

CHRISTOPHER ROY T.S.

M.Sc., M.Phil., SLET, PhD

**Executive Secretary to the Pro-Chancellor (Academics)
and Assistant Professor**
Department of Marine Biotechnology
ACADEMY OF MARITIME EDUCATION AND TRAINING
(AMET) Deemed to be University
Kanathur, Chennai – 603 112



ACADEMIC QUALIFICATION

Ph.D. Degree (Zoology – Marine Biotechnology)

- October 2005
- Centre for Marine Science & Technology, Manonmaniam Sundaranar University, Tamil Nadu.

M.Phil. Degree (Zoology)

- April 1998 (72.25 %)
- Scott Christian College, Manonmaniam Sundaranar University, Tamil Nadu.

M.Sc. Degree (Zoology)

- April 1997 (66.65 %)
- Scott Christian College, Manonmaniam Sundaranar University, Tamil Nadu.

B.Sc. Degree (Zoology)

- April 1995 (75.95 %)
- Scott Christian College, Manonmaniam Sundaranar University, Tamil Nadu.

ADDITIONAL CERTIFICATION

SLET (Zoology) – UGC accredited

- May 1997
- Bharathidasan University, Tamil Nadu.
- Entitles eligibility for Lectureship in Universities/Colleges throughout India.

P.G. Diploma (Medical Entomology)

- August 2000 (77.75 %)
- Vector Control Research Centre, Pondicherry.

IELTS (International English Language Testing System)

- October 2006
- Overall Band Score: 8.0 (Academic).

SCUBA Diving (Advanced Open Water – PADI certified)

- December 2009
- DIVE INDIA, Havelock, South Andaman.

Integrated Coastal Zone Management (ICZM) Online Certificate Course

- March 1, 2013 – July 5, 2013
- Certificate issued by UNESCO-IHE, Delft, the Netherlands.

Advanced Certificate in Geo-informatics

- May 4, 2015 – June 4, 2015
- Centre for Environment and Development (CED), Thiruvananthapuram, Kerala.

EXPERIENCE

Research – Field & Lab-based

Project Scientist (Feb. 2016 – Jun. 2019)

- Zoological Survey of India, Marine Biology Regional Centre, Chennai.
- Used GIS Software to map coral diversity, distribution and health in the ‘Long-term Monitoring Programme of Lakshadweep Reefs’ Project.

Ecologist (Scientist) (Sep. 2012 – Apr. 2015)

- Society of Integrated Coastal Management (SICOM), Ministry of Environment, Forest and Climate Change, New Delhi.
- Involved in the planning phase of the Integrated Coastal Zone Management Project for Kerala.

Research Associate (Jul. 2009 – Jul. 2011)

- Zoological Survey of India, Andaman & Nicobar Regional Centre, Port Blair.
- Prepared a compendium and conducted field surveys in the Great Nicobar Biosphere Reserve as part of the 'GNBR – Lead Institution' Project.

Supervisor (Nov. 2006 – Dec. 2006)

- National Institute of Malaria Research (NIMR) Field Unit, Chennai.
- Conducted door-to-door surveys in the Government of India's 'In-depth Review on Malaria' program.

Research Associate (Sep. 2004 – Nov. 2004)

- Central Institute of Brackishwater Aquaculture (CIBA), Chennai.
- Prepared reports in the 'ICAR - National Agricultural Technology Project on Coastal Agroecosystems' involving shrimp health management.

Senior Research Fellow (Jan. 2002 – Sep. 2004)

- Centre for Marine Science and Technology (CMST), Manonmaniam Sundaranar University, Rajakkamangalam.
- Conducted research leading to a PhD in the 'ICAR - NATP Project' on Grouper breeding.

Field Researcher (Apr. 1995 – Apr. 1996)

- Scott Christian College, Nagercoil.
- Collected field data on flora and fauna in the 'Western Ghats Biodiversity Inventory Programme' of the Indian Institute of Science, Bangalore and M.S. Swaminathan Research Foundation, Chennai.

Product Development

Senior Manager (Jul. 2019 – Aug. 2020)

- Cordis Analytics India Pvt. Ltd. & TCINX India Pvt. Ltd., Chennai (Sister Concerns).
- Developed an E-learning programme for school students in the Turks & Caicos Islands (Caribbean).

Team Lead (Apr. 2007 – Mar. 2009)

- IQL Software Pvt. Ltd., Guindy, Chennai.
- Managed the content preparation for three major projects - "Alternative Medicine therapies", "Allopathic Drug Interactions" and "Chinese/Eastern Medicines".

Teaching

Guest Lecturer (Sep. 2011 – Aug. 2012)

- Dept. of Zoology, JNRM College (Government), Port Blair, South Andaman.
- Taught Zoology to Undergraduate students.

Community Service

Assistant (Feb. 2005 – Jul. 2005)

- Antioch Missionary Assembly, Chennai.
- Conducted Tsunami relief operations at Mahabalipuram, Tamil Nadu.

Publications:

Journals

1. **Roy T.S.C.**, Gopalakrishnan A., Muneer P.M.A., John L., Musammilu K.K. and Basheer V.S. (2014). Resolution of taxonomic ambiguity in Groupers (Pisces: Serranidae) by the Random Amplified Polymorphic Technique. *Indian J. Fish.* **61(2)**: 28-34.
2. **Roy T.S.C.** (2012). Survey of fish abundance in Campbell Bay, Great Nicobar Island. *Indian J. Fish.* **59(4)**: 175-177.
3. **Roy T.S.C.** and Gopalakrishnan A. (2011). Identification of Groupers based on Pyloric Caeca differentiation. *Journal of Fish Biology* **79(5)**: 1334-1339.
doi:10.1111/j.1095-8649.2011.03089.x, available online at wileyonlinelibrary.com
4. Kumar J.S.Y., Sornaraj R., Asir N.G.G., Chakkaravarthy V.M. and **Roy T.S.C.** (2010). Scleractinian diversity of Keelakarai group of islands in Gulf of Mannar Biosphere Reserve, Tamil Nadu. *Int. J. Biol. Sci.* **1**: 59-66.
5. Mohamed J.S., Sivaram V., **Roy T.S.C.**, Marian M.P., Murugadass S. and Hussain M.R. (2003). Dietary Vitamin A requirement of the juvenile greasy grouper, *Epinephelus tauvina*. *Aquaculture* **219**: 693-701.
doi:10.1016/S0044-8486(02)00665-8

Conference Proceedings/Abstracts

1. Wesly C.A., **Roy T.S.C.**, Chandrasekar V. and Sambath G. (2018). Interdisciplinary Coordination for Marine Turtle Conservation. Presented in the International Conference on Biodiversity and Sustainable Resource Management (ICBSRM-2018) on 12-13 March, 2018 held at the University of Madras, Chennai.
2. **Roy T.S.C.**, Wesly C.A., Chandrasekar V. and Sambath G. (2018). Responding to a Marine Turtle Infection picked up while being held in captivity. Presented at BIOTRENDS 2018 – A National summit on recent trends in biosciences held on 26-27 February 2018 at IIT Madras, Chennai.
3. **Roy T.S.C.** and Rajan R. (2017). Contribution of the Zoological Survey of India to Marine Mammal Research in India and future prospects. Presented at the Marine Mammal Research in India Symposium, 11-12 December, 2017, National Centre for Biological Sciences (NCBS), Bengaluru.
4. Rajan P.T. and **Roy T.S.C.** (2016). Review of the Groupers (Pisces: Serranidae: Epinephelinae) of Andaman and Nicobar Islands, with Pyloric caeca as an additional tool for identification of species. In: Proceedings of the International Conference on Climate Change adaptation and biodiversity: Ecological sustainability and resource management for livelihood security (S. Damroy *et. al.*, eds.), pp. 374-385. (ASA: ICCB-2016).
5. **Roy T.S.C.** (2011) Biosphere reserves as learning centres of livelihood, sustainable development and climate change. Presented in the International Conference on Tropical Island Ecosystems (TIECON): Issues related to Livelihood, Sustainable Development and Climate Change, 23-26 March 2011, Port Blair. Island Governance and Policy IGP-003, Abstract p.182.

6. **Roy T.S.C.,** Kumar J.S.Y. and Peter D.M. (2010). Identification of Alternate Commercially Important Lobster Species from the Waters of Ritchie's Archipelago, Andamans. Presented in the International Conference on Recent Advances in Lobster Biology, Aquaculture and Management (RALBAM) held at the NIOT, Chennai, 5-8 January 2010.
7. Marian M.P., Babu M.M., Sivaram V. and **Roy T.S.C. (2002)**. Artemia as Marine Drosophila an ultimate model for Genomic Research. In: National Seminar on status of Artemia research in India, March 22-23, Abstract p.70.
8. Marian M.P., Babu M.M. and **Roy T.S.C. (2002)**. Status of Artemia production in the coastal salt works of India. In: INCO project Artemia biodiversity Ghent Workshop, February 5-7, 2002, Ghent, Belgium.
9. Marian M.P. and **Roy T.S.C. (2001)**. Biotechnological management of salt fields for better quality and productivity. pp. 67–75. In: Proceedings of the seminar on Biotechnology in salt production, DCW Sahapuram, 10th April 2001, 75 p.

Book Chapter

Rajan P.T., **Roy T.S.C.** and Sreeraj C.R. (2012). The contribution of coral reef fishes to Andaman fisheries production: Grouper fishery and its monitoring and implications for management. In *Recent advances in biodiversity of India*. pp. 285-295. Zoological Survey of India Publication.

Theses

1. **Roy T.S.C. (2004)**. Biotechnological studies on culture aspects of the grouper, *Epinephelus spp.* *Ph.D. dissertation*, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India, 143 p.
2. **Roy T.S.C. (1998)**. Evaluation of the bio-control potential of the Reduviid predator, *Rhynocoris fuscipes* (Fabricius) on *Epilachna vigintioctopunctata*. *M.Phil.dissertation*, Manonmaniam Sundaranar University, Tirunelveli, India, 56 p.

Trainings undergone:

Cetacean Line-transect Survey Training

- Dec. 15-18, 2017
- Off the coast of Kochi, India jointly organized by the National Oceanic and Atmospheric Administration (NOAA), USA, National Centre for Biological Sciences (NCBS), Bengaluru and Centre for Marine Living Resources and Ecology (CMLRE), Kochi.

Marine Mammal Necropsy/ Stranding Response Training

- Nov. 8-11, 2011
- At the Madras Veterinary College, Chennai, INDIA jointly organized by the Department of Veterinary Pathology, Madras Veterinary College, Chennai and the National Oceanic and Atmospheric Administration (NOAA), USA.

Coastal Hazard and Vulnerability Mapping

- Jan. 4-8, 2010
- At the Integrated Coastal and Marine Area Management (ICMAM) Project Directorate, Chennai

DNA Marker Technologies: Principles & Applications

- Feb. 21 – Mar.3, 2007
- At the National Bureau of Fish Genetic Resources (NBFGR) Cochin Unit, CMFRI Campus, Kochi, India.

Seabass (*Lates calcarifer*) Seed production and Culture

- Jul. 28 – Aug. 6, 2004
- At the Central Institute of Brackishwater Aquaculture (CIBA), Chennai, India.

Recent advances in Mariculture Genetics and Biotechnology

- Nov. 4-25, 2003
- At the Central Marine Fisheries Research Institute (CMFRI), Kochi organized by the Indian Council of Agricultural Research (ICAR), India.

PCR in Shrimp Disease Diagnosis

- Jul. 4-6, 2002
- At the Fisheries Biotechnology Centre of the Fisheries College and Research Institute, Thoothukudi, Tamil Nadu Veterinary and Animal Sciences University, India.

Molecular Biology

- May 28 – June 8, 2001
- At the SPIC Science Foundation, Chennai, India.

Chromosome and Gene Manipulation in Fishes

- Oct. 3-24, 2000
- At the M.K. University, Madurai sponsored by the Indian Council of Agricultural Research (ICAR)

Electrophoresis Techniques

- May 17-22, 1999
- At the Electrophoresis Institute, Yercaud, India.

Personal Details:

Residence:

New # 59/5 (Old # 29/5), Century Anchorage,
Flat H-1, 4th Seaward Road, Valmiki Nagar,
Thiruvanmiyur, Chennai, Tamil Nadu - 600 041

Mobile: (+91) 94875 26512

E-mail: chris.roy@ametuniv.ac.in
dr.tcroy@gmail.com