

## RESUME

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Department : Zoology  
Date of Appointment : 01-03-2013  
Year of Service and : 3 years  
Date of Retirement : 31/03/2037

### *Papers published in journals*

1. Neethu Balan, Sikha Hariharan and **Rejitha V.** (2015). Nutritive value of fishes: A comparative study using three teleosts. *Catholicate J. Studies Res.* 4(1&2): 85-88.
2. **Rejitha, V.** and Peter, M. C. S. (2013). Adrenaline and triiodothyronine modify the iron handling in the freshwater air-breathing fish *Anabas testudineus* Bloch: Role of ferric reductase in iron acquisition. *Gen. Comp. Endocrinol.* 181: 130-138.
3. Peter, M. C. S. and **Rejitha, V.** (2011). Interactive effects of ambient acidity and salinity on thyroid function during acidic and post-acidic acclimation of air-breathing fish (*Anabas testudineus* Bloch). *Gen. Comp. Endocrinol.* 174: 175-183.
4. **Rejitha, V.** Peter V.S. and Peter M.C.S. (2009). Salinity acclimation demands thyroid hormone action in climbing perch (*Anabas testudineus* Bloch). *J. Endocrinol. Reprod.* 13(2): 63-72.

5. Peter, M.C.S., Joshua, E.K., **Rejitha, V.** and Peter, V.S. (2009). Thyroid hormone modifies the metabolic response of air-breathing perch (*Anabas testudineus* Bloch) to nimbecidine exposure. *J. Endocrinol. Reprod.* 13(1): 27-36.
6. Vijayasree, A.S., **Rejitha, V.**, Peter, V.S., Oommen, O.V. and Peter, M.C.S. (2008). Interrenal response in climbing perch (*Anabas testudineus* Bloch) to nitrate exposure: Hydromineral and metabolic considerations. *J. Endocrinol. Reprod.* 12(2): 73-79.
7. Peter, M.C.S., Leji, J., **Rejitha, V.**, Ignatius, J. and Peter, V.S. (2008). Physiological responses of African catfish (*Clarias gariepinus*) to water-borne ferric iron: Effects on thyroidal, metabolic and hydromineral regulations. *J. Endocrinol. Reprod.* 12(1): 24-30.
8. Leji, J., Babitha, G.S., **Rejitha, V.**, Vijayasree, A.S., Ignatius, J., Peter, V.S., Oommen, O.V. and Peter, M.C.S. (2007). Thyroidal and osmoregulatory responses in tilapia (*Oreochromis mossambicus*) to the effluents of coconut husk retting. *J. Endocrinol. Reprod.* 11(1): 23-30.
9. Peter, M.C.S., **Rejitha, V.** and Dilip, D.G. (2007). Handling of ferric iron by branchial and intestinal epithelia of climbing perch (*Anabas testudineus* Bloch). *Indian J. Exp. Biol.* 45(10): 896-900.

#### ***Papers presented in conferences***

1. Vishnupriya S. Nair and **Rejitha V.** (2015). Effect of preservative processes on the nutritional essentials in the muscle tissue of two teleost fishes. National Seminar on Threat Status and Biodiversity of Fish Fauna of Western Ghats. Organised by Department of Zoology, Iqbal College, Peringammala, Thiruvananthapuram, October 14-15, 2015.
2. Anju Krishna V. R. and **Rejitha V.** (2015). Effect of water-borne paracetamol on the muscle metabolic status of *Oreochromis mossambicus*. National Seminar on Threat Status and Biodiversity of Fish Fauna of Western Ghats. Organised by Department of Zoology, Iqbal College, Peringammala, Thiruvananthapuram, October 14-15, 2015.
3. Peter, V. S. and **Rejitha, V.** (2012). Differential responses of air-breathing fish to iron oxide nanoparticle during stress response. 7th International Conference on the Environmental Effects of Nanoparticles and Nanomaterials, P69. The Banff Centre, Banff, Alberta, Canada, September 10-12, 2012. pp. 36.
4. **Rejitha, V.** and Peter, M. C. S. (2012). Adrenaline and triiodothyronine are involved in the iron acquisition of climbing perch (*Anabas testudineus* Bloch): Evidence from ferric reductase activity. International Symposium on Comparative Endocrinology and Stress Physiology held at University of Kerala, Thiruvananthapuram. February 16-18, 2012. pp. 88.
5. Peter, M. C. S., Peter, V. S. and **Rejitha, V.** (2011). Physiologic effects of iron nanoparticles in the air-breathing fish *Anabas testudineus* Bloch. 6<sup>th</sup> International Conference on the Environmental effects on nanoparticles and nanomaterials held at London, September 19-21, 2011. N1.92.

6. **Rejitha, V.** and Peter, M.C.S. (2011). Iron handling by freshwater fish gills: role of H<sup>+</sup>-ATPase and cortisol. 29<sup>th</sup> Ann. Symp. Reprod. Biol. Comp. Endocrinol. held at University of Mysore, India. February 10-12, 2011. pp. 126.
7. **Rejitha, V.** and Peter, M.C.S. (2010). Salinity acclimation demands thyroid hormone and cortisol action in climbing perch (*Anabas testudineus* Bloch). 28<sup>th</sup> Ann. Symp. Reprod. Biol. Comp. Endocrinol. held at Jawaharlal Nehru University, New Delhi, India. February 4-6, 2010. pp. 99.
8. **Rejitha, V.** and Peter, M.C.S. (2010). Iron acquisition by freshwater fish gills: Role of Na<sup>+</sup>, K<sup>+</sup>-ATPase. Presented in the 22<sup>nd</sup> Kerala Science Congress held at KFRI, Peechi. January 28-31, 2010. pp. 825.
9. **Rejitha, V.** and Peter, M.C.S. (2009). Iron tolerance in the climbing perch, *Anabas testudineus* (Bloch): Role of thyroid hormones and cortisol. Presented in the 27<sup>th</sup> Ann. Symp. Reprod. Biol. Comp. Endocrinol. held at University of Hyderabad, Hyderabad, India. January 19-21, 2009. pp. 91.
10. **Rejitha, V.**, Jilna Alex and Peter, M.C.S. (2008). Endocrine control of ferrous iron handling in the net-confined climbing perch *Anabas testudineus* Bloch. Presented in the 26<sup>th</sup> Ann. Symp. Reprod. Biol. Comp. Endocrinol., Holy Cross College, Tiruchirappalli, India, January 23-25, 2008. pp. 28.
11. Vijayasree, A.S., **Rejitha, V.**, Peter, V.S., Oommen, O.V. and Peter, M.C.S. (2008). Interrenal response to water-borne nitrate in the climbing perch, *Anabas testudineus* Bloch: Hydromineral and metabolic considerations. Presented in the 26<sup>th</sup> Ann. Symp. Reprod. Biol. Comp. Endocrinol. Held at Holy Cross College, Tiruchirappalli, India, January 23-25, 2008. pp. 54.
12. **Rejitha, V.**, Lekshmy, S. and Peter, M.C.S. (2007). Differential response of the bioaccumulation of iron in the haematopoietic tissues of climbing perch to ferrous and ferric iron infusions. Presented in the 25<sup>th</sup> Ann. Symp. Reprod. Biol. Comp. Endocrinol., University of Kerala, Thiruvananthapuram, India, January 15-17, 2007. pp. 61.
13. **Rejitha, V.** and Peter, M.C.S. (2006). Physiological responses of freshwater-adapted and seawater-acclimated *Anabas testudineus* (Bloch) to acidic pH. Presented in the 18<sup>th</sup> Kerala Science Congress held at CESS, Akkulam, Thiruvananthapuram, January 29-31, 2006. pp. 520-522.
14. Peter, M.C.S. and **Rejitha, V.** (2006). Osmoregulatory, metabolic and thyroidal responses in air-breathing perch to alkaline pH. Presented in the 24<sup>th</sup> Ann. Symp. Reprod. Biol. Comp. Endocrinol. Held at IIT Roorkee, Uttaranchal, India, February 14-16, 2006. pp. 28-29.
15. Peter, M.C.S., George, N., **Rejitha, V.** and Lekshmi, S. (2006). Responses of sodium pump activities to Fe<sup>3+</sup> loading in perfused tissues of African catfish, *Clarias gariepinus*. Presented in the 24<sup>th</sup> Ann. Symp. Reprod. Biol. Comp. Endocrinol., IIT Roorkee, Uttaranchal, India, February 14-16, 2006. pp. 65.

### *Conferences and Workshops attended*

- ✓ National Seminar on Threat Status and Biodiversity of Fish Fauna of Western Ghats. Organised by Department of Zoology, Iqbal College, Peringammala, Thiruvananthapuram, 14-15 October, 2015.
- ✓ International Symposium on ‘Comparative Endocrinology and Integrative Physiology (CEIP 2015)’ organized by CEIB-Centre for Evolutionary and Integrative Biology, University of Kerala, Kariavattom, Thiruvananthapuram, 4-7 August, 2015.
- ✓ Two days Training Programme on ‘Disaster Management and Drought’ organized by the district Administration in association with Institute of Land and Disaster Management, Thiruvananthapuram (ILDm) and Nehru Yuva Kendra, 23-24 May, 2015.
- ✓ Participation in ‘Common Bird Monitoring Programme 2015’ organized by WWF-India, Kerala State Office in association with Kerala Forest and Wildlife Department, 13-16 February, 2015.
- ✓ Workshop on M.Sc. Practicals for college teachers held at Department of Zoology, Alphonsa College, Pala on 7 February, 2014.
- ✓ One day Seminar on ‘Avenues in Higher Education’ organized by Internal Quality Assurance Cell (IQAC), Catholicate College, Pathyanamthitta on 6 April, 2013.
- ✓ International Symposium on ‘Comparative Endocrinology and Stress Physiology’ organized by the Department of Zoology, University of Kerala, Thiruvananthapuram, 16-18 February, 2012.
- ✓ National Workshop on ‘Epigenetics and Gene Expression’ organized by the Department of Endocrinology, Sekkizhar Campus, University of Madras, Chennai, 21 February – 3 March, 2011.
- ✓ International Symposium on Current trends in Endocrine and Reproductive Health and 29<sup>th</sup> Annual Meeting of the Society for Reproductive Biology and Comparative Endocrinology organized by Department of Studies in Zoology, University of Mysore, India, 10-12 February, 2011.
- ✓ International Symposium on Endocrinology and Reproduction: Molecular Mechanisms to Molecular Medicine and 28<sup>th</sup> National Symposium on Reproductive Biology and Comparative Endocrinology organized by Jawaharlal Nehru University, New Delhi, 4-6 February, 2010.
- ✓ 22<sup>nd</sup> Kerala Science Congress, organized by the Kerala State Council for Science, Technology & Environment, at the Kerala Forest Research Institute, Peechi, 28-31 January, 2010.
- ✓ 97<sup>th</sup> Indian Science Congress organized by Indian Space Research Institute and University of Kerala, Thiruvananthapuram, 3-7 January, 2010.

- ✓ 27<sup>th</sup> National Symposium on Reproductive Biology and Comparative Endocrinology, organized by University of Hyderabad, 19-21 January, 2009.
- ✓ International Workshop on Stress Physiology and Endocrinology, organized by University of Kerala, Thiruvananthapuram, 16-18 September, 2008
- ✓ 26<sup>th</sup> National Symposium on Reproductive Biology and Comparative Endocrinology, organized by Holy Cross College, Bharathidasan University, Tiruchirappalli, Tamilnadu, 23-25 January, 2008.
- ✓ 25<sup>th</sup> National Symposium on Reproductive Biology and Comparative Endocrinology, organized by University of Kerala, Thiruvananthapuram, 15-17 January, 2007.
- ✓ Colloquium on Nanoscale Science and Arthropod Bioresources, CABB, University of Kerala, 2006.
- ✓ 18<sup>th</sup> Kerala Science Congress, organized by the State Council for Science, Technology & Environment, at the Centre for Earth Science Studies, 29-31 January, 2006.

***Orientation Programme attended***

- Attended the two day residential Orientation Programme for Academic Staff of the colleges under the Corporate Management of M.O.C. Colleges held at Samanvaya Centre, Pampakuda, 16-17 May, 2014.

***Projects Undertaken:***

- UGC Funded Project entitled ‘Pharmaceutical compounds and its impact on aquatic organisms’ for the period 2015-2017.

***Membership in International Committee:***

- ❖ Membership in the International Committee “Society for Integrative Biology” for the period 2015-2018.

***Title of M. Phil. Dissertation***

Physiological responses of *Anabas testudineus* (Bloch) to acidity and alkalinity.

***Area of Specialization: Ecophysiology***

***Title of Ph. D. thesis***

Mitochondria-rich cells and iron transport in fish gills.