



### **Personal**

Dr. D.Sherly  
Assistant Professor, Department of Zoology,  
All Saints' College, Trivandrum, Kerala, India.  
(Tel) 9995879676; 04712505041  
Email: [davidsherly424@gmail.com](mailto:davidsherly424@gmail.com)

### **Profile**

A teacher with good background knowledge in Zoology and Fisheries Science. Leadership in managing, developing and motivating teams to achieve targets. Proven skills to develop technologies in life science. Dedication to sustain high quality standards and capable to avail grant from scientific agencies to conduct research projects. Excellent capacity in maintain harmony among team. Hard working with a deep sense of duty and organizational skill to conduct symposia, workshop and seminars.

### **Academic Background**

- Ph.D. 1997, Aquatic Biology & Fisheries, University of Kerala, India
- M.Sc. 1989, Zoology, Mahatma Gandhi University, Kerala, India
- B.Sc. 1987, Zoology, University of Kerala, Kerala, India.
- P.D.C 1984, Science, University of Kerala, Kerala, India
- Certificate course. 1990, Russian language, University of Kerala, Kerala, India
- Computer skill - MS Office, Statistical analysis of research data

### **Major academic/research contributions**

- Formulated cost effective feeds for inland fish culture.
- Standardized synthetic growth promoters and feed additives for growth, feed utilization and body composition of fresh water culture fishes.
- Standardized induced breeding technique for tilapia, pearl spot and Indian major carps.
- Developed sustainable methods for ornamental fish culture and management.

## ***Profile - Dr. D.Sherly, Dept. of Zoology***

- Started an Add on course on 'Ornamental fish culture and management' (UGC sponsored) in Dept. of Zoology, All Saints' College.

### **Career history**

- Assistant Professor in Zoology (2010 onwards). All Saints' College, Trivandrum, Kerala.
- Faculty of Fisheries (2007-2010) - Vocational Fisheries School, Department of Fisheries, Govt. of Kerala, India.
- Inspector of Fisheries (2002- 2007) - Department of Fisheries, Govt. of Kerala, India.
- Faculty of Biotechnology (2001-2002) - Fatima Mata National College (Accreditation of B++ by NAAC), University of Kerala, India.

### **Analytical experience**

- Biotechnology assays: Protein estimation, DNA isolation, Mitochondrial DNA, Genomic DNA, SDS-PAGE, PCR, Activity of digestive enzymes (Amylase, Protease, Peroxidase etc).
- Microbiology protocols: Gram staining, Preparation of culture media for various microbes, Maintenance of inoculums
- Analysis of water quality parameters: pH, Turbidity, Total dissolved solid, Electrical conductivity, Total Hardness, Alkalinity, Dissolved oxygen, Biological oxygen demand, Phosphate, Nitrate, Chloride, Calcium, Magnesium, Identification and analysis of Phytoplankton etc.
- Analysis of Soil quality parameters: pH, Electrical conductivity, Carbonate content, Potassium, Nitrogen, Phosphorus, Organic matter, Inorganic salts, Deficiency of replaceable bases, Analysis of soil texture etc.

### **Research experience**

- Fresh water fish culture, hydrobiology, fish nutrition, feed formulation and preparation.
- Physiology of fishes, digestive enzymes assay, nucleic acid analysis, proximate body composition analysis (protein, lipid, glycogen, fiber, ash, etc.)
- Testing feed additives and its impacts on growth and body composition of major carps.
- Induction of ploidy by heat and cold shock, hormonal sex reversal, androgenesis and Gynogenesis.

### **Organisational skill in conducting training/ workshop/ seminars**

- Organized two day workshop on " Induced breeding of carps" for fish farmers. Govt. Fish seed farm. Pannivelichira, Pathanamthitta, Kerala. 21-22 August 2007.

### **Profile - Dr. D.Sherly, Dept. of Zoology**

- Conducted seminar on “Ornamental fish farming practices” Dept. of Fisheries, Pannivelichira, Pathanamthitta, Kerala. 12-13 October 2007.
- Conducted one day workshop on ‘Mushroom culture’ in Department of Zoology, All Saints’ College, 28 April 2010.
- Organised Regional Seminar on ‘Ornamental Fish Culture & Aquarium Keeping’ in Department of Zoology, All Saints’ College, 28 July 2010.
- Conducted one day field training on ‘Marine ornamental fish management’ to BSc students at CMFRI, Vizhinjam, Trivandrum. 21 Feb 2011.
- Organised one day field training on ‘Bird race’ to BSc students at Arippa Forest, Trivandrum, 20 April, 2011.
- Organised one day field training on ‘Bird watch and identification of endangering species’ to BSc students at Kallar, Trivandrum, 20 Nov 2012.
- Organised an International Seminar on Advances in Aquaculture Technology (ISAAT-2013) from 18-19 July 2013 at All Saints’ College, Trivandrum.
- Organised an Aqua show on ‘Ornamental fish culture & Aquarium management’ in association with Matsyafed, Govt. of Kerala and All Saints’ College on 13 March 2014 at All Saints College, Trivandrum.
- Conducted an Inter collegiate Quiz competition on ‘Ornamental fish culture & Aquarium management’ on 13 March 2014 at All Saints College, Trivandrum.
- Conducted a 5 day Workshop on ‘Ornamental fish culture & Aquarium management’ (Technology extension for livelihood enhancement among unemployed women) from 11-15 March 2014 at All Saints College, Trivandrum.
- Conducted one day field training on ‘Fish breeding techniques of Miss Kerala, *Sahyadri denisoni*’ to BSc students at Azhikodu Fish Hatchery, Govt. of Kerala, Thriss
- A 5 day Workshop on ‘Ornamental fish culture & Aquarium ure, 15 Aug 2014.
- Organised management’ (WOFCAM II) from 03-07-15 March 2015 at All Saints College, Trivandrum.
- Organised EDUFEST an orientation program on Career guidance to the students from fisher folk .It was a two day program for students who are receiving scholarships from Dept.Fisheries,Govt. Kerala.The program was from 9-10 ,October 2015 at All Saints College, Trivandrum.
- Organised an Aqua show on ‘Ornamental fish culture & Aquarium management’ in association with Department of Fisheries, Govt. of Kerala and All Saints’ College on 19-21 January 2016 at All Saints College, Trivandrum.

## ***Profile - Dr. D.Sherly, Dept. of Zoology***

- Organised a 5 day Workshop on 'Ornamental fish culture & Aquarium management' (WOFMAM III) from 09-13-15 February 2016 at All Saints College, Trivandrum.

### **Participation in National/ International Seminars/Training**

- National Symposium on Sustainable Development of Fisheries Towards 2000 AD- Opportunities and Challenges. Cochin University of Science and Technology, Cochin, 26-28 June 1999.
- 8<sup>th</sup> Asian Fisheries Science Forum, Held in Le Meridian International Convention Centre. Cochin, Kerala, 21-23 November 2007.
- Training on mushroom cultivation and spawn production by Mushroom Farmers and Byproducts Producers Welfare Society, 27-31 July 2009.
- One day orientation programme to the teaching staff of the colleges on the regulations of choice based credit and semester system, 9 December 2009.
- Regional seminar on Ornamental Fishes and Aquarium management organized by Dept. of Zoology, University college, Trivandrum, 9 January 2010
- 4<sup>th</sup> CMS VATAVARAN: Environment and Wildlife Travelling Film Festival & Forum 2010 programmes, 3-7 October 2010.
- 1<sup>st</sup> Indian Biodiversity Congress held at Chandrasekharan Nair Stadium Trivandrum 27-31 Dec 2010.
- Seminar on The Trends and Opportunities in Media organized by Outlook'11-Media Matters, 12 January 2011
- International conference of Asian Pacific Aquaculture, 17-20 January 2011
- 9th International Symposium on Reproductive Physiology of Fish held in Lulu International Convention Centre, Trissure, August 9 - 14, 2011.
- National Congress on Biodiversity organized by Dept of Botany, All Saints College, Trivandrum 28-29 Sep 2011.
- Regional Seminar on Environmental Science, Dept of Environmental Science, All Saints College, 27 Feb 2012.
- National training on techniques in Marine designer pearl production organized by CMFRI Vizhinjam 19-23 March 2013.
- National training on techniques in Marine ornamental fish keeping and breeding organized by CMFRI and National Fisheries development Board, Vizhinjam 26-30 March 2013
- Orientation program (IT oriented) held at UGC Academic Staff college, University of Kerala, Karyavattom 23 Apr -20 May 2013.
- Refresher Course conducted UGC Academic Staff College, University of Kerala, Karyavattom, TVM, 28 May -17 Jun 2013.
- National Seminar on 'Biological conservation and sustainability- Issues and Strategies' organized by Dept. of Zoology Kuriakos, Gregorios college, Pampadi, Kottayam 1-2 Aug 2013.
- National seminar on Advances In Chemistry - Research and Opportunities, All Saints' college, TVM, 5 August 2013.

### ***Profile - Dr. D.Sherly, Dept. of Zoology***

- International seminar on Ending Gendered Violence: From Theory to Practice, Dept. of English, All Saints' College, TVM, 18-19 November 2013.
- National seminar on Empowerment of Women: Challenges & Prospects - A Socio-Economic Perspective, Dept. of History and Economics, All Saints' College, TVM, 29-30 January 2014
- National seminar on Prevention of Lifestyle Diseases through participation in physical activities, Dept. of Physical Education, All Saints' College, TVM, 10-11 February 2014.
- Paper presented at National seminar cum workshop on Emerging Issues in Ornamental Fish Culture, Dept. of Zoology, University College, TVM, 24-25 November 2014.
- World ozone day celebrations 2015, Dept of Environmental Science, All Saints' College, TVM, 14 September 2015.
- Delivered an invited lecture and chaired a session in Two day national seminar on Threat Status and Biodiversity of Fish Fauna of Western Ghats, Dept. of Zoology, Iqbal College, Peringamala, 14- 15 October 2015.
- International conference on Prospective Approaches and Applications of Yoga and Physical Activity for Better Life, Dept. of Physical Education, All Saints' College, TVM, 19-20 November 2015.
- Seminar on Recent Trends in Biosciences, Dept. of Zoology, Govt. college for women, TVM, 25-26 November 2015
- Nature education camp at Eravikulam National Park, Munnar, 18-20 December 2015
- Paper presented at international conference on Environmental Stress and Aquatic Animal Health (ESA AH-2016), Dept. of Zoology, Govt. College for women, TVM, 24 February 2016.
- International conference on Aquatic Exotics: Trends, Challenges and Policies, Dept. of Aquatic Biology and fisheries, University of Kerala, 28-30 March 2016.
- Invited lecture on ornamental fishes, Ayyappa College, Nagarkoil, 7 May 2016.
- National seminar on Photonics, Medicine and the Environment (NSPME 2016), Dept. of Chemistry, All Saints' College, TVM, 22-23 June 2016.

#### **Extracurricular activities**

- Active member of the Nature club, Dept. of Zoology, All Saints' College.
- Course Coordinator for the Add on Course on 'Ornamental fish culture and Management.
- Advisor for Mushroom culture and management, All Saints College.
- Active member of World Wild Life Foundation, Kerala Chapter, Trivandrum.

### **Extension/Consultancy Services**

- Aquascaping and setting up of Aquarium tanks for entrepreneurs
- Fresh water Ornamental Fish Breeding and culture unit for farmers
- Design and setting up of Fresh water fish hatcheries
- Implementation of Biosecurity measures for fish and mushroom farmers
- Self employment development for students through integrated farming practices

### **Professional societies**

- Member of Inland Fisheries Society of India.
- Member of the Indian Aquaculture Society.
- Member of the Tropical Aquaculture Scientists.
- Member of World Wild Life Foundation.
- Member of Programme Team - Friends of Marine Life (FML).

### **Linguistics**

- English and Malayalam (Fluent)
- Hindi and Tamil (Good understanding, fair speaking)

### **Publications**

1. Sambhu, C., Sherly, D and Jayaprakas, V.,1994. Dietary administration of protein and steroid hormones on growth, feed utilization, digestibility and body composition of the pearlspot, *Etroplus suratensis* (Bloch). *Proceedings of the sixth Kerala Science Congress*, January 1994, Thiruvananthapuram pp. 349-351.
2. Sherly, D and Jayaprakas, V., 1995. Effect of L-thyroxine on larval growth and survival of fringed -lipped carp, *Labeo fimbriatus* (Day). *Proceedings of the seventh Kerala Science Congress*, January1995, Palakkad, Kerala, India pp.108-109.
3. Sherly, D and Jayaprakas, V., 1996. Impact of human chorionic gonadotropin on growth responses of the fringed lipped carp, *Labeo fimbriatus* (Day). *Journal of Aquaculture in Tropics*, 11: 215-226.
4. Sherly, D., Sambhu, C and Jayaprakas, V., 1999. Effect of a live microbial feed additive, G-probiotic on the growth of fringed lipped carp, *Labeo fimbriatus* (Day) *Proc. National Symposium on Sustainable Development of Fisheries Towards 2000 AD- Opportunities and Challenges*. Cochin University of Science and Technology.

## **Profile - Dr. D.Sherly, Dept. of Zoology**

5. Sherly, D., Sambhu, C and Jayaprakas, V., 2011. Growth response of fringed lipped carp, *Labeo fimbriatus* (day) to a soya product, Nutripro aqua. *Indian J Sci.Technol. ISRPF Issue*, 4:310-111.
6. Sambhu, C and Sherly, D., 2011. Red hogweed fights WSSV, promotes growth in tiger shrimp, *Global Aquaculture Advocate*: 94-95.
7. Sherly D and Jayaprakas V, 2013. Dietary supplementation of a herbal product, Livol on the growth performance of fringed lipped carp, *Labeo fimbriatus*. *Journal of Basic and Applied Biology*, 7 (3) :134-136.
8. Sherly, D and Jayapraks V, 2013. Effect of hormones and growth promoters on the growth responses of fringed lipped carp, *Labeo fimbriatus* (Day). *Journal of Basic and Applied Biology*, 6 (2) :26-34.
9. Sambhu, C and Sherly, D., 2014. Antiviral property and growth promoting potential of Punarnava, *Boerhaavia diffusa* in tiger prawn culture. *Indian Journal of Experimental Biology*, (In press).
10. Sherly Sambhu and Sambhu,C ,2016. Salinity tolerance of marine Sabaki tilapia, *Oreochromis spilurus*. *Proc. International conference on Aquatic Exotics: Trends, Challenges and Policies*. University of Kerala, TVM
11. Sherly Sambhu and Anjali Warriar, 2016. Reproductive performance of ornamental red cherry shrimp, *Neocaridina heteropoda* aquarium tanks. *Proc. International conference on Aquatic Exotics: Trends, Challenges and Policies*. University of Kerala, TVM

### **Scientific Reports/Books/Journals edited**

1. Sherly D., 2010. Report on Regional seminar on Ornamental fish culture & Aquarium Keeping. Submitted to Kerala State Council for Science, Technology & Environment, Govt. of Kerala, 22p.
2. Sherly D., Sambhu C., (Eds.) 2013. *Journal of Basic and Applied Biology* (Special issue released in connection with the Golden Jubilee Year of All Saint's College), Vol. 7 (3) 197p.
3. Sherly D., 2013. Report on International seminar on Advances in Aquaculture technology (ISAAT-2013) Submitted to Kerala State Council for Science, Technology & Environment, Govt. of Kerala, 25p.
4. Sherly D., Report on 'Workshop on Ornamental fish culture & Aquarium management' (Technology extension for livelihood enhancement among unemployed women) Submitted to Matsyafed, Govt. of Kerala, 25p.