

Richard. M

Research Scholar
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PROFILE

- Highly self-motivated Research scholar with demonstrated research expertise in Structural Biology, Computational biology and Molecular Evolution approaches.
- Rich experimental knowledge in Expression, Purification and Crystallization of Proteins.
- Expertise in Molecular Modeling studies on Protein conformational changes, Binding recognition and Allosteric communication analyzes of Protein-DNA complexes.
- Knowledge in Molecular evolution and functional Divergence studies of Transcriptional Regulatory proteins.
- In addition, I have familiar with Protein based Biosensor application to detect the toxic metal ions and free amino acids.

ACADEMIC COMPETENCE

Year of Passing	Degree	University / Institute
2020	Ph. D Scholar	Alagappa University
2014	P.G.D.S.P	Alagappa University
2013	M. Sc. Bioinformatics	Pondicherry University
2011	B. Sc. Biotechnology	Pondicherry University

AWARDS

- Maulana Azad National Fellowship (UGC-MANF) – Senior Research Fellow (2016-2019).
- Maulana Azad National Fellowship (UGC-MANF) – Junior Research Fellow (2014-2016).
- UGC motivation program, Department of Biotechnology, Pondicherry University.
- Secured Second Price in “Best Library user of the Year 2011” in Pondicherry University Community College.

RESEARCH INTEREST

Proposed PhD Topic : Structural and Functional Studies on Transcription Regulatory Proteins from *Thermus thermophilus* HB8 and *Pyrococcus horikoshii* OT3 – *In silico* and *In vitro* studies

Area of Specialization : X-Ray Crystallography, Structural Biology, Molecular Modeling, Phylogenetic Tree Analysis and Computational Chemistry

PUBLICATIONS

- **Richard Mariadasse**, Sanjay Kumar Choubey, Jeyakanthan Jeyaraman, Insights on Exogenous Tryptophan-mediated Allosteric communication and Helical Transition of TRP protein for Transcription Regulation, **Chemical Information and Modeling**. (IF:3.96).
- Kulanthaivel Langeswaran, J Jeyakanthan, **Richard Mariadasse**, Saravanan Soorangkattan. Insights from the Molecular modeling, docking analysis of illicit drugs and Bomb Compounds with Honey Bee Odorant Binding Proteins (OBPs), **Bioinformatics**, 14(5); 219-231, 2018 (IF: 0.7).
- M. Maniyazagan, **R. Mariadasse**, M. Nachiappan, J. Jeyakanthan, N.K. Lokanath, S. Naveen, G. Sivaraman, P. Muthuraja, P. Manisankar, T. Stalin, Synthesis of rhodamine based organic nanorods for efficient chemosensor probe for Al (III) ions and its biological applications, **Sensors and Actuators B: Chemical**, 254, 795-804, 2018. (IF: 5.40).
- M. Maniyazagan, C. Rameshwaran, **R. Mariadasse**, J. Jeyakanthan, K. Premkumar, T. Stalin, Fluorescence sensor for Hg²⁺ and Fe³⁺ ions using 3,3'-dihydroxybenzidine: α -cyclodextrin supramolecular complex: characterization, *in-silico* and cell imaging study, **Sensors and Actuators B: Chemical**. DOI No: 10.1016/j.snb.2016.09.093. (IF: 5.40).
- M. Maniyazagan, **R. Mariadasse**, J. Jeyakanthan, N. K. Lokanath, S. Naveen, K. Premkumar, P. Muthuraja, P. Manisankar, T. Stalin, A "turn-on" rhodamine based molecular switch for cadmium and sulfide ion detection via an FRET-based sensor: Crystal structure, *in silico* and live cell imaging study, **Sensors and Actuators B: Chemical**, 238 (2017) 565-577. (IF: 5.40).

- Sanjay K. Choubey, **Richard Mariadasse**, Santhosh Rajendran, Jeyaraman Jeyakanthan. Identification of novel histone deacetylase 1 inhibitors by combined pharmacophore modeling, 3D-QSAR analysis, in silico screening and Density Functional Theory (DFT) approaches. *J Mol Struct.*, 1125, 391-404, 2016. **(IF: 1.60)**
- Kanagarajan Surekha, Damodharan Prabhu, **Mariadasse Richard**, Mutharasappan Nachiappan, Jayashree Biswal, **Jeyaraman Jeyakanthan**. Investigation of vital pathogenic target orotate phosphoribosyltransferases (OPRTase) from *Thermus thermophilus* HB8: Phylogenetic and molecular modeling approach. *Gene*. 583(2). PP: 102-111. 2016. **(IF:2.31)**
- **Mariadasse Richard**, Jayashree Biswal, Jayaprakash Prajisha, Guru Raj Rao, Sanjay Kumar Choubey, Rajendran Santhosh and Jeyaraman Jeyakanthan. Mechanical insights of Oxythiamine compound as potent inhibitor for Human Transketolase like protein 1 (TKTL1 protein). *Journal of Receptors and Signal Transduction*, 36(3). pp: 233-42. 2016. **(IF:2.21)**

SMALL MOLECULE DEPOSITIONS

Cambridge Crystallographic Data

- CCDC 1440775
- CCDC 1440774
- CCDC 1440691
- CCDC 1440773
- CCDC 1440690
- CCDC 1440689
- CCDC 1440692

NCBI SEQUENCE SUBMISSIONS

- Jeyakanthan, J., Mohan Rasu, Boobalan, T., Dinesh, G.H., **Mariadasse, R.**, Suresh Lingam, T. and Arun, A. *Psathyrella candolleana*. isolate JJAA2 (2016) internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. LOCUS KX022943, 681 bp DNA linear BCT 26-APR- 2016. *Klebsiella pneumoniae*: AATB2_KY465496.

- Jeyakanthan, J., Mohan Rasu, Boobalan, T., Dinesh, G.H., **Mariadasse, R.**, Suresh Lingam, T. and Arun, A. Coprinus sterquilinus. isolate JJAA3 (2016) internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. LOCUS KX022944, 637 bp DNA linear BCT 26-APR- 2016.
- Jeyakanthan, J., Mohan Rasu, Boobalan, T., Dinesh, G.H., **Mariadasse, R.**, Suresh Lingam, T. and Arun, A. Psathyrella candolleana. Isolate JJAA2 (2016) internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. LOCUS KX022943, 681 bp DNA linear BCT 16-JUL- 2016.

TECHNICAL DETAILS

SOFTWARE PACKAGES

- CCP4i Software suite, Gromacs software (Molecular Dynamics Simulation), Schrodinger Software Suite, AutoDock, Modeller 11, Mega.10, Diverge.3, JCoDA Software, WinGx (ShelxS and ShelxL).

BIOLOGICAL TECHNIQUES

- Plasmid DNA isolation, PCR, Protein Purification (FPLC), Surface Plasmon Resonance (BiaCore), Fluorescence Spectrometer, Crystallization and Western Blotting etc.,

POSTER PRESENTED AND CONFERENCE ATTENDED

- International Conference on "Recent Trends in Structural Bioinformatics and Computer Aided Drug Design" [ICSBCADD'2019] 11th - 13th December, 2019
- Indo-Italian Elettra Beamline User Meeting/Workshop and Outreach Program held at AIIMS New Delhi- 110029 on November 11-12, 2019.
- 11th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2019), Feb. 12th – 16rd, 2019, Alagappa University, Karaikudi, Tamil Nadu, India.
- 10th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2018), Feb. 20th – 23rd, 2018, Alagappa University, Karaikudi, Tamil Nadu, India.
- 9th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2017), Feb. 14th – 17th,

2017, Alagappa University, Karaikudi, Tamil Nadu, India.

- 8th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2016), Feb. 16th – 19th, 2016, Alagappa University, Karaikudi, Tamil Nadu, India.
- 7th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2015), Feb. 24th – 27th, 2015, Alagappa University, Karaikudi, Tamil Nadu, India.
- 6th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2014), Feb. 18th – 21st, 2014, Alagappa University, Karaikudi, Tamil Nadu, India.
- 5th National Symposium cum Workshop on Recent Trends in Structural Bioinformatics and Computer Aided Drug Design (SBCADD'2013), Feb. 19th–22rd, 2013, Alagappa University, Karaikudi, Tamil Nadu, India.
- National seminar cum workshop on “Drug Discovery and translation research” Sponsored by DBT & UGC February 14-15,2013-03-15
- National seminar cum workshop on “Perspective of Chemoinformatics for drug Discovery” sponsored by Pondicherry University, February 21-22, 2013
- Indian science congress association, Pondicherry Chapter& Pondicherry University, SCIENCE FOR SHAPING THE FUTURE OF INDIA March 15-16, 2013.
- National Seminar on “emerging trends in structural biology and bioinformatics”, September 26-28, 2012 conducted by Centre for Bioinformatics, Pondicherry University.
- National seminar cum Workshop on Drug Design and its industrial application”, March 7-9, 2012 Sponsored by DBT and conducted by Center for Bioinformatics, Pondicherry University.
- National Seminar on “Current Trends in Genomics & Proteomics”, September 21-23, 2011 Conducted by Centre for Bioinformatics, Pondicherry University.

MEMBERSHIP IN SCIENTIFIC SOCIETIES

- Life Member in **Bioinformatics and Drug Discovery Society (BIDDS)**

PERSONAL DETAILS

Father Name : Mariadasse S
Mother Name : Aroquiamary Mars
Date of Birth : 20-08-1991

REFERENCE

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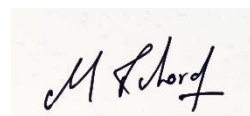
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DECLARATION

I hereby declare that the above mentioned details are genuine and of my own concern.



Place: Karaikudi

(Richard. M)