

Dr.J. Subburaj, M.Sc., Ph.D.

Postdoctoral fellow - Genomics

Human Genographic lab

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Education

2009-2014 Ph.D Marine Biotechnology, Centre of Advanced Studies in Marine Biology, Annamalai University, Tamilnadu, India.

2004-2009 M.Sc., (Integrated) Biotechnology, Department of Biochemistry and Biotechnology, Annamalai University, Tamilnadu, India.

Employment

Oct'2014–present Postdoctoral fellow, Chettinad Academy of Research and Education, Chennai, Tamilnadu, India.

Fellowship

Jan'2013– July'2013 **Junior Research Fellow**, Centre of Advanced Studies in Marine Biology, Faculty of Marine Sciences, Annamalai University, supported by University Grand Commission (UGC) - Basic Scientific Research scheme, Govt. of India.

Publication list

In preparation

1. Barathkumar T.R., **Subburaj, J.**, Thangaraj, M. Molecular phylogeny of marine and fresh water catfish families. **Molecular phylogenetics and Evolution**.
2. Chandrasekar, S., **Subburaj, J.**, Sivakumar, R., Thangaraj, M. Genetic diversity and population structure of Pearl spot, *Eetroplus suratensis* (Bloch 1872) in south Indian coast. **Molecular Biology Reports**.

Published

3. **Subburaj, J.**, Barathkumar, TR., Thangaraj, M. 2015. Genetic Fitness and Bottleneck of Threadfin (Sea Catfish), *Arius arius* (Hamilton, 1822) in South Indian Coastline. Proceedings of the National Academy of Sciences, India, Section B Biological Sciences. DOI. 10.1007/s40011-015-0665-z
4. Subashini, S., **Subburaj, J.**, Pugalendi, K.V. 2014. Identification of *Gymnema* species by Random amplified polymorphic DNA technique and *trnK* gene sequences. Journal of Microbiology, Biotechnology and Food sciences 4(3):266-270.
5. Thangaraj, M., Saranya, S., Divya, S., Ramanadevi, V., **Subburaj, J.** 2014. Molecular phylogenetic status of some marine Cymothoid isopods in southeast coast of India. Indian Journal of Geo- Marine science. 43:271-276.
6. Chandrasekar, S., Sivakumar, R., **Subburaj, J.**, Thangaraj, M. 2013. Geographical structuring of Indian pearl spot, *Etroplus suratensis* (Bloch, 1790) based on partial segment of the CO1 gene. Current research in microbiology and Biotechnology. 1:214-217.
7. **Subburaj, J.**, Barathkumar, T.R., Sureshkumar, P., Thangaraj, M. 2013. Phylogenetic and tribal relationship of carangidae family through DNA barcoding region. International Journal of Pharmaceutical and Biological Archives. 4:250-255.
8. **Subburaj, J.**, Barathkumar, T.R., Prem, V., Thangaraj, M., Sivasubramanian, J. 2013. Spectroscopic analysis of five phylogenetically distant fungi (division: ascomycete) from vellar estuary, southeast coast of India – a pilot study. Journal of Microbiology, Biotechnology and Food sciences. 2(5):2355-2359.
9. Ramanadevi, V., Thangaraj, M., Sureshkumar, A., **Subburaj, J.** 2013. Detection of genetic variation and genetic diversity in two Indian mudskipper species (*Boleophthalmus boddarti*, *B. dussumieri*) using RAPD marker. Notulae scientia biologica. 5(2):139-143.
10. Ravichandirane, V., Geetha, V., Janifer, B., Thangaraj, M., **Subburaj, J.**, et al. 2012. Molecular Identification and Phylogenetic Relationships of Threadfin Breems (Family: Nemipteridae) Using mtDNA Marker. Notulae scientia biologica 4(2):13-18.
11. Rajasekar, M., Thangaraj, M., Barathkumar, T.R., **Subburaj, J.**, Muthazhagan, K. 2012. Genetic diversity analysis of *Lates calcarifer* (Bloch 1790) in captive and wild populations using RAPD markers. Notulae scientia biologica 4(3):33-37.
12. Thangaraj, M. Thirumaraiselvi, R., **Subburaj, J.** 2012. Genetic variation and diversity of two brachyuran crab species (*Sesarma brokii* and *Grabsus stigosus*) in an artificially developed mangrove ecosystem. Indian journal of Biotechnology P.111-113.

Genbank submission

Cytochrome oxidase subunit I gene – 104; Cytochrome b gene – 47; Recombination activating 2 gene – 44; Mitochondrial control region – 54; 16S rRNA gene – 24; maturase Kinase gene – 3

Technical Skills

DNA Fingerprinting - Sanger sequencing - Primer design - HLA typing - SNP typing - Phylogenetic analysis - DNA barcode development

Participation in Workshops

1. **Teaching Assistant**, Workshop on Genomics, Proteomics and Bioinformatics (GPB), Department of Biochemistry and Biotechnology, Annamalai University, Tamilnadu, India. July 2013. (**Invited**)
2. Participant, Workshop on Molecular Phylogenetics, Centre of Ecological sciences, Indian Institute of Sciences, Bangalore, India. September 2012.
3. Participant, National workshop on Bioinformatics, Bioinformatic infrastructure facility, Alagappa University, Tamilnadu, India. March 2010.

Professional Association memberships

- Barcode of Life
- Reviewer for Life Science Archives