>Acinetobacter</i> sp. clone MAV01 |
| 67 | KX059336 | Uncultured <i>Pseudomonas</i> sp. clone MAV02 |
| 68 | KX059337 | Uncultured bacterium clone MA05 |
| 69 | KY864923 | <i>Enterobacter hormaechei</i> strain E08 |
| 70 | KY873311 | <i>Stenotrophomonas maltophilia</i> strain F08 |
| 71 | OQ834461.1 | <i>Staphylococcus pasteurii</i> strain TEM 1 |
| 72 | OR242492.1 | <i>Microcoleus autumnalis</i> Aj02 |
| ALGAL DNA SEQUENCES (Small subunit ribosomal RNA gene, Partial sequence) | | |

| | | |
|--|------------------------|---|
| 73 | OR257833.1 | <i>Nostoc commune</i> Aj01 |
| 74 | OR250718.1 | <i>Chlorella sp.</i> Aj04 |
| 75 | OR250419.1 | <i>Microcoleus autumnalis</i> Aj07 |
| 76 | OR250420.1 | <i>Oscillatoria sp.</i> Aj01 |
| 77 | OR243900.1 | <i>Micractinium sp.</i> isolate Aj08 |
| 78 | OR243899.1 | <i>Chlorella sorokiniana</i> isolate Aj05 |
| 79 | OR242493.1 | <i>Microcoleus sp.</i> Aj04 |
| FUNGAL DNA SEQUENCES (Internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and Internal transcribed spacer 2, partial sequence) | | |
| 80 | KU837244.1 | <i>Rhizopus arrhizus</i> strain SJCBT-F06 |
| 81 | KU837242.1 | <i>Bipolaris oryzae</i> strain SJCBT-F04 |
| 82 | KU837241.1 | <i>Fusarium sacchari</i> strain SJCBT-F02 |
| 83 | KU837240.1 | <i>Thielaviopsis paradoxa</i> strain SJCBT-F03 |
| 84 | KU837239.1 | <i>Walthergamsia fusidioides</i> strain SJCBT-F01 |
| 85 | KU837243.1 | <i>Curvularia oryzae</i> strain SJCBT-F05 |
| BACTERIAL AND CHLOROPLAST GENOMES | | |
| 86 | NZ_JBFLGM000000 000 | <i>Bacillus cereus</i> strain SJCBTGEN01 |
| 87 | PRJNA1157708 | Chloroplast genome of <i>Hygrophila auriculata</i> |
| ANTS, SPIDERS AND BEES DNA SEQUENCES [Cytochrome C oxidase subunit I (COX1) gene, partial cds; Mitochondrial] | | |
| 88 | OR889097 | <i>Paratrechina longicornis</i> voucher HBPUACDNA0068 |
| 89 | OR889100 | <i>Camponotus compressus</i> voucher HBPUACDNA0069 |
| 90 | OR889116 | <i>Anoplolepis gracilipes</i> voucher HBPUACDNA0070 |
| 91 | OR889152 | <i>Tetraponera rufonigra</i> voucher HBPUACDNA0072 |
| 92 | OR889153 | <i>Solenopsis geminata</i> voucher HBPUACDNA0071 |
| 93 | PP681317 | <i>Tegrolcinia mirotibialis</i> isolate NU01 |
| 94 | PP681318 | <i>Camponotus compressus</i> isolate CH01 |
| 95 | PP683100 | <i>Apis mellifera</i> isolate PS02 |
| 96 | PP694488 | <i>Argiope anasuja</i> isolate VV01 |
| 97 | PP702393 | <i>Apis cerana</i> isolate Ps01 |
| 98 | PP702400 | <i>Leucauge decorata</i> isolate VV02 |
| 99 | PP702409 | <i>Oecophylla smaragdina</i> isolate CH04 |

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| 100 | PP702411 | <i>Amata passalis</i> isolate KV01 |
| 101 | PP725722 | <i>Apis florea</i> isolate Ps03 |

EXPERTISE IN TECHNIQUES

Molecular Biology techniques

Plasmid DNA isolation from Bacteria

Bacterial genomic DNA isolation

Agarose gel electrophoresis of DNA

Genomic DNA isolation from Animal tissue

Genomic DNA isolation from Blood

Genomic DNA isolation from Plants

Restriction digestion and Ligation

Polymerase Chain Reaction

Bacterial transformation by PEG method

Gel documentation

Immunology Techniques

Immuno-electrophoretic techniques

Immunodiffusion techniques

ELISA

Hemagglutination assay

Biprocess Technology

Solid state fermentation

Enzyme and cell immobilization

Optimization of Fermentation media

Bioinformatics

Sequence Mining and analysis

Sequence alignment and primer design

Computational gene identification

PERSONAL DETAILS

Date of birth: 16.04.1978

Age: 46 Yrs

Nationality: Indian

Religion: Christian