

OOMMEN V. OOMMEN, M. Sc., Ph. D., F.R.E., F.A.S., F.N.A.Sc.

Personal Details

Name : OOMMEN V. OOMMEN
Nationality : Indian
Date of birth : 01. 09. 1949
Designation : Professor and Head,
Contact address : Department of Zoology
University of Kerala, Kariavattom
Trivandrum, India - 695 581
Phone- 91- 471- 2418906
Permanent address : Baruch, Gandhipuram, Sreekariam
Phone- 0091-471-2598940
E-mail address : oommenvo@yahoo.com
oommenvo@gmail.com

Educational Qualifications

Ph. D : 1977
(B. H. U. Varanasi)
M.Sc. Zoology : 1973- First Class; 2nd Rank
(B. H. U. Varanasi)
B.Sc. Zoology : 1969- First Class
(University of Kerala)

Research Publications

130 Papers & Reviews/Chapter in Books
in National and International Journals (listed in detail - page 6 onwards)

Professional Experience

29 years of teaching experience in Endocrinology, Animal physiology, Biochemistry, Genetics etc.

2004 - 2006 : Dean, Faculty of Science
1995 - till date : Head
Department of Zoology, University of Kerala,
Kariavattom, Trivandrum, India.
1994 - till date : Professor
1988 - 1994 : Reader
1980 - 1988 : Lecturer

1977 - 1980

Department of Zoology, University of Kerala,
Kariavattom, Trivandrum, India.
: Lecturer in Zoology
St. John's College, Agra, India.

Research Experience

29 years of research experience.

28 years in guiding M. Phil. and Ph. D students.

1. One month training on biochemical techniques in Indian Institute of Science, Bangalore, 1981.
2. Two weeks training in Research methodology in the Department of Biochemistry, Madurai Kamaraj University, 1986.
3. One month in the Department of Biological Chemistry, University de Paris and Department of Comparative Physiology and Endocrinology, Museum de Naturalle Histore, Paris, 1986.
4. NATO Advanced Institute of Nervous System in Vertebrates, Bishop's University, Canada, 1986.
5. Five months in the Department of Zoology, on biochemical techniques, University of Guelph, Ontario, Canada, 1989.
6. Ten months on 'Fish Endocrinology' in the Institute of Aquaculture, University of Sterling, UK, 1989-1990.
7. Visiting professor: The University of Texas, MD Anderson Cancer Center, Houston 2003.

Schemes Supervised

1. Effect of adrenal and pancreas hormones in oxidative metabolism of poikilotherms. (Funded by UGC, 1981-83).
2. Effect of drugs and hormones on oxidative metabolism in lower vertebrates. (Funded by DST, 1984-89).
3. Effect of thyroid hormones on fatty acid and phospholipid metabolism in a fish, *Anabas testudineus*. (Funded by DST, 1996-99).
4. Aspects unique about spermatogenesis and spermiogenesis in the Caecilians of the Western Ghats of Kerala (Funded by UGC 2002-2005)
5. Effect of thyroid hormones on lipid peroxidation and antioxidant enzyme activities in fish (Funded by DST, 2002-2005)
6. Population size of Indian Caecilians (Gymnophiona) – hypothesis testing, continued monitoring and refining methods (Funded by DAPTF- IUCN).
7. A comprehensive insight into the molecular taxonomy, ecology and reproductive biology of caecilians of Western Ghats of Kerala and Tamilnadu (Funded by KSCSTE).

Memberships

1. Board of studies in Zoology (Chairman) : University of Kerala
2. Board of studies in Endocrinology (M. Sc.) : University of Madras
3. Society for Integrative and Comparative Biology : Life member
4. Society of Reproductive Biology and Comparative Endocrinology : Life member, Vice President, President (1988-91, 1994- 97) 2003.
5. Indian Society of Comparative Animal Physiologists : Life Member
6. Indian Society of Chronobiology
7. Ethological Society of India
8. Zoological Society of India
9. Association for advancement of Entomology : Life member and Vice-President
10. Indian Society of Life Sciences
11. Kerala Academy of Sciences : President 2003 -2005; 2008 -
12. Association of British Scholars : President 2004-2007; 2007- till date
13. Society for Translational Cancer Research : Secretary

Awards

1. UGC National Associateship : 1984-87
2. CSIR-CNRS Exchange Programme of Indian Scientists visiting France : 1986
3. International Scientific Exchange Award NSERC, Canada for six months in the University of Guelph, Canada : 1989
4. Commonwealth Academic Staff Fellowship University of Sterling, UK. : 1989-1990
5. Chairman of a session on Endocrinology control of metabolism in the XII International Congress of Comparative Endocrinology at Toronto, Canada. : 1993
6. Fellowships in Reproduction and Endocrinology (FRE) by the society for Reproductive Biology and Comparative Endocrinology, Chennai.
7. Prof. P. Govindarajulu Gold Medal : 1998

8. Fellow of the Kerala Academy of Sciences (FAS).
9. Fellow of the National Academy of Sciences,
India (FNASc)
10. President, Kerala Academy of Sciences. : 2003 – 2005, 2008 - .
11. President, Association of British Scholars : 2006 -

New species of Caecilian described “*Uraeotyphlus oommeni*” in Species groups in the Indian caecilian genus *Uraeotyphlus peters* (Amphibia : Gymnophiona : uraeotyphlidae), with the description of a new species by Gower D J & Wilkinson M, *Herpetologica*, 63, 401-410 , **2007**.

Editorial Board

1. Journal of Endocrinology and Reproduction
2. Journal of Animal Morphology and Physiology

Research Guiding

Ph. D Awarded : 20
Ph. D Supervising : 5
M. Phil Awarded : 28

Conferences Organized

1. 2nd International Symposium on Translational Research; natural products & cancer, Lonavla, Mumbai, **2007**.
2. XXV SRBCE National Symposium on Reproductive Biology and Comparative Endocrinology, University of Kerala, Trivandrum, **2007**.
3. International Symposium on Translational Research; Apoptosis and cancer, Thiruvananthapuram, **2005**.
4. XVI National Symposium on Reproductive Biology and Comparative Endocrinology, University of Kerala, Trivandrum, **1998**.

5. XII National Conference of Comparative Animal Physiology, University of Kerala, Trivandrum, **1991**.
6. Sixth Annual Symposium on Reproductive Biology and Comparative Endocrinology, University of Kerala, Trivandrum, **1986**.

Conferences Attended

1. Indo-French Seminar on Embryology and Comparative Endocrinology, BHU, Varanasi, 1974.
2. XXVI International Congress of Physiological Sciences, New Delhi, 1974.
3. First all India Symposium on Comparative Animal Physiology, Marthawada University, Aurangabad, 1975.
4. Fifth all India Symposium on Comparative Animal Physiology, University of Pune, 1980.
5. Third Symposium on Reproductive Biology and Comparative Endocrinology, SV University, Tirupati, 1983.
6. First International Symposium of Indian Society of Life Sciences, Magadh University, Bodh-Gaya, 1983.
7. Fourth Annual Symposium on Reproductive Biology and Comparative Endocrinology, University of Madras, 1984.
8. Third Oriental Entomology Symposium, University of Kerala, Trivandrum, 1984.
9. All India Symposium on Vectors and Vector-borne diseases, University of Kerala, Trivandrum, 1984.
10. XII Annual Symposium of the Ethological Society of India, University of Kerala, Trivandrum, 1984.
11. Fifth Annual Symposium on Reproductive Biology and Comparative Endocrinology, JIPMER, Pondicherry, 1985.
12. All India Symposium on Insect Physiology, Ecology and behavior, University of Kerala, 1984.
13. Sixth Annual Symposium on Reproductive Biology and Comparative Endocrinology, University of Kerala, Trivandrum, 1986.
14. NATO Advanced Study Institute on Nervous Systems in Invertebrates, Bishops University, Canada, 1986.
15. Seventh Annual Symposium on Reproductive Biology and Comparative Endocrinology, Annamalai University, Annamalai, 1988.
16. Symposium on Recent Trends in Comparative Endocrinology, BHU, Varanasi, 1988.
17. Second Symposium on Vectors and Vector-borne diseases, University of Kerala, Trivandrum, 1988.
18. Ninth Annual Symposium on Reproductive Biology and Comparative Endocrinology, Bharathidasan University, Trichy, 1991.

19. XII National Conference of Comparative Animal Physiology, University of Kerala, Trivandrum, 1991.
20. X All India Symposium on Reproductive Biology and Comparative Endocrinology, Avinashalingam Deemed University, Coimbatore, 1992.
21. International Conference on Alcohol, Micronutrients and Cell Function, University of Kerala, Trivandrum, 1992.
22. XI All India Symposium on Reproductive Biology and Comparative Endocrinology's University, Tirupathi, 1993.
23. XII International Congress of Comparative Endocrinology, University of Toronto, Canada, 1993.
24. XII All India Symposium on Reproductive Biology and Comparative Endocrinology, Pondicherry University, 1994.
25. XIII All India Symposium on Reproductive Biology and Comparative Endocrinology, Osmania University, Hyderabad, 1995.
26. Conference on European Comparative Endocrinologists, University of Rouen, Paris, 1996.
27. Symposium on Emerging frontiers in Hormone Research, Banaras Hindu University, Varanasi, 1996.
28. XV National Symposium on Reproductive Biology and Comparative Endocrinology, University of Burdwan, 1997.
29. XVI National Symposium on Reproductive Biology and Comparative Endocrinology, University of Kerala, Trivandrum, 1998.
30. National Symposium on Molecular Diagnostics, Department of Biochemistry, University of Kerala, Trivandrum, 1998.
31. XVII National Symposium on Reproductive Biology and Comparative Endocrinology, Govt. Medical College, Surat, 1999.
32. XVIII National Symposium on Reproductive Biology and Comparative Endocrinology, Madras Christian College, Chennai, 1999.
33. Tenth Annual meeting of the Indian Society for the study of Reproduction and Fertility (ISSRF). Rajiv Gandhi Centre for Biotechnology, Trivandrum, 1999.
34. EntomoCongress 2000, Perspectives for the new millennium., Trivandrum, 2000
35. XIX National Symposium of the Society for Reproductive Biology and Comparative Endocrinology & UGC- DSA Conference, M.S. University of Baroda, Vadodara, Gujarat, 2001.
36. XX National Symposium on Reproductive Biology and Comparative Endocrinology, Department of Animal Science, Bharathidasan University, Tiruchirappalli, 2002.
37. XXI National Symposium on Reproductive Biology and Comparative Endocrinology, Department of Zoology, Banaras Hindu University, Varanasi 2003
38. Annual meeting of Society of Integrative and Comparative Biology, New Orleans, USA 2004.
39. XXII National Symposium on Reproductive Biology and Comparative Endocrinology, Department of Endocrinology, University of Madras, Taramani Campus, Chennai, 2004.
40. International Conference on Biotechnology and Neuroscience. Cochin University of Science and Technology, Kochi, 2004.

41. XXIII National Symposium on Reproductive Biology and Comparative Endocrinology, Viswa- Bharati, Santhiniketan, 2005.
42. International Symposium on Translational Research; Apoptosis and cancer, Thiruvananthapuram, 2005. (Organizing Secretary)
43. XXIV SRBCE National Symposium on Reproductive Biology and Comparative Endocrinology, Indian Institute of Technology, Roorkee, 2006.
44. XXV SRBCE National Symposium on Reproductive Biology and Comparative Endocrinology, (Organizing Secretary), University of Kerala, Trivandrum, 2007.
45. 2nd International Symposium on Translational Research; natural products & cancer, Lonavla, Mumbai, 2007.
46. International Conference on Free Radicals & Natural Products in Health, University of Rajasthan, Jaipur, India, 2008.

List of Publications

1. Thapliyal, J. P., Chandola, A., Kumar, D. S., and Oommen, O. V. (1974). Testosterone versus thyroid hormone in the regulation of oxidative metabolism in two species of reptiles. *J. Endocrinol.* 63: 419-420.
2. Thapliyal, J. P., Kumar, D. S., and Oommen, O. V. (1975). Variation in thyroid activity and respiratory rate during a 24 hour period and of testosterone and thyroxine *in vivo* on the oxidative metabolism of *Natrix piscator*. *Gen. Comp. endocrinol.* 23: 100-106.
3. Thapliyal, J. P., Oommen, O. V., Kaur, R. J., and Garg, R. K. (1977). Effects of surgical thyroectomy and L-thyroxine on the oxidative metabolism and haemopoiesis of spotted munia, *Lonchura punctulata*. *Gen. Comp. Endocrinol.* 31: 486-491.
4. Oommen, O. V. (1978). Seasonal variations in the response of isolated skeletal muscle and liver from the lizard, *Calotes versicolor*, to hormones *in vitro*. *J. Zool. Soc. India.* 30: 1-6.
5. Oommen, O. V. (1980). Effects of testosterone, its metabolites and testosterone plus actinomycin D or Chloramphenicol on oxidative metabolism of lizard tissue *in vitro*. *J. Anim. Morphol. Physiol.* 27: 124-131.
6. Johnson, C., and Oommen, O. V. (1982). Seasonal variation on the biochemical constituents in tissues of garden lizard, *Calotes versicolor*. *J. Reprod. Biol. Comp. Endocrinol.* 2: 64-68.
7. Oommen, O. V. (1983). Effect of castration and testosterone administration on the thyroid activity and oxygen consumption in the Indian palm squirrel, *Funambulus pennanri* (wrongton). *J. Anim. Morphol. Physiol.* 30: 27-33.

8. Oommen, O. V., and Sunny, F. (1984). Effects of administration of glucagon and epinephrine on few organic constituents of the liver in male *Calotes versicolor*. *J. Reprod. Biol. Comp. Endocrinol.* 1-4: 24-27.
9. Sreedeviamma, K. K., and Oommen, O. V. (1984). Role of thyroid gland in the oxidative metabolism of *Calotes versicolor*. *J. Reprod. Biol. Comp. Endocrinol.* 4: 78-85.
10. Oommen, O. V. (1985). Effect of temperature and testosterone *in vitro* on oxidative metabolism of lizard tissues *Indian. J. Comp. Anim. Physiol.* 3: 9-11.
11. Josekumar, V. S., and Oommen, O. V. (1986). Thyroid-Gonad interrelationships in the garden lizard, *Calotes versicolor*. *J. Reprod. Biol. Comp. Endocrinol.* 6: 86-97.
12. Ignatius, J., and Oommen, O. V. (1987). Effect of adrenaline on oxidative metabolism in a bony fish *Anabas testudineus* (Bloch). *Indian. J. Exp. Biol.* 25: 613-617.
13. Peter, M. C. S., and Oommen, O. V. (1987). Effects of administration of tri-iodothyronine on oxidative metabolism in a bony fish *Anabas testudineus* (Bloch). *J. Reprod. Biol. Comp. Endocrinol.* 7: 53-60.
14. Sreedeviamma, K. K., and Oommen, O. V. (1987). Influence of testosterone on few biochemical constituents in different tissues of Indian garden lizard, *Calotes versicolor*. *J. Reprod. Biol. Comp. Endocrinol.* 7: 13-20.
15. Prasannakumar, K., and Oommen, O. V. (1988). Adrenal hormones and oxidative metabolism in the liver of Indian garden lizard, *Calotes versicolor*. *Indian. J. Exp. Biol.* 26: 128-128.
16. Jameela, T. P., and Oommen, O. V. (1988). Role of adrenal hormones on the turn over of chemical constituents and the activities of two hepatic enzymes in *Anabas testudineus* (Bloch). *Proc. Indian. Natn. Sci. Acad. B.* 54: 25-30.
17. Oommen, O. V., and Sreedeviamma, K. K. (1988). Influence of thyroid hormones and testosterone on the activities of hepatic mitochondrial enzymes in the garden lizard, *Calotes versicolor*. *Gen. Comp. Endocrinol.* 69: 392-398.
18. Oommen, O. V., and Peter, M. C. S. (1988). Thyroid hormones and hepatic enzymes of a teleost, *Anabas testudineus* (Bloch). *The Physiologist* (USA). 30, 4: 127.
19. Peter, M. C. S., and Oommen, O. V. (1988). Effects of thyroid and gonadal hormones on hepatic succinate dehydrogenase activity of a teleost, *Anabas testudineus* (Bloch). *Zool. Science* (Japan). 6: 185-189.
20. Josekumar, V. S., and Oommen, O. V. (1988). Effect of adrenaline on hepatic enzyme activities in apodan amphibia, *Gegenophis carnosus*. *Indian. J. Exp. Biol.* 26: 796-800.

21. Peter, M. C. S., and Oommen, O. V. (1988). Influence of thyroid hormones on hepatic mitochondrial enzymes of thiouracil treated teleost, *Anabas testudineus* (Bloch). *Indian. J. Exp. Biol.* 26: 651-653.
22. Sutharam, K. K., and Oommen, O. V. (1989). Effect of thyroid hormones on energy metabolism in an apoda *Gegenophis carnosus*. *Indian. J. Exp. Biol.* 26: 651-653.
23. Peter, M. C. S., and Oommen, O. V. (1989). Oxidative metabolism in a teleost, *Anabas testudineus* (Bloch): Effect of thyroid hormones on hepatic enzyme activities. *Gen. Comp. Endocrinol.* 73: 96-107.
24. Peter, M. C. S., and Oommen, O. V. (1989). Effect of thyroid hormones on the activities of hepatic enzymes in thiouracil treated teleost, *Anabas testudineus* (Bloch). *Current Science.* 58: 67-68.
25. Peter, M. C. S., and Oommen, O. V. (1989). The effect of testosterone and its metabolite on the activities of oxidative enzymes in *Anabas testudineus* (Bloch). *J. Reprod. Biol. Comp. Endocrinol.* 8: 10-17.
26. Josekumar, V. S., and Oommen, O. V. (1989). Effect of corticosterone administration on the activities of oxidative enzymes in *Gegenophis carnosus* (Beddome). *Indian. J. Comp. Anim. Physiol.* 2: 159-164.
27. Josekumar, V. S., and Oommen, O. V. (1989). Effect of insulin administration on the oxidative metabolism in an apoda *Gegenophis carnosus* (Beddome). *Indian. J. Comp. Anim. Physiol.* 7: 29-34.
28. Peter, M. C. S., and Oommen, O. V. (1989). Response of hepatic oxidative enzymes to administration of estradiol-17B estradiol and diethylstilbestrol in *Anabas testudineus*. *J. Reprod. Biol. Comp. Endocrinol.* 1: 48-55.
29. Peter, M. C. S., and Oommen, O. V. (1989). Oxidative metabolism in a teleost *Anabas testudineus* (Bloch): Effect of testosterone and 17B on hepatic enzyme activities. *Fish. Physiol. Biochem* (Canada). 6: 377-385.
30. Ignatius, J., and Oommen, O. V. (1989). Effect of insulin on hepatic mitochondrial enzymes in a teleost *Anabas testudineus* (Bloch). *J. Reprod. Biol. Comp. Endocrinol.* 1: 89-96.
31. Ignatius, J., and Oommen, O. V. (1990). Effect of bovine insulin on oxidative metabolism in a teleost *Anabas testudineus* (Bloch). *Proc. Indian. Nat. Sci. Acad.* B56: 319-326.
32. Jacob, V., and Oommen, O. V. (1990). Intermediary metabolism in lizard *Calotes versicolor*. Role of thyroid hormones. *Gen. Comp. Endocrinol.* 77: 327-336.

33. Sutharam, K. K., Peter, M. C. S., and Oommen, O. V. (1990). Stimulation of oxidative metabolism by thyroid hormones in an apodan amphibia, *Gegenophis carnosus* (Beddome). *Gen. Comp. Endocrinol.* 79: 246-252.
34. Ignatius, J., and Oommen, O. V. (1990). Effects of corticosteroids and protein synthesis inhibitors on activities of oxidative enzymes in a bony fish, *Anabas testudineus* (Bloch). *Gen. Comp. Endocrinol.* 78: 303-310.
35. Sutharam, K. K., Peter, M. C. S., and Oommen, O. V. (1991). Androgenic control of hepatic mitochondrial metabolism in an apoda, *Gegenophis carnosus* (Beddome). *Indian. J. Exp. Biol.* 29: 1027-1030.
36. Ignatius, J., and Oommen, O. V. (1991). Stimulation of oxidative metabolism by glucagon in a fish *Anabas testudineus* (Bloch). *J. Reprod. Biol. Comp. Endocrinol.* 2: 51-57
37. Peter, M. C. S., and Oommen, O. V. (1991). Role of thyroid hormones in rotenone-treated teleost *Anabas testudineus* (Bloch): Effects on oxidative enzyme activities. *Indian.J.Exp. Biol.* 29: 481-483.
38. Oommen, O. V., and Matty, A, J. (1991). The effect of thyroid hormones and starvation on mitochondrial nucleic acids and on plasma proteins of rainbow trout (*Onchorhynchus mykiss*). *Gen. Comp. Endocrinol.* 83: 468-472.
39. Jacob, V., and Oommen, O. V. (1991). A comparison of the effects of corticosterone and cortisol on intermediary metabolism of *Calotes versicolor*. *Gen. Comp. Endocrinol.* 85: 86-90.
40. Ballantyne, J. S., John, T. M., Singer, T. D., and Oommen, O. V. (1992). Short-term effects of tri-iodothyronine on the bow fin, *Amia calva* (Holostei) and the lake char, *Savelinus namaycush* (Teleostei). *The. J. Exp. Zool.* 261: 105-109.
41. Jacob, V., and Oommen, O. V. (1992). Role of thyroid hormones in intermediary metabolism of propanalol or alloxan-treated *Calotes versicolor*. *The. J. Exp. Zool.* 262: 263-270.
42. Peter, V. S., and Oommen, O. V. (1992). Intermediary metabolism in castrated/thyroidectomised *Calotes versicolor*. Regulation by thyroxine and testosterone. *Zool. Sci.* (Japan). 9: 1059-1064.
43. Peter, M. C. S., and Oommen, O. V. (1992). Effect of bovine insulin on the turnover of biochemical constituents and the activities of certain enzymes a teleost *Anabas testudineus* (Bloch). *J. Reprod. Biol. Comp. Endocrinol.* 3: 95-103.

44. Peter, V. S., and Oommen, O. V. (1993). Stimulation of oxidative metabolism by thyroid hormones in propanalol / alloxan treated bony fish *Anabas testudineus* (Bloch). *The. J. Exp. Zool.* 266: 85-91.
45. Johnson, B., and Oommen, O. V. (1993). Cortisol and hepatic intermediary metabolism in lower vertebrates: A comparative study in a teleost, *Anabas testudineus* and an apodan amphibia *Gegenophis carnosus*. *J. Reprod. Biol. Comp. Endocrinol.* 5: 44-50.
46. Suresh Kumar, M. A., Oommen, O. V., and Karnavar, G. K. (1993). Studies in the influence of azadirachtin on the intermediary metabolism of an insect *Teleogryllus mitratus*. *J. Reprod. Biol. Comp. Endocrinol.* 5: 1-7.
47. Kaipallil, J. D., and Oommen, O. V. (1994). Influence of estrogen on intermediary metabolism in a teleost *Anabas testudineus* and the lizard *Calotes versicolor*. *The. J. Exp. Zool.* 270: 467-473.
48. Nair, P., and Oommen, O. V. (1995). Thyroid stimulating hormone stimulates the intermediary metabolism in *Anabas testudineus*. *American Zool.* 35: 47A.
49. Peter, M. C. S., Sutharam, K. K., and Oommen, O. V. (1996). *In vitro* effect of thyroid and gonadal hormones on the activity of mitochondrial oxidative enzymes in a teleost *Anabas testudineus* (Bloch) and an apodan amphibia *Gegenophis carnosus* (Beddome). *Proc. Indian. Natn. Sci. Acad.* B62: 71-80.
50. Oommen, O. V., Peter, M. C. S., and Alex, S. (1996). Insulin and corticosterone in a teleost *Anabas testudineus* (Bloch): effect of certain biochemical parameters of intermediary metabolism. *Proc. Indian. Natn. Sci. Acad.* B62: 173-180.
51. Nair, P., and Oommen, O. V. (1997). Role of thyroxine on intermediary metabolism of thiouracil treated *Anabas testudineus*. *Indian. J. Exp. Biol.* 35: 983- 986.
52. Suresh Kumar, M. A., Karnavar, G. K. and Oommen, O. V. (1997). Effect of human insulin on the intermediary metabolism of *Teleogryllus mitratus*. *Entomon.* 22, (3 & 4): 199-205.
53. Valampampil, T., and Oommen, O. V. (1997). Tri-iodothyronine (T₃) and thyroxine T₄ levels in *Rana curtipes* during development and metamorphosis. *Indian. J. Exp. Biol.* 35: 1375-1377.
54. Oommen, O. V., and Matty, A. J. (1997). Metabolism in poikilotherms: Regulation by thyroid hormones. In 'Frontiers in Environmental and Metabolic Endocrinology'. (Ed. Maitra, S. K.. Univ. Burdwan. Pp 1- 11.

55. Suresh Kumar, M. A., Oommen, O. V., and Karnavar, G. K. (1998). L- thyroxine modifies ovarian development and intermediary metabolism in *Teleogryllus mitratus* (Gryllidae: Orthoptera). *The J. Endocrinol. Reprod.* 1, (2): 86-91.
56. Oommen, O. V., and Johnson, B. (1998). Metabolic effect of growth hormone in a teleost *Anabas testudineus*. In 'Trends in Comparative Endocrinology and Neurology: From Molecular to Integrative Biology'. (Eds. Vaudry, H., M. Toron, E. W. Roubos)
57. Nair, P. N., and Oommen, O. V. (1998). Effect of TRH and TSH on hepatic intermediary metabolism in normal and thiouracil-treated teleost, *Anabas testudineus*. *Indian. J.Exp. Biol.* 36: 470-475.
58. Varghese, S., and Oommen, O. V. (1999). Thyroid hormone regulate lipid metabolism in a teleost, *Anabas testudineus* (Bloch). *Comp. Biochem. Physiol.* 124: 445-450.
59. Leena, S., Shameena, B. and Oommen, O. V. (1999). Studies on the effect of growth hormone *in vivo* and *in vitro* on lipogenic enzymes and transaminases, in a teleost *Anabas testudineus* (Bloch). *Endocrine. Res.* 25, 3/4: 341-355.
60. Leena, S., Shameena, B. and Oommen, O. V. (1999). Variation in lipid composition by bovine growth hormone in *Anabas testudineus* (Bloch). *J. Endocrinol. Reprod.* 3, (1) 11-19.
61. Oommen, O. V., Nair, P. N., Baby, J., Suresh Kumar, M. A., and Thomas, T. V. (2000) Thyroid in intermediary metabolism. In 'Comparative Endocrinology and Reproduction'. (Eds. Joy, K. P., C. Haldar, and A. Krishna). Narosa Publishing House, New Delhi. pp: 585-599.
62. Varghese, S., and Oommen, O. V. (2000). Effect of tri-iodothyronine (T₃) and di-iodothyronine (T₂) on lipid metabolism in a teleost *Anabas testudineus* (Bloch). *Indian.J. Biochem. Biophys.* 37,188-191.
63. S.Leena and Oommen O.V. (2000). Hormonal control of enzymes of osmoregulation in a teleost *Anabas testudineus* (Bloch): An *in vivo* and *in vitro* study. *Endocrine Research* 26 (2), 169-187.
64. Shameena, B., Varghese, S., Leena, S and Oommen, O.V. (2000) 3,5,3'-Tri-iodo thyronine (T₃) and Di iodothyronine have short-term effects on lipid metabolism in a teleost *Anabas testudineus* (Bloch): Evidence from enzyme activities. *Endocrine Research* (Marcel &Dekker) 26 (3), 431-444.
65. James, J., Valampampil, T., and Oommen, O.V. (2000). Studies on the development of the labial teeth row In *Rana Curtipes* Tadpoles *J.Bombay Nat.Hist.Soc.* 97.223-229.

66. Oommen, O.V., Measey J.G., Gower, J.D., and Wilkinson, M. (2000) Distribution and abundance of the caecilian *Gegenophis ramaswami* (Amphibia: Gymnophiona) in southern Kerala. *Current Science* .79, 9, 1386-1389.
67. Varghese, S., and Oommen, O. V. (2000). Long term feeding of dietary oils alters lipid metabolism, Lipid peroxidation, and antioxidant enzyme activities in a teleost *Anabas testudineus* (Bloch). *Lipids*. 35, 757-762.
68. Leena S., Lakshmy PS and Oommen O.V (2000). Effect of carp growth hormone on lipid metabolism in a teleost, *Anabas testudineus* (Bloch). *J. Endocrinol Reprod* 4 (1). 26-34.
69. Francis Sunny and Oommen O.V. (2000). Steroid hormones regulate enzymes of osmoregulation in a fresh water fish *Oreochromis (tilapia) mossambicus*. *J. Endocrinol Reprod* 4 (2): 63-73.
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Reviews / Chapters in Books

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8. **Oommen O V**, Sreejith P, Beyo R S, Divya L, Vijayasree A S, Manju M (2006) Throid hormones regulate mitochondrial respiration as well as antioxidant defense in telosts too! *J Endocrinol. Reprod.* 10, 96-105.

RESEARCH CONTRIBUTIONS: Prof. Oommen's research contributions in the last 28 years concentrated mainly on the hormonal regulation of metabolism in sub mammalian vertebrates. The interest ushered in the area of comparative endocrinology prompted him to undertake extensive studies in non-mammalian vertebrates to establish a somewhat identical pattern in these groups as in homeotherms. Prof. Oommen's laboratory has research collaboration with several laboratories in India and abroad. He has established the T₃ receptor assay in a fish model with the Biotechnology Dept. of CUSAT. He has strong link with the Animal Sciences Dept. of Bharathidasan University on several aspects of male and female reproductive biology employing electron microscopy as the tool. They have published a dozen papers describing stages of spermatogenesis, oogenesis and on seasonality of reproduction in Caecilian amphibians. Prof. Oommen had published over two dozen papers on ecology and molecular phylogenetics in this group of animals from his collaboration with Natural History Museum, London. Currently he is investigating the role of reactive oxygen species and antioxidant enzymes in metamorphosing tadpoles in collaboration with Rajiv Gandhi Centre for Biotechnology. Further, he is investigating the importance of plant products on ROS quenching in association with the chemistry department of University of Kerala. This has also led a research link with MD Anderson Cancer Center, Texas, USA on plant products in Cancer research. This research collaboration resulted in the organization of the two International Symposia on Translational Research one in Trivandrum inaugurated by the President of India and the 2nd one in 2007, Lonavala, Mumbai with Prof. Oommen as the organizing secretary. Prof. Oommen has very recently entered into research collaboration with Centre for Cellular & Molecular Biology (CCMB) Hyderabad on Hox D gene expression in metamorphosing tadpoles and apodan amphibians (Caecilians). Considering Prof. Oommen's contribution to caecilian reproductive biology and molecular taxonomy. Scientists from Natural History Museum, London honoured him by naming a caecilian amphibian species after him (*Ureaotyphlus oommeni*). Currently, he is the Co-ordinator, of UGC – SAP, with molecular taxonomy, biodiversity, vertebrate & invertebrate endocrinology as the focal theme. Prof. Oommen serves as the President of Kerala Academy of Sciences & Association of British Scholars two agencies popularizing science among people at large and students in particular in the state of Kerala.

Ph.D THESIS SUPERVISED

- 1) **Sreedeviamma. K.K (1985)**: Effect of hormones on oxidative and intermediary metabolism of a reptile, *Calotes versicolor*.
- 2) **Subash Peter M.C (1988)**: Oxidative metabolism in the teleost, *Anabas testudineus*: Role of thyroid and gonadal hormones.
- 3) **Sutharam. K.K (1990)**: Studies on the role of certain hormones on energy metabolism in an apodan amphibian, *Gegenophis carnosus* (Beddome).
- 4) **Josekumar.V.S (1990)**: Action of adrenal and pancreatic hormones on certain enzymes of energy metabolism in a caecilian, *Gegenophis carnosus* (Beddome).
- 5) **Valsa Jacob (1990)**: Hormonal regulation of intermediary metabolism in the Indian garden lizard, *Calotes versicolor*.
- 6) **Ignatius.J (1990)** Studies on the oxidative metabolism of a bony fish, *A.testudineus* (Bloch)-Regulation by adrenalin and pancreatic hormones: *In vivo* and *in vitro* study.
- 7) **Jose.D.Kaippallil (1992)**: Effect of steroid hormones on metabolism in lower vertebrates.
- 8) **Thomas.T.Valampampil (1994)**: Endocrinological, morphological studies, on the development and metamorphosis of *Rana curtipes* (Jerdon).
- 9) **M.A. Suresh Kumar (1994)**: Effect of tetranortriterpanoides and mammalian hormones on the metabolism and ovarian development of *Teleogryllus mitratus*. (Gryllidae: Orthoptera).

- 10) **Padmaja N.Nair (1996)** Intermediary metabolism in teleost, *Anabas testudineus*: Regulation by hormones of hypothalamus, pituitary, thyroid and islet of langerhans.
- 11) **Sheelu Varghese (1999)** Thyroid hormones and lipid diet: Influence on various aspects of lipid metabolism, peroxidation, antioxidant potential and neurotransmitters in an ectotherm (Fish) and an endotherm (Rat).
- 12) **S. Leena (2000)**: Studies on lipid metabolism in a bony fish, *Anabas testudineus* (Bloch): Regulation by hormones and drugs.
- 13) **Shameena Bake (2000)** Effect of thyroid hormones and lipid diet on intermediary metabolism with special attention on fatty acid turn over in a fish, *Anabas testudineus* (Bloch).
- 14) **Johnson baby (2001)**: Intermediary metabolism in a teleost, *Anabas testudineus* (Bloch): Regulation by pituitary and interrenal hormones.
- 15) **Francis sunny (2001)**: Genomic and Nongenomic regulations by steroid hormones on enzymes of intermediary metabolism and osmoregulation in a fresh water teleost, *Oreochromis* (Tilapia) *mossambicus*.
- 16) **Smita Mathew (2003)**: The male reproductive biology of the caecilians, *Ichthyophis tricolor* and *Uraeotyphlus narayani* from Western Ghats: Aspects unique to spermatogenesis.
- 17) **Cyril Johnson (2004)**: Influence of certain plant extracts on the growth and metabolism of teleosts (*Anabas testudineus* and *Labeo rohita*) and a mammal (*Rattus norvegicus*).
- 18) **Lakshmy.P.S (2006)**: Hormonal regulation of lipid peroxidation and antioxidant defense system in a teleost and metamorphosing amphibian: *in vivo* and *in vitro* studies.

19) **Sreejith.P.K (2007):** Thyroid status governs lipid peroxidation rate, antioxidant enzyme profiles and mitochondrial metabolism in a teleost, *Anabas testudineus* (Bloch).

20) **Beyo.R.S (2008):** A comprehensive insight into the molecular taxonomy, ecology and reproductive biology of two caecilians, *Ichthyophis tricolor* and *Gegeneophis ramaswami*

Ph.D Thesis : ONGOING

21. **Divya.L:** Developmental aspects of antioxidant profile in a metamorphosing anuran (amphibia), *Rana Curtipes*, Jerdon: morphology to molecular studies.

22. **Vijayasree.A.S:** Endocrine regulation of metabolic and osmoregulatory performance in a teleost exposed to environmental stress.

23. **Manju.M:** Protective role of certain plant products as antioxidants: An evaluation in teleosts and mammalian model.

24. **Dilip Kumar.R:** A comprehensive insight into the reproductive and *in vivo* genotoxic effects of *Stevia rebaudiana Bertoni* extracts, purified diterpenoid glycosides and its metabolites in a mammalian model.

25. **Jeejakumari V.K:** Studies on the reproductive and neurological parameters of the Indian Shilajit.

26. **Ramachandran K:** Diversity, taxonomy and reproductive aspects caecilians of the Western Ghats.