

Dr. P.PRIYADARSHINI

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Chennai – 600131
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Email: mail2priyaaravind@gmail.com

Nationality : Indian
Date of birth : 19th March 1987
Gender : Female
Employment status : Fulltime
Marital status : Married

CAREER MOTIVATION:

To evolve into a hardworking and sincere profession, contributing to the success of organization and at the same time enhance my knowledge and develop my communication, managerial and interpersonal skills.

ACADEMIC QUALIFICATION:

Ph.D. Marine Biotechnology	CAS in Marine Biology, Annamalai University, Portnova	January 2015	Degree awarded
M.Phil. Plant Biology & Plant Biotechnology	Ethiraj college, Chennai	October 2010	D+ I class with distinction
M.Sc. Biotechnology	SASTRA University, Thanjavur	May 2009	8.5 CGPA I class with distinction
B.Sc. Biotechnology	Thiagarajar college, Madurai	April 2007	80% I class with distinction
H.S.C.,	Annai Theresa govt. Girls HSS, Karaikal	March 2004	84%
S.S.L.C	Nirmala ranee girls HSS, Karaikal	March 2002	87%

EXPERIENCE:

Position	Institution	Duration
Junior Research Fellow (JRF)	CAS in Marine Biology, Annamalai University, Parangipettai, INDIA	April 2011 - March 2013
Senior Research Fellow (SRF)	CAS in Marine Biology, Annamalai University, Parangipettai, INDIA	April 2013 – January 2015
Assistant Professor	PG & Research Department of Biotechnology, Mohamed Sathak College of Arts and Science, Chennai.	October 2021- Till Date

RESEARCH PROJECT

- **Ph.D. project:** “Isolation, molecular characterization and immunity enhancement of the probiotic, *Bacillus subtilis* PRBD09 against *Aeromonas hydrophila* in the mullet fish, *Mugil cephalus* (Linnaeus, 1758) and the proteomic analysis of its extra cellular proteins”
M.Phil. project: “Microbial diversity in the soil collected from the Government Museum – Chennai”
Duration: October 2009 – October 2010
- **M.Sc. project:** “PCR detection of Haemolysin gene in *Aeromonas hydrophila* isolated from clinical samples”
Duration: May 2008 – May 2009

HONOURS AND AWARDS

- Secured **first** rank in **Molecular Genetics** in the first semester University examination held in SASTRA University on April 2007.
- Secured **second** in **Cell Biology** in the first semester University examination held in SASTRA University on April 2007.

LABORATORY SKILLS:

Molecular Biology Techniques

Plant tissue culture

Immunodiagnostic Methodologies

Microbiology

Chromatography

Spectroscopic techniques

AREA OF INTEREST:

Genetic Engineering

Pharmaceutical Biotechnology

Molecular Biology

Immunology

Bacteriology

PCR based techniques

RESEARCH PUBLICATIONS:

- Rajasekar Thirunavukkarasu, **Priyadarshini Pandi**, Deivasigamani Balaraman, “Influence of extracellular protein isolated from fish gut associated bacteria as an enhancer of growth and innate

immune system in *Mugil cephalus*", Scientific reports , Nature, February 2022 , 12(1):3217.
DOI:[10.1038/s41598-022-05779-7](https://doi.org/10.1038/s41598-022-05779-7)

- Rajasekar Thiurunavukkarau, Sabarika Shanmugam, Kumaran Subramanian, Priyadarshini Pandi, Gangatharan Muralitharan, Maryshmya Arokiarajan, "Silver nanoparticles synthesized from the seaweed *Sargassum polycystum* and screening for their biological potential, S Scientific reports , Nature, August 2022 , (2022) 12:14757 | <https://doi.org/10.1038/s41598-022-18379-2>
- **Priyadarshini Pandi**, B. Deivasigamani, T.Rajasekar, Edward Gnana Jothi. G, Kumaran. S, Sakthivel. M and Balamurugan, "Probiotics in Aquaculture", Drug Invention Today, Elsevier, (2013), 5, 55-59.
- **Priyadarshini Pandi**, Rajasekar Thirunavukkarasu, Edward Gnana Jothi George, Deivasigamani Balaraman, "Microbial gut flora of marine fish *mugil cephalus*(striped mullet) from Vellar estuary, east coast region, Tamilnadu,India, International Journal of Future Biotechnology (2013), 2(2), 1-4. 4. ISSN 2319 - 1031.
- Rajasekar Thirunavukkarasu, **Priyadarshini P**, Deivasigamani Balaraman; Ilamathi Jayaraman; KumaranSubaramaniyan; Edward Gnana Jothi George, "Enhancements of non- specific immune response in *Mugil cephalus* by seaweed extract against *Vibrio alginolyticus* (BRTR07), Journal of Coastal Life Medicine, Volume3, Number 10, 2015, pp.776-786(11)DOI: <https://doi.org/10.12980/jclm.3.2015j5-46>.
- Rajasekar Thirunavukkarasu, **Priyadharshini .P**, Kumaran Subaramaniyan, Deivasigamani Balaraman*,Sakthivel Manikkam, Balamurugan Sadaiyappan, George Edward Gnana Jothi, Screening of marine seaweeds for bioactive compound against fish pathogenic bacteria and active fraction analysed by gas chromatography-mass spectrometry, Journal of Coastal Life Medicine, 2014; 2(5): 367-375.
- Rajasekar Thirunavukkarasu, **Priyadharshini .P**. Deivasigamani, Balaraman Kumaran Subaramaniyan,George Edward. Gnana Jothi, Sakthivel Manikkam, Balamurugan Sadaiyappan, Isolation of bioactive compound from marine seaweeds against fish pathogenic bacteria *Vibrio alginolyticus* (VA09) and characterisation by FTIR, Journal of Coastal Life Medicine 2013;1(1): 6-13.G.
- Edward Gnana Jothi, B. Deivasigamani, **P. Priyadarshini**, T. Rajasekar, and S.Balamurugan, "Haemolytic and antimicrobial efficacy of the epidermal mucus of the striped dwarf catfish, *Mystus vittatus*(Bloch 1794) from Vellar estuary, Parangipettai". *Inventi Rapid: Pharm. Biotech & Microbio*. Vol. 2014, Issue 1. [ISSN 2278-4098].
- G. Edward Gnana Jothi, B. Deivasigamani, **P. Priyadarshini**, S. Kumaran, S. Balamurugan, T. Rajasekarand M. Sakthivel, "Immune response against *Aeromonas hydrophila* in estuarine catfish (*Mystus gulio*, Hamilton 1822) of Kollidam estuary: An assessment on non-specific immune parameters", *Int. J. Future Biotechnology*, 2(1), 1-7. (2013). ISSN 2319-1031

- Subramanian Kumaran*, Balaraman Deivasigamani*, **P. Priyadharshini**, Thirunavukkarasu Rajasekar, Sadaippan Balamurugan and George Edward Gnana Jothi Biotechnological applications of keratin-degrading Bacillus sp. and recycling poultry Feathers as immunostimulants. Bhamathi Microbiology NewsLetter , 2013,3(1),03-08
- T. Rajasekar, B. Deivasigamani, S. Kumaran, M. Sakthivel, S. Balamurugan, G. Edward Gnana Jothi and **P.Priyadharshini**, "Antibacterial Activity of Cultivated Marine Seaweeds against Fish pathogenic bacteria Vibrio harvey.", Asian Pac. J. Trop. Biomed. (2012)1-5.
- Sadiyappan Balamurugan, Balaraman Deivasigamani* , Sangaralingam Kumaran, Manikam Sakthivel, Thirunavukkarsu Rajsekar, Pandiyan Priyadharsini, "Melanomacrophage centers aggregation in P. lineatus spleen as bioindicator of environmental change .", Asian pacific journal of tropical disease(2012) S635-638.
- Deivasigamani, S. Kumaran, M. Sakthivel, M. Balamurugan, G. Edward Gnana Jothi and P. Priyadarshini, "Non-specific immune parameters and resistance to Aeromonas Hydrophila infection in the Asian dwarf catfish (Mystus vittatus. Bloch 1974)". Theriogenology Insight, 1(2), June 2012, 70-83 (OnlineISSN: 2277-3371).

BOOKS PUBLISHED:

- Rajasekar Thirunavukkarasu, **Priyadarshini Pandi** Kumaran Subramanian and Jerrine Joseph, "Quorum sensing relationship analysis of microbial symbionts" October 2022 DOI:[10.1016/B978-0-323-99334-0.00031-1](https://doi.org/10.1016/B978-0-323-99334-0.00031-1), ISBN: 9780323993340.
- Rajasekar Thirunavukkarasu, Sujith Pushparaj, Mary Shamy, **Priyadarshini Pandi**, Kumaran Subramanian and Jerrine Joseph, Microbial symbionts from Algae, October 2022, DOI:[10.1016/B978-0-323-99334-0.00050-5](https://doi.org/10.1016/B978-0-323-99334-0.00050-5).
- B. Deivasigamani, G. Edward Gnana Jothi and P. Priyadarshini, "Marine fish and Shell fish. Immunology", LAP Lambert Academic Publishing, ISBN 978-3-8484-8461-4.

GENBANK SUBMISSIONS:

Bacterial sequences submitted in NCBI: 25

(Accession numbers: KF746589, KF751879, KF751880, KF751881, KF751882, KF765648, KF765649, JQ580957, JQ580955, JQ580958, JQ580956, JQ580954, JX625987, JX625988, JX625989, JX625990, JX625991, JX625992, JX625993, JX625994, JX625995, JX625996, JX625997, JX625998, JX625999)

WORKSHOP AND CONFERENCE PARTICIPATED:

- Workshop on "**Molecular techniques**" held at Life Teck Research Center, Chennai from 15-05-2008 to 22-05-2008.

- AICTE sponsored training program on, “**Advances in Modern Immunotechnology and Research**” held on 5th – 18th July 2011 at Karunya University, Coimbatore.
- National Workshop on, “**Immuno-informatics**”, held on 21st September 2011 at Karpaga Vinayaga College of Engineering and Technology, Maduranthagam.
- National conference on “**Aquatic biotoxins-20011**”, held on 14th -16th September 2011 at CAS in Marine Biology, Parangipettai.
- National Workshop on “**Marine fish Immunology and Immunotechnology**”, held on 01st – 08th December 2011 at Centre for Advanced Studies in Marine Biology, Annamalai University, Parangipettai.
- National conference on “**Environmental, Biodiversity and Bioethics- Current trends and Future Perspectives**” held on 23rd -24th March 2012 at Annamalai University, Annamalai Nagar.
- National conference on “**Aquatic Animal Health and Management- 2012**”, held on 14th -15th September 2012 at CAS in Marine Biology, Parangipettai.
- 2nd National Workshop on “**Marine fish and Shell fish Immunology and Immunotechnology**”, held on 09th – 14th July 2012 at Centre for Advanced Studies in Marine Biology, Annamalai University, Parangipettai.
- National conference on “**Aquatic Frontiers in Biotechnology**”, held on 6th -7th February 2013 at SRM University.
- National seminar on “**Emerging trends in Microbial Biotechnology**” held on 20th – 21st February 2013 at Kanchi Sri Krishna College of Arts and Science, Kanchipuram.
- National Workshop on “**Advanced techniques in fish Immunology and Immunotechnology**”, held on 05th – 09th September 2013 at Centre for Advanced Studies in Marine Biology, Annamalai University, Parangipettai.
- 2nd IIT Madras- Tokyo Tech Joint Symposium on “**Techniques and Applications of Bioinformatics**”, held on 27th – 28th September 2013 at IIT, Chennai.
- National Workshop on “**Recent techniques in Marine fish Immunology**”, held on 01st – 02nd March 2014 at Centre for Advanced Studies in Marine Biology, Annamalai University, Parangipettai.
- Awareness Programme on “**Employment Prospects and Avenues for Entrepreneurship in Marine Sciences**”, held on 3rd - 4th March 2014 at Centre for Advanced Studies in Marine Biology, Annamalai University, Parangipettai.
- National webinar on “Career opportunities in clinical research and pharmacovigilance” held on 07/08/2020 organized by the Guru Nanak Centre for Research (GNCR), Guru Nanak College (Autonomous), Guru Nanak Salai, Velachery, Chennai - 42.
- Webinar on “Nanoparticles for Biomedical Application”, organized by Centre for Drug Discovery and Development, Sathyabama Institute of Science and Technology on 23/07/2020.
- National e-Conference on **Bioprospecting of Marine derived metabolites for promising biotechnology applications: Current and future prospects (BMDM-2021)** Date: 29th to 31st December, 2021 at Centre of Drug Discovery, Sathyabama University, Chennai.

- Seminar on **“Intellectual Property Rights”** at Mohamed Sathak College of Arts and Science, Shollinganallur, Chennai, on 18th December 2021.
- Faculty Development Program on **“Research Methodology”** at Mohamed Sathak College of Arts and Science, Shollinganallur, Chennai, on 22nd December 2021.
- National Level Faculty Development Program on **“Investor Education”** at Mohamed Sathak College of Arts and Science, Shollinganallur, Chennai, on 6th September 2022.
- International Symposium on **“Recent Trends in Macromolecular Structure and function, Marine Biotechnology and Bioinformatics (ISRTMSF 2022)** at AMET University, Chennai on October 6-9th , 2022.

DECLARATION

I hereby declare that the information's furnished above are true to the best of my knowledge and belief.

Station: Chennai

(P.PRIYADARSHINI)