



# DR. S. KALAIVANI PRIYADARSHINI

ASSOCIATE PROFESSOR,  
DEPARTMENT OF BIOTECHNOLOGY,  
LADY DOAK COLLEGE

## CONTACT

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Plot No:3, Sai Illam,  
S.V.P Nagar 5th Street,  
S. Alangulam, Madurai -17

## PROFESSIONAL SUMMARY

Biology professional with over 12 years of experience in teaching and research at the college level. Skilled in fish immunological techniques, animal handling, experimental research design, and data analysis. Proven ability to integrate research with real-world applications, with a strong commitment to translating scientific knowledge into solutions for societal benefit. Passionate about mentoring students and fostering innovation in biological sciences.

## EDUCATION

### 2020

Ph.D Zoology (2020), Madurai Kamaraj University, Tamil Nadu, India  
Thesis Title: Studies on the immune responses of the striped murrel, *Channa Striata* (Bloch)

### 2012

Qualified State level Eligibility Test (SET) for lectureship in 2012

### 2006-2007

M.Phil Zoology (Spl. in Biotechnology) (78%, 2007),  
Lady Doak College, Madurai Kamaraj University, Tamil Nadu, India

### 2004-2006

M.Sc., Zoology (Spl. in Biotechnology) (74%, 2006),  
Lady Doak College, Madurai Kamaraj University, Tamil Nadu, India

### 2001-2004

B.Sc., Zoology (Spl. in Biotechnology) (77%, 2004),  
Lady Doak College, Madurai Kamaraj University, Tamil Nadu, India

## WORK EXPERIENCE

- Associate Professor in Biotechnology, Lady Doak College, Madurai, 5 months (1.12.2024 till date)
- Assistant Professor in Biotechnology, Lady Doak College, Madurai, 10 years (1.06.2012 to 30.11.2024)
- Assistant Professor in Biotechnology, Lady Doak College, Madurai, 8 months (1.06.2012 to 1.12.2014)
- Assistant Professor in Biotechnology, Sri Kaliswari College, Sivakasi, 4 months (05-12 2007 to 03 2008)

## FIELD OF SPECIALIZATION

- Fish Immunology
- Cell Biology
- Phytochemical analysis
- Bioinformatics and
- Environmental Biology

## SKILLS

- Fish Immunological techniques
- Animal Handling & Cell Culture
- Data Analysis and Interpretation (using tools like Excel & Sigmaplot)
- Curriculum Design and Development
- Student-Centered and Experiential Teaching
- Laboratory Instruction and Safety Management
- Academic Mentoring and Advising

## LANGUAGES

- English
- Tamil

## AWARDS

- Recipient of Outstanding Research Award [In Recognition of Progressive Research in Life Sciences at Lady Doak College] at Lady Doak College (2022).
- Won **Session's best paper presentation award** Universitas Muhammadiyah Malang, Indonesia and Uva Wellassa University, Sri Lanka and organized by The International Institute of Knowledge Management (TIKIM), Sri Lanka. (2017).
- Recipient of UGC minor Research Project grant entitled "Stimulation of innate immune response gene(s) expression and disease resistance by administration of sulphated polysaccharide derived from a marine macroalga in the selected freshwater food fish" for a sum of Rs.4, 50, 000. MRP-6927/16 (SERO/UGC). Completed (2017-2019)
- Won **3rd Best paper presentation award** for oral presentation on the title "Wastewater-based epidemiology (WBE) approaches for detection of SARS-CoV-2 in the Covid-19 pandemic: A concise review analysis Vignan's Foundation for Science Technology and Research (Deemed to be University), Vadlamudi, Guntur-522213, Andhra Pradesh. (2020).
- Recipient of Junior Research fellowship titled "Studies on the immune responses of the striped murrels *Channa striata* (Bloch)Rs. 23 Lakhs Department of Science and Technology (DST). (2008-2011).
- Recipient of Certificate of Honours [In recognition of consistent and creditable performance in academic and co-curricular activities of college during Under graduation study] at Lady Doak College. (2004)
- Certificate of academic achievement Proficiency certificate in major lab and electives] at Lady Doak College. (2004).



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## BOOK CHAPTER PUBLICATIONS

- Subramani, P. A., **Priyadarshini, S. K.**, Balasubramanian, R., Gnaneswari, M. D., Kumar, D. G., Rajendran, P., ... & Michael, R. D. (2023). Current Status and Recent Advancements with Immunostimulants in Aquaculture. Immunomodulators in Aquaculture and Fish Health, 233-262. CRC Press, ISBN:9781032407388, DOI: 10.1201/9781003361183-19
- Chakraborty, M. Bhattacharjee S. & **Priyadarshini, S. K.**, Biodiversity and Conservation (Chapter 4), Learner-Centered Instruction Manual for Environmental Education, Centre for Environmental studies, Lady Doak College, ISBN:9788192173115

## JOURNAL PUBLICATIONS

- **Priyadarshini, S. K.**, Murugesan, M., Michael, R. D., Subramani, P. A., & Rajendran, P. (2023). Oral administration of terpenoids and phenol fraction of *Padina gymnospora* stimulates the nonspecific immune response and expression of immune genes, and protects the common carp (*Cyprinus carpio*) from experimental *Aeromonas hydrophila* infection. *Fish & Shellfish Immunology*, 142, 109141. Impact Factor: 4.7, ISSN: 1095-9947
- **Priyadarshini, S. K.**, Parasuraman, A. S., & Rajamani, D. M. (2017). Modulation of the innate immune responses in the striped snakehead murrel, *Channa striata* upon experimental infection with live and heat killed *Aeromonas hydrophila*. *Open Veterinary Journal*, 7(2), 157-164. Impact Factor: 0.9, ISSN: 2226-4485, doi:10.1016/j.fsi.2015.11.006
- Rajeswari, V., **Priyadarshini, S. K.**, Saranya, V., Suguna, P., & Shenbagarathai, R. (2016). Immunostimulation by phospholipopeptide biosurfactant from *Staphylococcus hominis* in *Oreochromis mossambicus*. *Fish & shellfish immunology*, 48, 244-253. Impact Factor: 3.025, ISSN :10959947.doi: 10.4314/ovj.v7i2.13
- Michael, R. D., & **Priyadarshini, S. K.** (2012). A reliable method for repetitive bleeding in striped murrel, *Channa striata* (Bloch). *Aquaculture Research*, 43(11), 1738.ISSN:1365-2109. doi:10.1111/j.1365-2109.2011.02987.x

## PATENT PUBLICATION

- Michael, R.D. & Priyadarshini, S.K. (2015). Sea weed-derived immunostimulant for protecting murels (Snake head fish) and other culture fishes from diseases. Patent application no: 4022/CHE/2015, The Patent Office Journal.47964

## GRANTS RECEIVED

S.No.	Title of the Project	Period of Project	Funding Agency	Funds allotted (Rs)
1	Minor Research Project grant "Stimulation of innate immune response gene(s) expression and disease resistance by administration of sulfated polysaccharide derived from a marine macroalga in the selected freshwater food fish"	2017-2019	University Grants Commission	4.5 Lakhs
2	Served as Junior Research fellow titled "Studies on the immune responses of the striped murels <i>Channa striata</i> (Bloch)"	2008 -2011	Department of Science and Technology (DST)	25 Lakhs
3	Seed Grant - "Comparative Evaluation of Resveratrol and Hesperidin as Neuroprotective Agent for Treating Alzheimer's Disease"	2023-2024	Lady Doak College	50,000



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## CONFERENCE PRESENTED

- M. Poornima and **S. Kalaivani Priyadarshini** (2020). “Wastewater-based epidemiology (WBE) approaches for detection of SARS-CoV-2 in the Covid-19 pandemic: A concise review analysis”. Presented at the International e-Conference on Recent Trends in Drug Discovery, Diagnostics, and Therapeutics: A Special Emphasis on COVID-19, held on 2<sup>nd</sup>–4<sup>th</sup> July 2020, organized by Vignan's Foundation for Science, Technology, and Research (Deemed to be University), Vadlamudi, Guntur, Andhra Pradesh, India. **Awarded 3rd Best Paper Presentation** (Oral Presentation).
- **S. Kalaivani Priyadarshini** and R. Dinakaran Michael (2018). “Immunostimulatory and disease resistance potential of *Sargassum myriocystum* methanol extract on the striped murrel, *Channa striata* (Bloch)”. Presented at the International Conference on Facing the Global Fisheries and Aquaculture Challenges, hosted by Universitas Muhammadiyah Malang, Indonesia, and Uva Wellassa University, Sri Lanka, organized by The International Institute of Knowledge Management (TIKM), Sri Lanka. Received the **Session's Best Paper Presentation Award**.
- **S. Kalaivani Priyadarshini** and R. Dinakaran Michael (2011). “Inducible nonspecific immune responses in striped murrel, *Channa striata*”. Presented at the 8th Symposium on Diseases in Asian Aquaculture, held on 21<sup>st</sup>–25<sup>th</sup> November 2011, organized by the Fish Health Section, Asian Fisheries Society, and the College of Fisheries, Karnataka University of Animal and Fisheries Sciences, Mangalore, India.
- **S. Kalaivani Priyadarshini** and R. Dinakaran Michael (2011). “Enhancement of non-specific immune response and disease protective properties of Phaeophycean macroalga (CFI-MA 01) in *Oreochromis mossambicus* (PETERS)”. Presented at the National Workshop on Recent Advances in Fish Vaccines and Prophylactics, held on 14<sup>th</sup>–15<sup>th</sup> February 2011, organized by the Fisheries College and Research Institute, Tamil Nadu Veterinary and Animal Sciences University, Thoothukudi, India.
- **S. Kalaivani Priyadarshini** and R. Dinakaran Michael (2011). “Inducible non-specific immune responses in *Channa striata* (Bloch)”. Presented at the National Workshop on Recent Advances in Fish Vaccines and Prophylactics, held on 14<sup>th</sup>–15<sup>th</sup> February 2011, organized by the Fisheries College and Research Institute, Tamil Nadu Veterinary and Animal Sciences University, Thoothukudi, India.
- **S. Kalaivani Priyadarshini** and R. Dinakaran Michael (2010). “Evaluation of non-specific immune mechanisms in *Channa striatus* (Bloch) on experimental infection with live and killed *Aeromonas hydrophila*”. Presented at the Science Day and Aqua-Terr 41st Annual Conference on Organismal and Functional Genomics, held on 6th March 2010, organized by the School of Biological Sciences, Madurai Kamaraj University, Madurai, India.
- B. Ramalakshmi, **S. Kalaivani Priyadarshini**, and R. Dinakaran Michael (2010). “Rhythmicity in non-specific immune mechanisms of *Channa striatus* (Bloch)”. Presented at the Science Day and Aqua-Terr 41st Annual Conference on Organismal and Functional Genomics, held on 6<sup>th</sup> March 2010, organized by the School of Biological Sciences, Madurai Kamaraj University, Madurai, India.
- M. Vikram Sivasakthi, **S. Kalaivani Priyadarshini**, and R. Dinakaran Michael (2010). “Immune enhancement by methanol extract of a marine macroalga (CFI-MA 01) in spotted murrel, *Channa punctatus*”. Presented at the Second National Conference on Bioprospecting of Marine Resources with Special Reference to Marine Natural Products and Drug Discovery, held on 25<sup>th</sup>–27<sup>th</sup> August 2010, organized by the School of Marine Sciences, Department of Oceanography and Coastal Area Studies, Alagappa University, Thondi Campus, Ramanathapuram, India.
- **S. Kalaivani Priyadarshini** and R. Dinakaran Michael (2009). “Enhancement of non-specific immune response and disease protective properties of Phaeophycean macroalga (CFI-MA 01) in *Oreochromis mossambicus* (PETERS)”. Presented at the Science Day and Aqua-Terr 41st Annual Conference on Organismal and Functional Genomics, held on 6<sup>th</sup> March 2009, organized by the School of Biological Sciences, Madurai Kamaraj University, Madurai, India.



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### **WORKSHOPS AND TRAINING PROGRAMS ATTENDED**

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- National Level Workshop on Techniques in Animal Cell Culture  
Organized by the Department of Biotechnology, Lady Doak College, Madurai-625002, from 22nd to 26th February 2010. Sponsored by the Department of Science and Technology (DST), New Delhi.
- Winter School on Biotechnological Advances in Fish Disease Diagnosis and Health Management Organized by the Department of Aquaculture, Fisheries College and Research Institute, Thoothukudi-628008, from 18th November to 8<sup>th</sup> December 2009. Sponsored by the Indian Council for Agricultural Research (ICAR), New Delhi.
- Prof. Whitin Endowment Lecture Series: “Challenges Faced in Combating Viral Infections in Today’s Health Scenario” Organized by the PG & Research Department of Zoology and Biotechnology, Lady Doak College, Madurai.
- Awareness Workshop on Intellectual Property Rights (IPR). Organized by the Department of Botany and Microbiology, Lady Doak College, Madurai.
- Workshop on Biological Data Handling. Organized by the PG & Research Department of Zoology and Biotechnology, Lady Doak College, Madurai.

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### **FACULTY DEVELOPMENT PROGRAMS / CERTIFICATE COURSES / NSS TRAINING ATTENDED**

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- Attended the Faculty Development Programme (FDP) on “Recent Trends in Content Creation” organized by the Centre for Communication and Multimedia, Lady Doak College, on 16<sup>th</sup> August 2024.
- VBC and IVBC Orientation Programme for Faculty organized by the Centre for Value Education, Lady Doak College, on 24<sup>th</sup> June 2024.
- Online Workshop on “Soft Skills for Capacity Building”, conducted by St. Joseph’s College, Tiruchirappalli, from 25th to 29th September 2023.
- Five-Day FDP on “Mentoring and Facilitation Skills for Institutional Mentors”, organized by MGNCRE, Department of Higher Education, MHRD, Govt. of India, from 8<sup>th</sup> to 12<sup>th</sup> June 2020, sponsored by Pandit Madan Mohan Malaviya National Mission.
- Three-Day FDP on Learning Management System (MOODLE), organized by Sacred Heart College (Autonomous), Tirupattur, from 8<sup>th</sup> to 10<sup>th</sup> June 2020.
- Five-Day FDP on “Strategic Approach to Online Teaching”, organized by Online Education Committee, Lady Doak College, from 13<sup>th</sup> to 17<sup>th</sup> July 2020.
- Three-Day Workshop on “Enhancing Online Teaching and Learning through Technology”, organized by IQAC and Department of Computer Science, Lady Doak College, Madurai, from 26<sup>th</sup> to 28<sup>th</sup> May 2020.
- 21-Day Online Certificate Course in Human Rights, conducted by Institute of Human Rights Education (IHRE), from 11<sup>th</sup> to 31<sup>st</sup> May 2020.
- NSS Programme Officer Orientation Training, organized by ETI for NSS, Avinashilingam Institute, Coimbatore, from 4<sup>th</sup> to 10<sup>th</sup> December 2019.



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## RESOURCE PERSON

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### INTERNATIONAL

- Chaired a Session in 5th International Conference on Fisheries and Aquaculture (ICFA 2018)  
Theme: “Facing the Global Fisheries and Aquaculture Challenges”  
Date: 23rd–24th August 2018  
Venue: Colombo, Sri Lanka  
Served as Session Chair, facilitating presentations and discussions on contemporary issues in global fisheries and aquaculture.
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### NATIONAL

- Refresher Course Speaker: Delivered expert sessions in the National Two-Week Academies’ Refresher Course on “Immunology Laboratory Techniques using Fish Model” held from 5th–17th December 2016 at Vels University, Chennai.
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### STATE

- Workshop Facilitator: Served as a resource person in the One-Day Workshop on “Monitoring for Sustainable Aquacultural Practices” organized by Kumbakonam Government Arts and Science College, sponsored by DST Auto Grant.
  - Guest Lecturer & Trainer: Delivered a guest lecture on “An Introduction to Biological Databases” and conducted hands-on training in the onsite workshop “Bioinformatics – Tools and Applications” at Sri Adi Chunchanagiri Women’s College, Cumbum on February 24–25, 2014.
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### REGIONAL

- Hands-on Trainer: Conducted a hands-on session in the Lecture-cum-Workshop on Animal Cell Culture organized by the Department of Biotechnology, Lady Doak College, Madurai, December 14–16, 2016.
  - Trainer: Acted as a resource person in the “5th National Training Workshop on Immunological Techniques”, sponsored by DBT, ICMR, TNSCST & NCSTC, held at Lady Doak College, Madurai, from May 3–15, 2010.
  - Trainer: Served as a trainer in the “4th National Level Training Workshop on Immunological Techniques”, sponsored by ICMR, CSIR, TNSCST & NCSTC, held at Lady Doak College, Madurai, from January 27 – February 5, 2009.
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## PANEL MEMBER:

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- External Examiner for Doctoral Committee constituent for Mr. Meet Jayeshkumar Patel (RRK22BT1008) Department of Biotechnology, School of Agriculture and Biosciences, Karunya Institute of Technology and Sciences, Karunya Nagar, Coimbatore.
- External examiner for practicals at Thiagarajar college, Madurai (2023- 2025).



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## ACADEMIC & DEPARTMENTAL RESPONSIBILITIES

### ORGANIZING SECRETARY

- Organizing Secretary, National Conference on Innovations in Biomedical Sciences (NCIBS '25), held on 27th & 28th March 2025.
- Organizing Secretary, National Workshop on Animal Cell Culture Techniques, held from 4th to 8th September 2017, sponsored by DBT, TNSCST, NCSTC, and DST-GOI.
- Organizing Secretary, Biorealm'25, a state-level intercollegiate meet organized by the Department of Biotechnology on 13th March 2025.
- Organized the Research Forum Inauguration for SIBS CLUB
- Organizing Committee Member, International Conference on New Avenues in Applied Science, held on 2nd & 3rd February 2023, jointly organized by the Internal Quality Assurance Cell (IQAC) and the Departments of Mathematics, Physics, Botany, Computer Science, and Biotechnology.
- Joint Convenor, Department Flagship Event: Inter-School Programme to Popularize Science among School Children (2015–2025).
- Organizing Secretary, Prof. Whitin Endowment Lecture Series cum National Level Seminar, organized by the Department of Zoology and Biotechnology, Lady Doak College, Madurai (for three consecutive academic years: 2019–2020, 2021–2022, and 2023–2024).

### DEPARTMENTAL RESPONSIBILITY

- BOS Treasurer (2021 - 2025)
- Convenor, SIBS (Scholars Invoking Biological Sciences) Academic Club (2023–2024).
- Convenor, WEBS & SIB Academic Clubs (2018–2023).
- Faculty Achievement Coordinator (2015–2025).
- Coordinator, Department Prizes for College Day and Graduation Day (2015–2025).
- Coordinator, Student Scholarships and Work Scholarships (2019–2025).
- Incharge, NAAC Criteria 4 – Infrastructure and Learning Resources (2023–2024).
- Incharge, NAAC Criteria 3 – Research, Innovations, and Extension (2021–2023).
- Alumnae Incharge, Department of Biotechnology (2017–2023).

### COLLEGE ONGOING RESPONSIBILITY

- Alumnae Association – Member (2019–2025)
- Graduation Committee – Member (2019–2025)
- UG Admission Committee – Member (2020–2025)

### COLLEGE PAST RESPONSIBILITY

- NCC – Member (2013–2016)
- Centre for Environmental Studies – Member (2014–2016)



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## INSTITUTIONAL COMMITTEE & RESPONSIBILITIES

### COLLEGE COMMITTEE

#### 2024-2025

- AQAR Technical Committee (Criteria 2)- Member
- LiFE Core Committee - Member
- Alumnae Association - Member
- Alumnae Meet 2024 - Photo Booth In-charge
- ICM Pozhil '24 - Stall In-charge & Convenor
- Mega Carnival - Yule Fest '23 - Stall In-charge
- 58th & 59th Graduation Day - Registration & Ushering
- 76th Annual Sports Day - Refreshments Committee
- Education Fair - Booth In-charge

#### 2023-2024

- LiFE Core Committee - Member
- Satellite Campus Committee - Member
- Alumnae Association - Member
- Admission Committee - Member
- Madurai Programme - Certificates & Prizes Coordination
- NTS Tournament Committee - Refreshments Committee
- Alumnae Association - Invitation & Selfie Booth Committee

#### 2022-2023

- Autonomy Review Committee - Technical Committee (Report)
- Mega Carnival - Pinnacle Fest '23 - Security & Discipline Committee
- Graduation Committee - Registration & Ushering
- AQAR Technical Support Committee (Criteria 1) - Member

#### 2021-2022

- NAAC Technical Committee (Criteria 1)- Member
- Graduation Committee - Registration & Ushering
- Alumnae Association Committee - Member
- Satellite Campus Committee - Member

#### 2020-2021

- NAAC Technical Committee (Criteria 1)- Member
- Alumnae Association - Member
- Centre for Human Resource Development - Member

#### 2019-2020

- NAAC Technical Committee (Criteria 1)- Member
- Carnival - Outside Stalls In-charge
- NSS Unit II (SF) - Programme Officer
- Alumnae Association - Member

#### 2016-2019

- NSS Unit II (SF) - Trained Programme Officer