

Curriculum Vitae

Muthuchamy Maruthupandy

Investigator Post-doc FONDECYT N° 3180128
Department Chemical Engineering, Biotechnology and Materials
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Academic Qualifications

- 2016, Ph. D., (Microbiology), Madurai Kamaraj University, Madurai, Tamil Nadu, India. (Title: Investigation on bacterial nanowires from *Pseudomonas aeruginosa*)
- 2009, M.Sc., (Microbiology), Madurai Kamaraj University, Madurai, Tamil Nadu, India.
- 2007, B.Sc., (Botany), Alagappa University, Karaikudi, Tamil Nadu, India.

Awards/Academic Fellowships Received

- **Investigator Post-doc FONDECYT N° 3180128**, Department Chemical Engineering, Biotechnology and Materials, Faculty of Physical Science and Mathematics (FCFM), University of Chile, Santiago, Chile. Period: March 2018 to Till date.
- **SERB - National Postdoctoral Fellow**, Science Engineering Research Board, New Delhi, India. Period: September 2017 to February 2018.
- **Postdoctoral Fellow**, Natural Science Foundation of Anhui Province, PR China. Period: September 2015 to August 2017.
- **Junior Research Fellow**, Indo-New Zealand Education Council (INZEC), University Grants Commission, New Delhi, India. Period: November 2014 to August 2015.
- **Project Fellow**, University Grants Commission (UGC), New Delhi, India. Period: April 2011 to January 2014.
- **Best Presentation Award - Won the First prize** in National level Seminar (Biogalaxia – 2010), Bharathiar University, Coimbatore, Tamil Nadu, India.
- **University Stipendiary Research Fellow**, Alagappa University, Karaikudi, Tamil Nadu, India. Period: January 2010 to August 2010.

Research Interest

Biological Nanomaterials for Energy, Sensor, Medical and Environmental Applications

- **Microbial Fuel Cells:** Developments of Bio-nanomaterials; Electron Transport in Biological Nanostructures; Oxygen and Hydrogen Reduction Reaction; Alcohols Oxidation Reaction; Bioenergy Production in Microbial Systems.
- **Biosensors:** Design of Bio-Nanocomposite Electrodes; Biological Routes to Nanomaterial Synthesis; Enzymatic Activity of Extracellular Nanostructures; Biomedical Sensor Applications. Bio-polymers/Nano Carriers for Drug Delivery Systems; Nanoparticle Mediated Delivery Systems.
- **Nanomedicine:** Metal and Metal Oxide Nanoparticles, Biopolymer (chitosan and gelatin) and Protein (collagen) are using Antibacterial Activity Against, Human, Fish Pathogens and MDR strains- Anticancer Activity - Lavalcidal Activity.

- **Bioelectronics:** Fabrication of Next Generation Electronic Device from Bacterial Nanowires; Semiconductor Nanoparticles Coated with Bacterial Nanowires Binding Assay.
- **Optical sensor:** Metal Oxide Nanoparticles using Detection of Metal Ions and Biological Molecules.
- **Photocatalytic Activities:** Metal Oxide Nanoparticles Decorated Graphene Nanocomposites using Degradation of Organic and Inorganic Dye Molecules.
- **Environmental Applications:** Nano Remediation: Nano Pollution, Air - Water - Soil Contaminants - Treatment of Industrial Waste Waters using Nanoparticles.

Research Project Experience

- **Investigator Post-doc FONDECYT N° 3180128**, “Synthesis and characterization of graphene/Fe₃O₄/chitosan and graphene/Fe₃O₄/bacterial cellulose nanocomposites for biomedical and photocatalytic applications” Department Chemical Engineering, Biotechnology and Materials, Faculty of Physical Science and Mathematics (FCFM), University of Chile, Santiago, Chile. (March 2018 to Till date).
- **SERB - National Postdoctoral Fellow:** Science Engineering Research Board (SERB) entitled “*Biodegradable collagen covered gold nanoparticles (Collagen/Au NPs) for photothermal therapy*” in Department of Biomedical Engineering, Indian Institute of Technology Hyderabad, Kandi- 520281, Telangana, India (September 2017 to February 2018).
- **Postdoctoral Fellow:** Natural Science Foundation of Anhui Province project scheme entitled “*Preparation of graphene/biomaterials and their application in Electrochemistry*” in School of Chemistry & Chemical Engineering, The Key Laboratory of Environment Friendly Polymer Materials of Anhui Province, Anhui University, Hefei, Anhui 230601, PR China (September 2015 to August 2017).
- **Junior Research Fellow:** University Grant Commission (UGC) sponsored Indo-New Zealand Education Council (INEC) project entitled “*Study on the impacts of climate change induced ocean acidification process on the physiology and calcifying rate of sea urchins between temperate (New Zealand) and tropical (India) species*” in Department of Marine and Coastal Studies, School of Energy Environment and Natural Resources, Madurai Kamaraj University, Madurai (November 2014 to August 2015).
- **Project Fellow:** University Grant Commission (UGC) sponsored Major Research Project entitled “*Synthesis of Chitosan nanoparticle from Marine Organisms in the Gulf of Mannar Region, South India*” in Department of Marine and Coastal Studies, School of Energy Environment and Natural Resources, Madurai Kamaraj University, Madurai (February 2011 to January 2014).
- **University Stipendiary Research Fellow:** University sponsored project entitled “*Developed the biosensor for Bacterial pathogen Detection*” in Center for Nano Science and Nanotechnology, Alagappa University, Karaikudi (January 2010 to August 2010).

Synthesis Techniques

Biological synthesis methods using plants, bacteria, fungi, biopolymers and proteins, Ionic gelation methods, Sol-gel methods, Solution based methods, Solid-state reaction methods, Combustion Synthesis, Solution phase methods, Solvothermal and Polyol method.

Instrument Handled and Characterization

Powder X-ray diffraction (XRD), Transmission electron microscopy (TEM), Scanning electron microscope (SEM) and energy dispersive X-ray analysis (EDX), UV-Visible spectroscopy, Fourier transform infrared spectroscopy (FTIR).

Research Publications

- [27] Graphene-zinc oxide nanocomposite (G-ZnO NCs): synthesis, characterization and their application in photocatalytic degradation of dye molecules

- Maruthupandy, M**, Qin. P, Song. J-M.
Applied Surface Science **2018**, (Under review).
- [26] Synthesis of chitosan nanoparticles by TPP and their potential mosquito larvicidal application
Anand. M, Sathyapriya. P, **Maruthupandy, M**
Frontiers in Laboratory Medicine **2018**, (Accepted).
- [25] Antibacterial effect of endophytic actinomycetes from marine algae against multi drug resistant gram negative bacteria
Rajivgandhi, G, ramachandran, G, **Maruthupandy, M**, Saravanakumar, S, Manoharan, N, Viji, R, *Examines in Marine Biology & Oceanography*, 2018, 1, 1-8.
- [24] Antibiofilm effect of Nocardiosis sp. GRG 1 (KT235640) compound against biofilm forming Gram negative bacteria on UTIs.
Rajivgandhi, G, Vijayan, R, **Maruthupandy, M**, Vaseeharan, B, Manoharan, M,
Microbial Pathogenesis 2018, 118, 190-198.
- [23] Detection of ESBL genes from ciprofloxacin resistant Gram negative bacteria isolated from urinary tract infections (UTIs)
Rajivgandhi, G, **Maruthupandy, M**, Ramachandran, G, Priyanga, M, Manoharan, M,
Frontiers in Laboratory Medicine **2018**, <https://doi.org/10.1016/j.flm.2018.01.001>.
- [22] Antibiofilm activity of zinc oxide nanosheets (ZnO NSs) using Nocardiosis sp. GRG1 against MDR strains of gram negative *Proteus mirabilis* and *Escherichia coli*
Rajivgandhi, G, **Maruthupandy, M***, Muneeswaran, T, Anand, M, Manoharan, N,
Process Biochemistry **2018**, 67, 8-18.
- [21] Synthesis of chitosan mediated silver nanoparticles (Ag NPs) for potential antimicrobial applications.
Kalaivani, R, **Maruthupandy, M**, Muneeswaran, T, Hameedha Beevi A, Anand, M, Ramakritinan, C.M, Kumaraguru, A.K.
Frontiers in Laboratory Medicine **2018**, <https://doi.org/10.1016/j.flm.2018.04.002>
- [20] Preparation and exploration on the electrochemical behavior of nickel oxide nanoparticles coated bacterial nanowires (NiO NPs-BNWs)
Maruthupandy, M, Anand. M, Maduraiveeran. G, Suresh. S, Hameedha. B.A and Jeeva. P.R
Journal of Cluster Science **2018**, 29, 483–492.
- [19] Fabrication of CuO nanoparticles coated bacterial nanowires film for a high performance of electrochemical conductivity
Maruthupandy, M, Anand. M, Maduraiveeran. G, Hameedha. B.A and Jeeva. P.R
Journal of Material Sciences **2017**, 52, 10766–10778.
- [18] Synthesis of metal oxide nanoparticles (CuO and ZnO NPs) via biological template and their optical sensor applications
Maruthupandy, M, Zuo. Y, Chen. J-S, Song. J-M, Niu. H-L, Mao. C-J, Zhang. S-Y, Shen. Y-H
Applied Surface Science **2017**, 397, 167-174.
- [17] Biomarker response of climate change-induced ocean acidification and hypercapnia studies on brachyurian crab *Portunus pelagicus* (Linnaeus 1758)
Jeeva priya. R, Anand. M, **Maruthupandy M**, Hameedha Beevi A
Global journal of environment science and management **2017**, 3, 165-176
- [16] Collagen extract from marine finfish scales as potential mosquito larvicides
Muthumari. M, Anand. M, **Maruthupandy, M**
The Protein Journal **2016**, 35, 391–400.
- [15] Enhanced electrical conductivity of the ZnO nanoparticles-decorated bacterial nanowires
Maruthupandy, M, Anand. M, Maduraiveeran. G, Suresh. S, Hameedha. B.A and Jeeva. P.R
Advances in Natural Sciences: Nanoscience and Nanotechnology **2016**, 7, 045011.

- [14] Biomarker Response of ocean acidification induced hypercapnia on marine bivalve *donax cuneatus*, Linnaeus 1758
Jeeva priya. R, Anand. M, **Maruthupandy M**, Hameedha Beevi A
Journal of Aquaculture and Marine Biology, **2016** 4, 00077
- [13] Antimicrobial potential of chitosan from marine biowastes-a wealth from waste approach
Anand, M, **Maruthupandy, M**, Prasanna Kumar, S, Ravikumar, S, Jeyaraj, N, Kumaran,
Journal of Chitin and Chitosan Science **2016**, 4, 55–58.
- [12] Electrical conductivity measurements of bacterial nanowires from *Pseudomonas aeruginosa*
Maruthupandy. M, Anand. M, Maduraiveeran. G, Hameedha. B.A and Jeeva. P.R
Advances in Natural Sciences: Nanoscience and Nanotechnology **2015**, 6, 045007
- [11] Simplified method for isolation and separation of bacterial nanowires from *Pseudomonas aeruginosa*
Anand. M, **Maruthupandy. M**, Akbar. S.H.B and Priya. R.J
Nanomedicine and Nanobiology **2015**, 2, 43–48.
- [10] Biodiesel production from mixed crued oil of non-edible marine fishes
Anand. M, Gobalakrishnan. M, **Maruthupandy. M** and Suresh. S
Energy and Environment Focus **2015**, 4, 47–53
- [9] Antibacterial activity of the crude extracts of *B. subtilis* from SML
Hameedha. B.A, **Maruthupandy. M**, Priya. R.J and Anand M
International Journal of Pharmaceutical Sciences and Research **2014**, 5, 3692–3695.
- [8] Characterization of metabolites of *Bacillus subtilis* Isolated from sea surface microlayer and its antibacterial activity
Hameedha. B.A, **Maruthupandy. M**, Priya. R.J and Anand. M
International journal of pharmaceutical sciences and health care **2014**, 4, 15–24.
- [7] A simple and modified membrane method to sample bacterioneuston
Anand. M, Akbar. S.H.B, **Maruthupandy. M** and Priya, R.J.
Advanced Science focus **2014**, 2, 86–91.
- [6] Larvicidal activity of chitosan nanoparticles synthesized from crab and squilla species against *Aedes aegypti*
Anand. M, **Maruthupandy. M**, Kalaivani R, Suresh. S, and Kumaraguru, A. K.
Journal of Colloid Science and Biotechnology **2014**, 3, 188–193.
- [5] Extraction and characterization of chitosan from marine crab and squilla collected from the Gulf of Mannar Region, South India
Anand. M., Kalaivani R, **Maruthupandy. M**, Kumaraguru. A. K, and Suresh, S.
Journal of Chitin Chitosan Science **2014**, 2, 280–287.
- [4] Decolorization of textile dye effluent using *bacillus* sp. and *Aspergillus* sp.
Maruthupandy. M, Jerley. A, and Anand, M.
Journal of Pharmaceutical Sciences **2012**, 2, 217–221.
- [3] Biosynthesis of silver nanoparticles by using mangrove plant extract and their potential mosquito larvicidal property
Gnanadesigan. M, Anand. M, Ravikumar. S, **Maruthupandy. M**, Vijayakumar. V, Selvam. S, Dhinesh kumar. M and Kumaraguru, A.K.
Asian Pacific Journal of Tropical Medicine **2011**, 799–803.
- [2] Antibacterial potential of biosynthesised bilver nanoparticles using *avicennia marina* mangrove plant
Gnanadesigan. M, Anand. M, Ravikumar. S, **Maruthupandy. M**, Ali. M.S, Vijayakumar. V and Kumaraguru, A. K.
Applied Nanoscience **2011**, 2, 143–147.
- [1] Impact of heavy metal stress and some physiological response in *Vigna radiate*

Anand. M, Karpakam. L, **Maruthupandy. M**, Palani Kumar. L, and Kumarakuru, A.K. *International Journal of Environment and Earth Sciences* **2011**, 1:2, 39–49.

Book Published

- [3] Associate Editor – Abstract on International conference on Ocean Acidification Research (ICOAR 2015) Conducted by Department of Marine and Coastal Studies, School of Energy Environment and Natural Resources, Madurai Kamaraj University, Madurai held on 15 – 17 December 2015 (ISBN No: 978-93-85477-47-8, Bonfring Publications, Coimbatore - 12, India 2015).
- [2] Associate Editor – Proceeding on International conference on Ocean Acidification Research (ICOAR 2015) Conducted by Department of Marine and Coastal Studies, School of Energy Environment and Natural Resources, Madurai Kamaraj University, Madurai held on 15 – 17 December 2015 (ISBN No: 978-93-85477-85-0, Bonfring Publications, Coimbatore - 12, India 2015).
- [1] Associate Editor – Proceeding on National Workshop on Ocean Acidification Research (NWOAR 2015) Conducted by Department of Marine and Coastal Studies, School of Energy Environment and Natural Resources, Madurai Kamaraj University, Madurai held on 25 – 27 February 2015 (ISBN No: 978-81-7735-818-6, Pavai Publications Chennai- 14, India).

GenBank Submissions

- [12] *Bacillus licheniformis* strain SML-12 16S ribosomal RNA gene, partial sequence. Hameedha Beevi. A, Anand. M, **Maruthupandy. M** and Jeeva Priya. R Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KJ495982**. <http://www.ncbi.nlm.nih.gov/nuccore/KJ495982>. 12 April 2014.
- [11] *Bacillus tequilensis* strain SML-11 16S ribosomal RNA gene, partial sequence. Hameedha Beevi. A, Anand. M, **Maruthupandy. M** and Jeeva Priya. R Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KJ495981**. <http://www.ncbi.nlm.nih.gov/nuccore/KJ495981>. 12 April 2014.
- [10] *Bacillus anthracis* strain SML-10 16S ribosomal RNA gene, partial sequence. Hameedha Beevi. A, Anand. M, **Maruthupandy. M** and Jeeva Priya. R Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KJ495980**. <http://www.ncbi.nlm.nih.gov/nuccore/KJ495980>. 12 April 2014.
- [9] *Bacillus subtilis* strain SML-2 16S ribosomal RNA gene, partial sequence. Hameedha Beevi. A, Anand. M, **Maruthupandy. M** and Jeeva Priya. R Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KC688294**. <http://www.ncbi.nlm.nih.gov/nuccore/KC688294>. 24 April 2013.
- [8] *Bacillus subtilis* strain SML-9 16S ribosomal RNA gene, partial sequence. Anand. M, Hameedha Beevi. A, **Maruthupandy. M** and Jeeva Priya. R Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KC688293**. <http://www.ncbi.nlm.nih.gov/nuccore/KC688293>. 24 April 2013.
- [7] *Pseudomonas plecoglossicida* strain SML-8 16S ribosomal RNA gene, partial sequence. Hameedha Beevi. A, Anand. M, **Maruthupandy. M** and Jeeva Priya. R Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KC688292**. <http://www.ncbi.nlm.nih.gov/nuccore/KC688292>. 24 April 2013.
- [6] *Bacillus subtilis* strain SML-7 16S ribosomal RNA gene, partial sequence.

- Anand. M, Hameedha Beevi. A, **Maruthupandy. M** and Jeeva Priya. R
Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KC688291**.
[http://www.ncbi.nlm.nih.gov/nuccore/ KC688291](http://www.ncbi.nlm.nih.gov/nuccore/KC688291). 24 April 2013.
- [5] *Bacillus aerius* strain SML-6 16S ribosomal RNA gene, partial sequence.
Anand. M, Hameedha Beevi. A, **Maruthupandy. M** and Jeeva Priya. R
Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KC688290**.
[http://www.ncbi.nlm.nih.gov/nuccore/ KC688290](http://www.ncbi.nlm.nih.gov/nuccore/KC688290). 24 April 2013.
- [4] *Bacillus flexus* strain SML-5 16S ribosomal RNA gene, partial sequence.
Hameedha Beevi. A, Anand. M, **Maruthupandy. M** and Jeeva Priya. R
Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KC688289**.
[http://www.ncbi.nlm.nih.gov/nuccore/ KC688289](http://www.ncbi.nlm.nih.gov/nuccore/KC688289). 24 April 2013.
- [3] *Bacillus subtilis* strain SML-4 16S ribosomal RNA gene, partial sequence.
Anand. M, Hameedha Beevi. A, **Maruthupandy. M** and Jeeva Priya. R
Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KC688288**.
[http://www.ncbi.nlm.nih.gov/nuccore/ KC688288](http://www.ncbi.nlm.nih.gov/nuccore/KC688288). 24 April 2013.
- [2] *Bacillus subtilis* strain SML-3 16S ribosomal RNA gene, partial sequence.
Anand. M, Hameedha Beevi. A, **Maruthupandy. M** and Jeeva Priya. R
Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KC688287**.
[http://www.ncbi.nlm.nih.gov/nuccore/ KC688287](http://www.ncbi.nlm.nih.gov/nuccore/KC688287). 24 April 2013.
- [1] *Bacillus subtilis* strain SML-1 16S ribosomal RNA gene, partial sequence.
Hameedha Beevi. A, Anand. M, **Maruthupandy. M** and Jeeva Priya. R
Isolation of bacteria from sea surface microlayer from Palk Bay, India. Madurai Kamaraj University, Palkalai Nagar, Madurai, India. Accession no.: **KC688286**.
[http://www.ncbi.nlm.nih.gov/nuccore/ KC688286](http://www.ncbi.nlm.nih.gov/nuccore/KC688286). 24 April 2013.

Papers Presented in International/National Conferences

- [9] Synthesis and characterization of conductive polymer nanowires.
Maruthupandy. M, Hameedha. A, Priya. J.R, and Anand. M.
Energy Fest '14 Seminar on Advance technologies and Innovation in Energy and Environment, Madurai Kamaraj University, Madurai, 28 March 2014
- [8] Secondary metabolites of bacterioneuston.
Hameedha Beevi. A, **Maruthupandy. M**, Jeeva Priya. R and Anand. M.
Energy Fest' 14: Advanced technologies and innovations in Energy and Environment, Madurai Kamaraj Univeristy, Madurai, Tamil Nadu, India, 28 March 2014.
- [7] A Study on biodiversity of bacterioneuston from Palk Bay, Mandapam.
Hameedha Beevi, A, **Maruthupandy. M**, Jeeva Priya. R and Anand.M.
State level seminar on Biodiversity, Ayya Nadar Janaki Ammal College, Sivakasi, India, February 21, 2014.
- [6] Swarming motility and viscosity of bacterial filaments
Maruthupandy. M and Anand, M.
National Conference on Innovation, Implementations and Controversies of Animal Biotechnology (NCIICAB-2014), Bharathidasan University, 8, 9 January 2014.
- [5] Microbiology of sea surface microlayer from Palk Bay, Mandapam.
Hameedha Beevi. A, **Maruthupandy. M**, Jeeva Priya. R and Anand. M.
National Conference on innovations, implementations and controversies of Animal Biotechnology, Bharathidasan University, Tiruchirapalli, India, March 20 and 21, 2014.
- [4] Production of electricity from microbial fuel cells (mfcs) using metal reducing bacteria

- Maruthupandy, M.** Hameedha. A, Priya. J.R, Kalaivani. R and Anand. M
International Workshop and Conference on “Renewable Energy and Climate Change Exploring Opportunities for Substantial Development” (IWCRECC-2012). Madurai Kamaraj University, Madurai. 10-12 April 2012.
- [3] Self assembled silk sericin/poloxamar nanoparticles as nanocarrier of hydrophobic and hydrophilic drugs for depolymerization of β - tublin in chromosome segregation
Maruthupandy, M. and Anand, M.
International Conference Nanoscience, Nanotechnology and Advance Materials (NANOS- 2010), GITAM University, Visakhapatnam, 17 – 19 December 2010.
- [2] Influence of *Bacillus Sp.* and *Aspergillus Sp.* on decolorization of textile dye effluent
Maruthupandy, M., Jurley. A, and Anand, M.
National Level Seminar (Biogalaxia 2010), Bharathiar University, Coimbatore, 13 October 2010.
- [1] Isolation and characterization of chitosan nanoparticles
Maruthupandy, M., Arumugam, A
International Conference on Nanoscience and Nanotechnology (ICOANN-2010), Alagappa University, Karaikudi, 1- 3 March 2010.

Workshops/Training Programme Participated

- [11] One Day Workshop on Nanomaterials Characterization Techniques: XDR and AFM held on 19 November, 2014. Organized by School of Physics, Madurai Kamaraj University, Madurai, Tamil Nadu.
- [10] National Workshop on ‘Biogeochemistry’ held from 27 & 28 March, 2014. Organized by Department of Environmental Sciences, University of Kerala, Thiruvananthapuram, Kerala.
- [9] National Training Programme on Biodiversity of Marine Molluscs held from 13 & 14 March, 2014. Organized by Centre of Advance Study in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parangipettai, Tamil Nadu.
- [8] Technology Transfer in Nanoscience & Technology Research to Product Awareness Workshop held from 17th to 22nd June, 2013. Organized by Madurai Kamaraj University, Madurai, Tamil Nadu.
- [7] DBT Sponsored Training Programme on Cheminformatics – Tools and Applications held from 19th to 22nd February, 2013. Organized by Bioinformatics Centre, Indian Institute of Spices Research, Kozhikode, Kerala.
- [6] Second International Workshop on Advanced Functional Nanomaterials (SIWAN-2013) held from 28th to 30th January, 2013. Organized by Centre for Nanoscience and Technology and Centre for International Affairs, Anna University, Chennai, Tamil Nadu.
- [5] Workshop on Recent Trends in Materials Research held on 21st and 22nd December, 2012. Organized by Department of Physics, National Institute of Tirichirappalli, Tirichirappalli, Tamil Nadu.
- [4] Short Term Course on “Data Analysis using Software” held from 15th to 20th October, 2012. Organized by UGC Academic Staff College, Madurai Kamaraj University, Madurai, Tamil Nadu.
- [3] Seminar on “Structural Bioinformatics and its Application” held on 7th September, 2011. Organized by School of Biotechnology, Madurai Kamaraj University, Madurai, Tamil Nadu.
- [2] All India Workshop on Research Methodology for Research Scholar held from 04th and 05th August, 2011. Organized by UGC Academic Staff College, Pondicherry University, Pondicherry.
- [1] Workshop on Sequence Analysis and Molecular Simulation held from 10th- 13th March, 2011. Organized by Centre for Biotechnology, Anna University, Chennai, Tamil Nadu.

Conference / Workshop / Awareness Events Organized

- [5] Organizing committee member of International Conference on Ocean Acidification Research (ICOAR- 2015), organized by Department of Marine and Coastal studies, School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai held on 15 – 17 December 2015.
- [4] Organizing committee member in International Coastal Cleanup Day (ICCD-2014) at Seeniappa Dhargha Beach during the awareness programme on cleanliness in the Gulf of Mannar region, Ramanathapuram District held on 20.09.2015.
- [3] Organizing committee member of National Workshop on Ocean Acidification Research (NWOAR- 2015), organized by Department of Marine and Coastal studies, School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai held on 25 – 27 February 2015.
- [2] Team Coordinator in International Coastal Cleanup Day (ICCD-2014) at Seeniappa Dhargha Beach during the awareness programme on cleanliness in the Gulf of Mannar region, Ramanathapuram District held on 19.09.2014.
- [1] Organizing committee member of National Workshop on Ocean Acidification Research (NWOAR- 2012), organized by Department of Marine and Coastal studies, School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai held on 12 – 14 December 2012.

Personal Details

Full Name : M. Maruthupandy
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References

- [1] **Dr. M. Anand**
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- [3] **Prof. S. Ravikumar**
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