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Academic Qualifications:

Degree	University	Year	Subjects	Class
B.Sc	Alagappa Govt. Arts College, Madurai Kamaraj University	1991	Zoology	First
M.Sc	Annamalai University	1993	Zoology	First
PhD	Bharathidasan University	2000	Zoology	Highly Commended

Administrative Experience: 10 Years

Research Experience: 10 Years

Areas of Research

Aquatic Toxicology, Xenobiotic Metabolism

Honorary Reviewer

Comparative Biochemistry and Physiology (*Elsevier Publications*)

Aquaculture (*Elsevier Publications*)

Toxicological & Environmental Chemistry (*Taylor and Francis*)

Awards/ Fellowships

- IUBS (International Union of Biological Sciences) -1998- Trainee- Singapore
- UNESCO – Post Doctoral Trainee – 1999-Plymouth Marine Laboratory- UK
- CSIR- RA-2000- India
- MyCT (Spanish Government Project) -2002- Barcelona-Spain
- DST SERB Young Scientist Scheme– CECRI- 2004- India
- NSERC Visiting Fellowship - 2001- Government of Canada (Selected)
- DST SERB Young Scientist Scheme – 2002- Government of India (Selected)
- Japan Government Fellowship -2002 (Selected)
- FyCT – Portugal Government Fellowship- 2002- (Selected)

Funded Research Projects

Completed Projects

S. No	Agency			Project Title	Budget
		Ref: No	Year		
1	UNESCO Project (Biotechnology Action Council, Paris, FRANCE)	SC/LSC/99/MIRCE N	1999	Optimisation of CYP1A immunopositive protein as a biomarker of organic pollution in mussels	4,000 US Dollars
2	Ministerio de Education y Deporte (SPAIN)	B2000-0302	2002-2003	Development and application of biochemical markers in marine and freshwater organisms.	21,600 Euros (for PDF)
3	DST (Department of Science and Technology) FAST TRACK SCHEME	SR/FT/L-52/2003	2004-2006	Cytochrome P450 isoforms in aquatic invertebrates in relation to xenobiotic metabolism: A possible role in pollution monitoring	10,40,000 Rupees

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
12	6	5	-	6

Cumulative Impact Factor	:	37.2
H-index	:	11
i10 index	:	13
Total Citations	:	913

Publications

1. Devi KP, Kiruthiga PV, Pandian SK, Archunan G, **Arun S**. Olive oil protects rat liver microsomes against benzo(a)pyrene-induced oxidative damages: an in vitro study. **Mol Nutr Food Res**. 2008 Jun;52 Suppl 1:S95-102. doi: 10.1002/mnfr.200800047 [IF-4.5].
2. D. Prasad, **S. Arun**, M. Murugesan, S. Padmanaban, R.S. Satyanarayanan, Sheela Berchmans, V. Yegnaraman. Direct electron transfer with yeast cells and construction of a mediatorless microbial fuel cellOriginal Research Article **Biosensors and Bioelectronics**, 2007- 22 :11., 2604-2610 [IF-7.4].
3. **Arun S**, Subramanian P. Cytochrome P450-dependent monooxygenase system mediated hydrocarbon metabolism and antioxidant enzyme responses in prawn, *Macrobrachium malcolmsonii*. **Comp Biochem Physiol C Toxicol Pharmacol**. 2007 May;145(4):610-6. Epub 2007 Feb 21 [IF- 2.5]
4. **Arun S**, Rajendran A, Subramanian P. Subcellular/tissue distribution and responses to oil exposure of the cytochrome P450-dependent monooxygenase system and glutathione S-transferase in freshwater prawns (*Macrobrachium malcolmsonii*, *M. lamarrei lamarrei*). **Ecotoxicology**. 2006 May;15(4):341-6. Epub 2006 May 4. [IF-2.3]
5. Barata C, Varo I, Navarro JC, **Arun S**, Porte C. Antioxidant enzyme activities and lipid peroxidation in the freshwater cladoceran *Daphnia magna* exposed to redox cycling compounds. **Comp Biochem Physiol C Toxicol Pharmacol**. 2005 Feb;140(2):175-86. Epub 2005 Feb 24. [IF-2.5]
6. Barata C, Navarro JC, Varo I, Riva MC, **Arun S**, Porte C. Changes in antioxidant enzyme activities, fatty acid composition and lipid peroxidation in *Daphnia magna* during the aging process. **Comp Biochem Physiol B Biochem Mol Biol**. 2005 Jan;140(1):81-90. [IF-1.6]

7. Barata C, **Solayan A**, Porte C. Role of B-esterases in assessing toxicity of organophosphorus (chlorpyrifos, malathion) and carbamate (carbofuran) pesticides to *Daphnia magna*. **Aquat Toxicol.** 2004 Feb 10;66(2):125-39. **[IF- 3.557]**
8. **Arun S**, Thirumurugan R, Visakan R, Balamurugan S, Arunachalam V, Subramanian P. Optimal analytical conditions for catalase in fresh water prawn, *Macrobrachium malcolmsonii*. **Biotech Histochem.** 2003 Feb;78(1):1-4 **[IF- 1.078]**.
9. **S.Arun**, R.Thirumurugan and P.Subramanian. Enzymatic defense mechanism to oxygen toxicity in freshwater prawn *M.malcolmsonii* and *M.lamarrei lamarrei*. **Indian Journal of Environmental Sciences**, 2002, 6(2):125-130
10. **S.Arun** et al. Toxicity induced biochemical modulations and phase II xenobiotic conjugating enzyme (GST) in *Oreochromis mossambicus*. **Asian Jr. of Microbiol Biotech Environmental Sci** 2000., 2: 225-230.
11. **S. Arun**, P. Krishnamoorthy and P. Subramanian. . Properties of glutathione peroxidase from the hepatopancreas of freshwater prawn, *Macrobrachium malcolmsonii* . **International Journal of Biochemistry and Cell Biology.** 1999 31: 725 – 732 **[IF- 3.905]**.
12. **S. Arun** and P. Subramanian. Antioxidant enzymes activity in subcellular fraction of freshwater prawn *Macrobrachium malcolmsonii* and *Macrobrachium lamarrei lamarrei* . **Applied Biochemistry and Biotechnology.** 1999. 75(2-3): 187-192 **[IF- 1.606]**
13. **S.Arun** and P. Subramanian. Antioxidant enzymes in freshwater prawn *Macrobrachium malcolmsonii* during embryonic and larval development. **Comparative Biochemistry and physiology Part B: Biochemistry and Molecular Biology** 1998 121(B):273-277 **[IF- 1.651]**
14. **S. Arun** and P. Subramanian. . Glutathione s-transferases enzymes in fresh water prawn *Macrobrachium lamarrei lamarrei* during embryonic and larval development. **Current Science.** 1997 73:107-109 **[IF- 0.967]**.
15. P. Krishnamoorthy, **S. Arun** and P. Subramanian. Commercially important meroplankton production and fishery potential in the Gulf of Mannar. **Indian J. Mar. Sci.**,1999 28:216 – 218
16. C. Maruthanayagam, N. Ravi, **S. Arun** and P. Subramanian . Impact on Detergent : Survival and biochemical constituent in freshwater prawn *Macrobrachium lamarrei lamarrei*. **Environ. Ecology.** 1997 15: 79 -82
17. C. Maruthanayagam, **S. Arun** and P. Subramanian . Acute toxicity of synthetic detergent to *Macrobrachium lamarrei lamarrei* : Effect of survival , oxygen consumption and weight loss. **Bulletin of Pure and Applied Sciences.** 1994 13(2): 71 -76

Books/ Chapters / Monographs/Manuals

1. **S.Arun** (2016) Biomonitoring of Coral Bleaching - A Glimpse on Biomarkers for the Early Detection of Oxidative Damages in Corals In "Invertebrates - Experimental Models in Toxicity Screening", (edited by Marcelo L. Larramendy and Sonia Soloneski, **INTECH publishers**. USA
2. **S.Arun** and P. Subramanaian (2011) Ethoxyresorufin -O- deethylase activity in oil effluent exposed prawn. *M.Malcolmsonii*. In An anthology of articles on aquatic research. (edited by P.Subramanian) **Nitheeshpraba Padhippagam**, India Pp 24-30
3. **S.Arun**. (2010) The Aromatic Hydrocarbon Receptor mediated Cytochrome P450 1A induction in aquatic animals: Biomonitoring of organic pollution in Aquatic Environment. In Impact, Monitoring and management of Environmental Pollution. **Nova Science Publishers, Inc-** New York pp 517-535
4. **S.Arun** (2010) Drug metabolism and Detoxification. In Advances in Environmental Biology (edited by G.Tripathi, B.M.Sharma and T.K. Ghosh) **Oxford Book Company**, New Delhi pp184-198
5. **S.Arun** and P.Subramanian (2003) Cytochrome P450 and other biotransformation activity in aquatic organisms: potential biomarkers to environmental pollution. In Potentials of Living Resources (edited by G. Tripathi and A. Kumar). **Discovery Publishers, New Delhi**. pp 459-488
6. **S.Arun** and Subramanian P. (2002) Antioxidant enzymes in aquatic organisms, particularly in freshwater prawn *M.malcolmsoni*. In Bioresource and Environment.(Editor, G.Tripathi and Y.Tripathi) **Campus Books International** , New Delhi., India. pp 341-348.