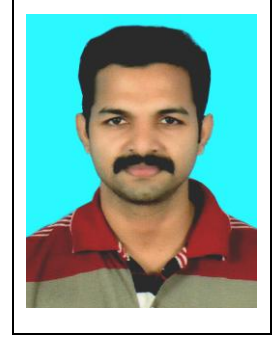


Curriculum Vitae



Panakkool Thamban Aneesh

UGC-DS KOTHARI-Post-Doctoral Fellow (UGC-DSK-PDF)
Department of Aquatic Biology & Fisheries
University of Kerala, Karyavattom
Thiruvananthapuram-695 581, Kerala, India
Mob- (+91) 8547513716; (+91) 7902503716 E-mail: anee3716@gmail.com
https://www.researchgate.net/profile/Panakkool_Aneesh2
<http://www.abisys.in>

1. Personal Details

Date of birth : 16th May, 1985
Sex : Male
Marital status : Married
Permanent Address: Adukkadan Thazhil Veettil,
Thayyeni (P. O.) Kasaragod Dist -670511, Kerala, India.
Telephone: (Home) (+91) 4985 - 213716
(Mob) (+91) 8547513716; (+91) 9020237700 E-mail: anee3716@gmail.com

2. Educational qualifications: M. Sc., B. Ed., SET, Ph. D.

I) POST-DOCTORAL LEVEL

a. UGC –DS KOTHARI POST DOCTORAL FELLOW

Project Title: *Diversity, Distribution, DNA Barcoding and Phylogeny of Isopods (Arthropods: Crustacea) parasitizing Commercially valuable marine fishes along the Kerala coast*

Duration: **3 Years,**

Date of Joining: **01/11/2017**

Host Institute: **Department of Aquatic Biology & Fisheries, University of Kerala, Kariavattom**

Name of the Mentor: **Dr. A. Biju Kumar** (Professor and Head & Mentor)
Department of Aquatic Biology & Fisheries
University of Kerala
Kariavattom
Thiruvananthapuram - 695 581

b. Water Research Group, North west University, Poachfastroom Campus, South Africa as an Invited Fellow

Duration: **1 month,**

Host Mentor: **Prof. Nico Smit & Dr. Kerry Hadifield**

As part of a global biodiversity database project on parasitic Cymothoids

c. POST DOCTORAL FELLOW – Zoological Survey of India (MoEF & CC, Govt. of India)

Project Title: *Diversity, Distribution, and Taxonomy of Parasitic crustaceans infesting the marine fishes of Indian water*

Duration: From **01/11/2017 to 16/10/2017: 1 Years, 2 months and 16 days**

Name of the Mentor: **Dr. Kailash Chandra**

Director
Zoological Survey of India
HQ, Kolkata

d. Senior Research Fellow (Post Doctoral)

From March 2016 to June 2016 I was worked in ICAR-Central Institute of Brackishwater Aquaculture (CIBA), Chennai on EHP, a microsporidean parasite infesting on shrimps, recently reported from India.

II. DOCTORAL LEVEL

a. Ph. D. (Zoology) : Thesis entitled “*Studies on parasitic crustaceans infesting the fishes of Malabar coast*”

: (Date of award: 23.10.2014)

Supervising Teacher

: Dr. Sudha K.

Post Graduate Dept. of Zoology & Research Centre,

Sree Narayana College, Kerala, India.

Under the registration of Kannur University

b. B. Ed. : (2007-08) First Class, Kannur University
(Natural Science)

c. M. Sc. (Zoology) : (2005-07) First Class, Annamalai University
(University campus, Chidambaram)

d. B. Sc. (Zoology) : (2002-05) First Class, Payyanur College, Payyanur
Kannur University, Kerala, India.

Details of the Research:

- For the past Ten years I have been pursuing research on taxonomy, growth and reproduction of parasitic crustaceans infesting the marine fishes of Indian waters. I have started my doctoral research in 2009 on the topic “Studies on Parasitic Crustaceans Infesting the Fishes of Malabar Coast”. I have been awarded PhD degree in 2014 from Kannur University, Kerala, India. In the mean time, I have learned the basics of crustacean taxonomy by reading taxonomic papers, books and through the interaction with several renowned taxonomists world over.

After my doctoral programme I have worked at Sree Narayana College, Kannur and Nehru Arts & Science College, Kanganthangad, Kerala as a **guest lecturer**; ICAR-Central Institute of Brackishwater Aquaculture (CIBA), Chennai as **Senior Research Fellow** on EHP, a microsporidean parasite infesting on shrimps, recently reported from India, which involves the techniques such as Histopathology, Microscopy, Microbiology, In-situ hybridization, Isolation of Nucleic acids (DNA & RNA), PCR, nested PCR, Real Time PCR etc. I was also worked as an **Assistant co-ordinator** (part-time) in IGNOU (Indira Gandhi National Open University) study centre, Kannur. Most recently at the Zoological Survey of India as a **Post-Doctoral Fellow** on the “Taxonomy of Cymothoids”. I have joined the Department of Aquatic Biology & fisheries, University of Kerala in November 2017 as **UGC-DS Kothari post-doctoral fellow**.

The outcome of my research work was published in various reputed international peer reviewed and impact factored journals (26 papers) such as Marine Biodiversity (4 papers), Zoological Studies (2 papers), Zootaxa (3 papers), Systematic Parasitology (2 paper), Acta Parasitologica (2 papers), Zookeys (1 paper) etc. Seven papers were published in Proceedings of National/International Symposium/Conference. Another 19 papers were published in abstract volume of National/International Symposium/Conferences. Apart from this I have presented 3 papers in International and 7 papers in National symposium and he

participated 25 various Workshop/ short training/symposium/conferences/seminars (pl see my contributions: https://www.researchgate.net/profile/Panakkool_Aneesh2/contributions).

My research continues to focus on the occurrence, taxonomy, phylogeny, Moults and reproduction of parasitic crustaceans infesting on marine invertebrate and vertebrate hosts of Indian waters. I have described or redescribed nearly 25 species of isopods/copepods. My present research focuses on "***Taxonomy, Diversity, Distribution, DNA Barcoding and Phylogeny of Isopods and copepods (Arthropoda: Crustacea) parasitizing marine invertebrate and vertebrates of Coastal waters of India***". The major focus of work at present is the systematics of the parasitic crustaceans funded by University Grants Commission under Dr. D. S. KOTHARI POST DOCTORAL fellowship scheme.

- **Post Doctoral Fellow (PDF), MoEF & CC, Govt. of India:** From June 2016 to October 2017 I have worked in **Zoological Survey of India**, Head quarters, New Alipore, Kolkata as a **Post Doctoral Fellow (PDF) on the topic Crustacean fauna of India.**
- **UGC-DS KOTHARI-Post-Doctoral Fellow:** For the last one year I have been working on **Molecular taxonomy of Parasitic crustaceans along the Kerala Coast**, in the Department of Aquatic Biology & Fisheries, University of Kerala, Karyavattom under UGC-DS KOTHARI-Post-Doctoral Fellow (UGC-DSK-PDF)

Fellowships awarded

1. **UGC-DS Kothari-Post-Doctoral Fellowship** (UGC DSK-PDF) offered by University Grants Commission, New Delhi.
2. **Post-Doctoral Fellowship** (PDF), offered by Zoological Survey of India (ZSI), Ministry of Environment & Forests, Govt. of India, M Block, New Alipore Kolkata-700 053 (July 2016 onwards)
3. **Senior Research Fellowship**, NSPAAD Project, Aquatic Animal Health and Environment Division, **ICAR-Central Institute of Brackishwater Aquaculture (CIBA)**, 75 Santhome High Road, Chennai - 600 028 (03/03/2016 – 01/07/2016).
4. **Junior Research Fellowship**, RKVY Project – Coconut, Kerala Agricultural University, College of Agriculture, Padanekkadu (December 2015) E2/2971/2012.
5. Project fellow - **UGC, Major Research Project** (F. No. 38-218/2009(SR) Dated: 24 Dec. 2009) entitled: "**Studies on growth and reproduction of *Pseudocycnus* sp. a crustacean parasite infecting on fishes of Malabar**" under the principal investigator ship of Dr. Sudha K., Associate Professor, P. G. Dept. of Zoology & Research Centre, Sree Narayana College, Kannur (February 2010 – January 2013).
6. **Junior Research Fellowship**, Kannur University (2009 November)

Research Projects:

1. Project Title: ***Diversity, Distribution, and Taxonomy of Parasitic crustaceans infesting the marine fishes of Indian water*** Duration: From **01/11/2017 to 16/10/2017.**
Funding Agency: MoEF & CC, Zoological Survey of India, Kolkata
2. Project Title: ***Diversity, Distribution, DNA Barcoding and Phylogeny of Isopods (Arthropods: Crustacea) parasitizing Commercially valuable marine fishes along the Kerala coast,***
Duration: **01/11/2017 to 31/10/2020**
Funding Agency: University Grants Commission

International Collaborators

1. University of Montpellier, Montpellier, France (**Prof. Jean Paul Trillies**)
2. Smithsonian Museum, Australia (**Dr. Niel Bruce**)
3. North West University, South Africa (**Prof. Nico Smit**)
4. North West University, South Africa (**Dr. Kerry Hadifield**)
5. Borneo Marine Research Institute, University Malaysia Sabah, Sabah, Malaysia (**Dr. B. A. Venmathi Maran**)
6. Kagoshima University, Japan (**Dr. Uaeno Daisuki**)

Taxa Described and redescribed/in press:

**1 new family, 2 new genus, 13 new species are described
24 species redescribed**

RESEARCH PUBLICATIONS

a. Research Papers published in International peer reviewed and impact factored Journals

2020

1. **Aneesh P T***, Bruce, N.L., M. Bineesh Nashad, A A Mohamed Hatha. 2020. A new species of parasitic cymothoid of the genus *Renocila* Miers, 1880 (Crustacea: Isopoda) parasitizing the body surface of coral reef fish *Acanthurus triostegus* (Linnaeus) from Andaman Island, India. **Marine Biology Research (IF: 1.39), 1-15.** <https://doi.org/10.1080/17451000.2020.1761028>
2. **Aneesh PT**, AK Helna, A Bijukumar. 2020. New species of *Acanthochondria* Oakley, 1930 and *Chondracanthus* Delaroche, 1811 (Copepoda: Poecilostomatoida: Chondracanthidae) parasitizing marine fishes in Indian coast, with a review on the family Chondracanthidae Milne Edwards, 1840 from India. **Nauplies (IF: 1.39), 28: 1-21.** <https://doi.org/10.1590/2358-2936e2020014>
3. **Aneesh PT**, Helna AK, Kumar AB, Trilles J-P (2020) A taxonomic review of the branchial fish parasitic genus *Elthusa* Schioedte & Meinert, 1884 (Crustacea: Isopoda: Cymothoidae) from Indian waters with the description of three new species. **Marine Biodiversity**(in press). <https://doi.org/10.1007/s12526-020-01084-6>
4. **Aneesh PT** & S Kappalli (2020) Occurrence of Life Cycle Dependent Monophasic and Biphasic Molting in a Parasitic Isopod, *Mothocya renardi*. **Thalassas: An International Journal of Marine Sciences**, p 1-10. Published online 13th Jan 2020. <https://doi.org/10.1007/s41208-019-00188-6> (**IF: 0.54**). **NAAS Score: 6. 54.**

Article in press

5. **Aneesh P T***, A K Helna, A Bijukumar, BAV Maran. A new species of parasitic copepod of the genus *Lernaenicus* Le Sueur, 1824 (Siphonostomatoida: Pennellidae) from the Torpedo scad *Megalaspis cordyla* (Linnaeus) off Kerala coast, India. *Under revision in Zoosystema (IF: 0.89).*
6. **Aneesh PT**, NL. Bruce, AB Kumar, Bincy MR, TM Sreenath. A taxonomic review of the buccal-attaching fish parasite genus *Lobothorax* Bleeker, 1857 (Crustacea: Isopoda: Cymothoidae) with description of a new species from southwestern India.
7. **Aneesh P. T.*** K. A. Hadfield' Nico Smith' A. Biju Kumar. Morphological and molecular assessment of four closely related species of *Anilocra* Leach 1818 (Crustacea: Isopoda: Cymothoidae) with the description of a new species *Anilocra kerala* sp. nov parasitizing the clupeid fish *Tenualosa*

toli (Valenciennes) from the Kerala coast, India. in *Parasitology Research* (IF: 1.65).

8. **Aneesh PT***; K. A. Hadfield· N. J. Smith Niel Bruce, A. Biju Kumar. A new genus and species of fish parasitic cymothoid isopod (Crustacea) from Indian waters, with a key to the branchial-attaching cymothoid genera *Folia Parasitologia* (Under revision) (IF. 1.6).

2019

9. **Aneesh PT***, A K Helna, A Bijukumar. 2019. Redescription and neotype designation for the poorly known fish parasitic cymothoid *Joryma brachysoma* (Pillai, 1964) (Crustacea: Isopoda) from India. *Folia Parasitologica*, 66(014), 1-6. (IF: 1.43).
10. **Aneesh PT***, Valarmathi K., Santanu M. 2019: Redescription of *Nerocila recurvispina* Schiödte and Meinert 1881: (Crustacea: isopoda) from the Hooghly River, Kolkata, India. *Marine Biodiversity*. 49: 301-313. <https://doi.org/10.1007/s12526-017-0799-8>. (Impact Factor: 2.077).
11. **Aneesh PT***, Helna A.K., Trilles J.P., Chandra K. 2019. Occurrence and redescription of *Anilocra leptosoma* Bleeker, 1857 (Crustacea: isopoda: Cymothoidae) parasitizing the clupeid fish *Tenualosa toli* (Valenciennes) from the Arabian Sea, India. *Marine Biodiversity*. 49:443–450. <https://doi.org/10.1007/s12526-017-0828-7> (Impact Factor: 2.077).
12. **Aneesh PT***, AK Helna, JP Trilles, K Chandra. 2019. A taxonomic review of the genus *Joryma* Bowman and Tareen, 1983 (Crustacea: Isopoda: Cymothoidae) parasitizing the marine fishes from Indian waters, with a description of three new species. *Marine Biodiversity* 49:1449–1478. <https://doi.org/10.1007/s12526-018-0920-7> (IF: 2.077).

2018

13. **Aneesh PT***, A K Helna, A Bijukumar, BAV Maran (2018). Redescription of *Lernaenicus stromatei* Gnanamuthu, 1953 (Copepoda: Siphonostomatida: Pennellidae) infesting the Black Pomfret *Parastromateus niger* (Bloch) from Indian waters. *Zootaxa*, 4482 (2): 375-382 (IF: 1.00). NAAS Score: 7.29
14. **Aneesh PT**, AK Helna, K Sudha, G Anilkumar (2018). *Agarna malayi* Tiwari 1952 (Crustacea: Isopoda: Cymothoidae) parasitising the marine fish, *Tenualosa toli* (Clupeidae) from India: re-description/description, life cycle and pattern of parasitic occurrence in *Zoological Studies*, 57: 25 (2018) doi:10.6620/ZS.2018.57-25 (IF: 1.008). NAAS Score: 7.008.
15. Helna AK, K Sudha, **Aneesh PT**, and G Anilkumar (2018). *Caligus cybii* (Caligidae, Copepoda) parasitising the commercially exploited seer fish, 2 *Scomberomorus commerson*, from the Malabar Coast (India) - occurrence and adaptations. *Turkish Journal of Fisheries and Aquatic Sciences*. 18(3) 445-455 DOI: 10.4194/1303-2712-v18_3_10 (IF: 0.566), NAAS Score: 6.6. 18(3),445-455,ISSN: 1303 - 2712 E-ISSN: 2149 - 181X,2018

2017

16. **Aneesh PT***, AK Helna, K Valarmathi, K Chandra, M Santanu (2017) Redescription of *Nerocila exocoeti* Pillai, 1954 (Crustacea: Isopoda: Cymothoidae) parasitic on beloniform (Exocoetidae and Hemiramphidae) hosts with *Nerocila madrasensis* Ramakrishna & Ramaniah, 1978 placed into synonymy. *Zootaxa* on 23/11/2017. (IF: 1.00). NAAS Score: 6. 972. Zootaxa,4356(3),385-394,ISSN 1175-5326 (Print Edition) & ISSN 1175-5334
17. **Aneesh PT**, AK Helna, K Sudha, and G Anilkumar (2017) First record of *Glossobius auritus* Bovallius 1885 and *Glossobius hemiramphi* Williams and Williams 1985 (Crustacea: Isopoda: Cymothoidae) parasitizing the marine fishes from Indian Coast **Thalassas: An International Journal of Marine Sciences**. Published online: 10/10/2017, DOI: 10.1007/s41208-017-0050-1 (IF: 0.54). NAAS Score: 6. 54. 34,173–189,Electronic ISSN 2366-1674 Print ISSN 0212-5919,2018

2016

18. **Aneesh, P. T.**, K. Sudha, A. K. Helna and G. Anilkumar (2016) *Mothocya renardi* (Bleeker, 1857) (Crustacea: Isopoda: Cymothoidae) parasitising *Strongylura leiura* (Bleeker) (Belonidae) off the Malabar coast of India: Redescription, occurrence and life-cycle.

Systematic Parasitology, 93(6), 583-599. DOI 10.1007/s11230-016-9646-8. (IF: 1.336) NAAS Score: 7.34, id. S076

19. Helna A. K., K. Sudha, **Aneesh P. T.**, Wojciech Piasecki and G. Anilkumar (2016). A case of persisting massive infection of *Scomberomorus commerson*, a commercially exploited scombrid fish, with *Cybicola armatus* (Copepoda: Siphonostomatoida: Pseudocycnidae). *Acta parasitologica*, 61(4) 836-848. DOI: 10.1515/ap-2016-0116. (IF: 1.293). NAAS Score: 7.29, id. A025

2015

20. **Aneesh, P. T.**, K. Sudha, A. K. Helna, G. Anilkumar, and J. P. Trilles (2015) *Cymothoa frontalis*, a cymothoid isopod parasitizing the belonid fish, *Strongylura strongylura* from the Malabar coast (Kerala, India) :redescription, prevalence and life cycle. *Zoological Studies*, 54:42. Doi:10.1186/s40555-015-0118-7. (IF: 1.008). NAAS Score: 7.008, id. Z009
21. Arshad, K. Sudha, A. A. Mohamed Hatha, **P. T. Aneesh**, A. K. Helna and G. Anilkumar (2015) Effect by Gamma Irradiation and Low Temperature Storage on Bacteriological Profile of Edible Estuarine Crab *Scylla serrata*. *Journal of Food Processing and Preservation*. 39, 2473–2484 (IF: 1.159). NAAS Score: 7.16, id. J205.
22. **Aneesh P. T.**, A. K. Helna and K. Sudha (2015) Branchial Cymothoids Infesting the Marine Food Fishes of Malabar Coast. *Journal of Parasitic Diseases*, Published online: 28/02/2015, DOI 10.1007/s12639-015-0666-0. NAAS Score: 4.65, id. J335

2014

23. **Aneesh, P. T.**, K. Sudha, A. K. Helna, G. Anilkumar, and J. P. Trilles (2014) Multiple parasitic crustacean infestation on belonid fish *Strongylura strongylura*. *ZooKeys* 457: 339–353. doi: 10.3897/zookeys.457.6817. (IF: 1.031). NAAS Score: 7.031, id. Z006 .

2013

24. Helna A. K., **Aneesh P. T.**, Arshad K., Sudha K. (2013) Occurrence of *Caligus* sp. a parasitic copepod (Crustacea) infesting the commercially exploited fishes along the Malabar coast. *Journal of Basic and Applied Biology*. Vol. 7, No.3, 2013, pp. 28-30.
25. **Aneesh P.T.**, Sudha K., Helna A.K., Arshad K., Anilkumar, G. and Trilles J.P. (2013) Simultaneous multiple parasitic crustacean infestation on banded needlefish, *Strongylura leiura* (Belonidae) from the Malabar Coast, India. *International Journal of Scientific and Research Publications*. 3(7) 367-375. (IF: 2.07)
26. **Aneesh P.T.**, Sudha K., Arshad K., Anilkumar, G. and Trilles, J.P. (2013) Seasonal fluctuation of the prevalence of cymothoids representing the genus *Nerocila* (Crustacea, Isopoda), parasitizing commercially exploited marine fishes from the Malabar Coast, India. *Acta parasitologica*, 58(1), 80-90. (IF: 1.293). NAAS Score: 7. 293, id. A025

2012

27. Arshad Keethadath, Sudha Kappalli, A. A. Mohamed Hatha, **P.T. Aneesh**, A. K. Helna and G. Anilkumar (2012) Comparative Assessment of microbial load of the dose depended irradiated crab meat under cold preservation. *Journal of Biotechnology & Biomaterials* 2012 2:6 – 314 (Special issue Proceedings of 3rd world congress on Biotechnology being held at HICC, Hyderabad, India during September 13-15, 2012.).

b. Book/ Edited Books

28. Pramod, KRB, **Aneesh PT**, AB Kumar (2020) Editors of Book of Abstracts, International Conference on Rivers for Future (RFF 2020), Department of Aquatic Biology and Fisheries, University of Kerala, Thiruvananthapuram, India, 5th to 7th February, 2020. p148

c. Articles published in Book chapters

29. Marimuthu N.*, **P.T. ANEESH*** and K. Paamasivam* (2020) Stomatopods. In: *Faunal Diversity of Biogeographic Zones : Coasts of India : 1-8. (Published by the Director, Zool. Surv. India, Kolkata)*

d. Articles published in Proceedings

30. **Aneesh, P. T.**, K. Sudha, A. K. Helna and G. Anilkumar. 2016. New geographical record and new host record of four species of cymothoids (Crustacea, Isopoda, Cymothoidae) infesting the marine fishes off Malabar Coast, India. In *Proceedings of National seminar, Madhura Kamaraj University, T.N, India.*
31. Helna A. K., **Aneesh P. T.** and K. Sudha (2016). Parasitization By Caligids (Crustacea, Copepoda) On The Commercially Exploited Scombrid Fish Species Along The Malabar Coast. In *Proceedings of National seminar, Madhura Kamaraj University, T.N, India.*
32. **Aneesh P. T.**, Sudha Kappalli , Helna A. K., Arshad K., Anilkumar G. 2012. Infestation of Parasitic copepods on Black Pomfret, *Parastromateus niger* (Carangidae) from the Malabar Coast, India. In *Proceedings of National Conference on Aquatic Animal Health and Management M-2012, 14-15 Sept. 2012. P 48-49.*
33. Sudha K., **Aneesh P. T.**, Helna A. K., Arshad K., Anilkumar G. 2012. Parasitic copepods belonging to the genus *Lernathropus* De Blainville 1822, parasitizing the edible marine fishes from the Malabar Coast, India. In *Proceedings of National Conference on Aquatic Animal Health and Management - M-2012, 14-15 Sept. 2012.*
34. Helna A.K., Sudha K., **Aneesh P.T.**, Arshad K., Anilkumar G. 2012. Diversity of *Bomolochus* sp. (Copepoda, Bomolochidae) infesting the edible marine Fishes along the Malabar Coast. In: *Proceedings of National Conference on Aquatic Animal Health and Management -2012(NCAAHM - 2012), 14-15 September, 2012. Centre of Advanced Study in Marine biology, Annamalai University, Parangipettai, 52-53.*
35. **Aneesh P. T.**, Helna A. K., Sudha K., Arshad Keethadath., and Anilkumar G. 2012. Diversity of Parasitic copepods infesting the Fishes of Malabar. In *Proceedings of National seminar on Faunal Diversity of Kerala. 23-24 march 2012.*
36. **Aneesh P.T.**, Sudha, K., A. Keethadath, Helna A. K , G. anilkumar, Jean-Paul Trilles. 2012. Female reproductive system of *Mothocya renardi* (Bleeker, 1857), a protandrically hermaphroditic cymothoid Parasitizing the slender needlefish. In *Proceedings of 99th Indian Science Congress held at Bhubaneswar 2- 6 jan. 2012. P 81.*
37. Arshad Keethadath., Sudha K, **Aneesh P. T.**, Helna A.K., Anilkumar G. 2011. Combined effect of dose-depended electron beam irradiation and cold storage on the lipid profile of the mud crab meat. In *Proceedings of 99th Indian Science Congress being held at Bhubaneswar. 2- 6, Jan. 2012. P 81.*

e. Papers published in Abstract volume of National/International Symposia/Conference

i. International

38. **Aneesh, P.T.**, Helna, A. K., Sudha Kappalli and Anilkumar G. **2015.** Prevalence and host specific occurrence of *Mothocya renardi* (Crustacea, Isopoda, Cymothoidae) parasitizing the belonid fish *Strongylura leiura* from the Malabar coast (Kerala, India). **In:** Joint Mid-Year Meeting of The Crustacean Society and International Association of Astacology, The Crustacean Society, Australian Museum, Sydney 19-23 July 2015.
39. Helna, A. K., **Aneesh, P.T.**, Sudha Kappalli and Anilkumar G. **2015.** Occurrence and adaptations of a pseudocycnid parasite *Cybicola armata* (Crustacea, Copepoda) parasitizing the commercially exploited fish *Scomberomorus commerson* (Scombridae) along the Malabar Coast, India. **In:** Joint Mid-Year Meeting of The Crustacean Society and International Association of Astacology, The Crustacean Society, Australian Museum, Sydney 19-23 July 2015.

40. **Aneesh, P.T.**, Helna, A. K. and Sudha Kappalli. 2013. Infestation by Lernaepodid (Copepoda, Siphonostomatoida) parasites on edible marine fishes along the Malabar Coast. *In: International Conference on Ecosystem Conservation, Climate Change and Sustainable Development (ECOCASD 2013) 3-5 October 2013. Organized by Department of Aquatic Biology & Fisheries, University of Kerala, Thiruvananthapuram, India and Directorate of Environment & Climate Change, Govt. of Kerala.* P- 386
41. Helna A. K., **Aneesh, P.T.** and Sudha Kappalli. 2013. Lernathropid infestation on commercially exploited marine fishes along the Malabar Coast. *In: International Conference on Ecosystem Conservation, Climate Change and Sustainable Development (ECOCASD 2013) 3-5 October 2013. Organized by Department of Aquatic Biology & Fisheries, University of Kerala, Thiruvananthapuram, India and Directorate of Environment & Climate Change, Govt. of Kerala.* P- 389.
42. **Aneesh P.T.**, Sudha Kappalli, Helna A Kottarathil, Arshad Keethadath, Anilkumar Gopinathan and Jean-Paul Trilles. (2013) Occurrence of Multiple Parasitic Crustacean infestation on banded needlefish from the Malabar Coast, India. Summer Meeting of The Crustacean Society (TCS) jointly organized with the Latin American Association of Carcinology (ALCARCINUS) held at San-Jose, Costa Rica during 07-11 July 2013.
43. Arshad Keethadath., Sudha K., **Aneesh P. T.**, Helna A. K., Anilkumar G (2011). DNA fragmentation in irradiated tissues-a comet assay study. International Symposium on Environmental Risk Assessment 2011. 17-19 Oct2011, Bharathiar University, India.
44. **Aneesh P.T.**, Sudha, K., Arshad Keethadath, Helna A. K., G. Anilkumar, and Jean-Paul Trilles. 2011. First host record, *Strongylura strongylura* (Belonidae) for a parasitic cymothoid, *Cymothoa frontalis* Milne Edward, 1840 from the Malabar Coast of India. In International Symposium on Environmental Risk Assessment 2011. Bharathiar University, 17-19 Oct. 2011.
45. Helna A. K., **Aneesh P. T.**, Arshad Keethadath., Sudha K., and Anilkumar G. 2011. Reproductive system of *Pseudocycnus armatus*, a parasitic copepod infesting the seerfish, *Scomberomorus guttatus*. In International Symposium on Environmental Risk Assessment 2011. Bharathiar University, 17-19 Oct. 2011.
46. Sudha Kappalli., **Aneesh P.T.**, Helna A. K., Arshad K., Anilkumar. A Host specific parasitic copepod *Pseudocycnus armatus* infesting Spotted seer fish distributed along the Malabar Coast. In 8th symposium on Diseases in Asian aquaculture being held at Mangalore on 21-25 Nov. 2011.
47. Kappalli, S., **Aneesh, P.T.**, Keethadath, A. & Gopinathan, A. Studies on a Parasitic Copepod infesting edible seer fish population (*Scomberomorus guttatus*) of Malabar (Kerala, India). In VIII International Symposium of Fish Parasites hold at Vina del Mar, Chili during 26-30 September 2011.

ii. National

48. **Aneesh P. T.** & A.B. Kumar (2020) A taxonomic review of the branchial cymothoid genus *Joryma* Bowman & Tareen 1983 (Crustacea: Isopoda: Cymothoidae) parasitizing the marine fishes from Indian Waters ” In *Annual National Conference on Sustainable Ecosystem, Aquaculture, Fisheries and Fisherfolk* Organized by Dept. of Aquatic Biology & Fisheries, University of Kerala, Thiruvananthapuram, held during 9th & 10th January 2020.
49. **Aneesh P. T.**, Helna A. K, Sudha K. (2015). Seasonal fluctuation in the prevalence of cymothoids belongs to the genus *Nerocila* (Crustacea; Isopoda), parasitizing Indian edible marine fishes from the Malabar Coast. In the abstract volume of National Conference on Recent Advances in Animal Sciences, Dept. of Zoology, Mangalore University, during 13-15 February 2015, p - 96.
50. **Aneesh P.T.**, Helna A.K., Sudha K. (2015). Host-parasite interaction of *Cymothoa frontalis* (Crustacea, Isopoda, Cymothoidae), parasitizing the belonid fish, *Strongylura strongylura* from the Malabar coast (Kerala, India). In the abstract volume of National Conference on Recent Advances in Animal Sciences, Dept. of Zoology, Mangalore University, during 13-15 February 2015, p – 98

51. Helna A.K. **Aneesh P.T.**, Sudha K.(2015). Occurrence of Multiple Parasitic crustacean infestation on belonid fish *Strongylura strongylura*. In the abstract volume of National Conference on Recent Advances in Animal Sciences, Dept. of Zoology, Mangalore University, during 13-15 February 2015, p - 97.
52. Helna A. K., Sudha K., **Aneesh P. T.**, and Anilkumar G. 2013. Parasitic crustaceans – host specific parasitization in Scombridaen fishes of Malabar Coast. *In* Biological conference 2013, University of Calicut, March 11-13, 2013. P- 37-38.
53. Arshad K., Sudha K., **Aneesh P. T.**, Helna A. K., Anilkumar G. 2013. Effect of Dose-dependent electron beam irradiation and cold storage on the nutrient value of the crab meat. *In* Biological conference 2013, University of Calicut, March 11-13, 2013. P- 36-37.
54. **Aneesh P.T.**, Sudha, K., A. Keethadath, Helna A. K , G. Anilkumar, Jean-Paul Trilles. 2011. *Mothocya renardi* (Bleeker,1857), a parasitic cymothoid Parasitizing the Banded needlefish, *Strongylura leiura* (Belonidae) from the Malabar Coast, India. In 9th Indian Fisheries Forum hold at Chennai on 19-23 Dec. 2011.
55. **Aneesh P.T**, K. Sudha, Arshad K., G. Anilkumar, J.P.Trilles (2011) Studies on the occurrence of *Norileca indica* (Milne Edwards), a parasitic cymothoid, parasitizing the Indian mackerel, *Rastrelliger kanagaruta* (Scomberidae) from the Malabar coast of Kerala. Abstract volume of National conference on emerging trends in Biological research, Chennai
56. **Aneesh P.T**, K. Sudha, Arshad K., G. Anilkumar, Jean Paul Trilles (2011) Parasitic isopod belonging to the genus *Nerocila* parasitizing edible marine fishes from the Malabar coast, India, Proceedings of 23rd Kerala Science Congress, Thiruvananthapuram.
57. **Aneesh P.T**, K. Sudha, Arshad K., G. Anilkumar, Jean Paul Trilles (2010) Parasitic isopod parasitizing edible marine fishes from Malabar coast, India Proceedings of 20th Swedeshi Science Congress, CMFRI, Kochi.

Paper presented/delivered invited talk in National / International symposia

a. Invited talk

1. Delivered a lecture on “**Parasitic Crustaceans Infesting the Marine Fishes From Indian Waters: Taxonomy, Physiology of Growth and Reproduction, Host-Parasite interaction**” in the Publication Day meeting of Water Research Group (WRG), North West University: Potchefastroom, 2520, South Africa on 1st February 2019.

b. Presented -International

2. A paper a paper entitled “Prevalence and host specific occurrence of *Mothocya renardi* (Crustacea, Isopoda, Cymothoidae) parasitizing the belonid fish *Strongylura leiura* from the Malabar coast (Kerala, India)”. *In* Joint Mid-Year Meeting of The Crustacean Society and International Association of Astacology, The Crustacean Society being held at Australian Museum, Sydney 19-23 July 2015.
3. Presented a paper entitled **Infestation by Lernaepodid (Copepoda, Siphonostomatoida) parasites on edible marine fishes along the Malabar Coast**. *In*: International Conference on Ecosystem Conservation, Climate Change and Sustainable Development (ECOCASD 2013) 3-5 October 2013. *Organized by* Department of Aquatic Biology & Fisheries, University of Kerala, Thiruvananthapuram, India and Directorate of Environment & Climate Change, Govt. of Kerala.
4. Presented a paper entitled **First host record, *Strongylura strongylura* (Belonidae) for a parasitic cymothoid, *Cymothoa frontalis* Milne Edward,1840 from the Malabar Coast of India** in an International Symposium on Environmental Risk Assessment 2011. Bharathiar University. 17-19 Oct. 2011.

c. National

5. Presented a paper entitled “**A taxonomic review of the branchial cymothoid genus *Joryma* Bowman & Tareen 1983 (Crustacea: Isopoda: Cymothoidae) parasitizing the marine fishes from Indian Waters** ” In *Annual National Conference on Sustainable Ecosystem, Aquaculture, Fisheries and Fisherfolk* Organized by *Dept. of Aquatic Biology & Fisheries, University of Kerala, Thiruvananthapuram*, held during 9th & 10th January 2020.
6. Presented a paper entitled “**Host-parasite interaction of *Cymothoa frontalis* (Crustacea, Isopoda, Cymothoidae), parasitizing the belonid fish, *Strongylura strongylura* from the Malabar coast (Kerala, India)**”. In *National Conference on Recent Advances in Animal Sciences*, Dept. of Zoology, Mangalore University, during 13-15 February 2015, p – 98
7. Presented a paper entitled. **Infestation of Parasitic copepods on Black Pomfret, *Parastromateus niger* (Carangidae) from the Malabar Coast, India**. In *National Conference on Aquatic Animal Health and Management M-2012*, 14-15Sept. 2012.
8. Presented a paper entitled ***Mothocya renardi* (Bleeker,1857), a parasitic cymothoid Parasitizing the Banded needlefish, *Strongylura leiura* (Belonidae) from the Malabar Coast, India**. In 9th Indian Fisheries Forum hold at Chennai. 19-23 Dec. 2011.
9. Presented a paper entitled **Studies on the occurrence of *Norileca indica* (Milne Edwards), a parasitic cymothoid, parasitizing the Indian mackerel, *Rastrelliger kanagurta* (Scomberidae) from the Malabar Coast of Kerala** in *National conference on emerging trends in Biological research*, University of Madras, Chennai.
10. Presented a paper entitled **Diversity of Parasitic copepods infesting the Fishes of Malabar**. In *National seminar on Faunal Diversity of Kerala*. 23-24 march 2012.
11. Presented a paper entitled **Parasitic isopod belonging to the genus *Nerocila* parasitizing edible marine fishes from the Malabar coast, India**, in 23rd Kerala Science Congress, Thiruvananthapuram.
12. Presented a paper entitled **Parasitic isopod parasitizing edible marine fishes from Malabar coast, India** in 20th Swedeshi Science Congress, CMFRI, Kochi.

Workshop/ short training/symposia/conferences/seminars Participated

1. National workshop on ***Integrative Taxonomy of Freshwater Fishes***. Kerala University of Fisheries and Ocean Studies, Panangad, Kochi. 1st to 4th Dec. 2015.
2. National Conference on ***Recent Advances in Animal Sciences***, Dept. of Zoology, Mangalore University, during 13-15 February 2015.
3. **27th Kerala Science Congress**, Alapuzha, Jan 27-29 2015.
4. Participated in two days ***Orientation programme for academic councilors***, IGNOU Regional Center, Vatakara, during 13-14, Aug. 2014.
5. Played a commendable role as a member for organizing UGC sponsored ‘***Seminar on Technological Advances in Modern Biology***’ organized by Post Graduate Dept. of Zoology & Research Centre, Sree Narayana College, Kannur during 2014, March 13-14.
6. Played a commendable role as a member for organizing ***INSPIRE Internship Science Camp launched by Department of Science and Technology***, Government of India at Sree Narayana College, Kannur, Kerala, India during December 23-28, **2013**.
7. Participated in the “***Science Academies’ Lecture Workshop on Cell Differentiation in the Context of Cancer and Stem Cell Biology***” from 8th & 9th October 2013. Sponsored by IAS, INSA & NAS. Organized by Chinmaya Arts & Science College for women, Chala, Kannur.
8. International Conference on Ecosystem Conservation, Climate Change and Sustainable Development (ECOCASD 2013) 3-5 October 2013. *Organized by* Department of Aquatic Biology & Fisheries, University of Kerala, Thiruvananthapuram, India and Directorate of Environment & Climate Change, Govt. of Kerala.
9. Played a commendable role as a member for organizing ***INSPIRE Internship Science Camp, launched by Department of Science and Technology***, Government of India at Sree Narayana College, Kannur, Kerala, India during December 23-28, **2012**.
10. National Conference on Aquatic Animal Health and Management M-2012, organized by CAS in Marine Biology, Annamalai University. 14-15 September 2012.

11. National seminar on Faunal Diversity of Kerala. Organized by Department of Zoology PRNSS College, Mattanur, 23-24 march 2012.
12. **9th Indian Fisheries Forum** hold at Chennai. 19-23 Dec. 2011.
13. **8th symposiums on Diseases in Asian aquaculture** hold at Mangalore on 21-25 Nov. 2011.
14. International Symposium on Environmental Risk Assessment 2011. Bharathiar University. 17-19 Oct. 2011.
15. Played a commendable role as a member for organizing **INSPIRE Internship Science Camp** launched by **Department of Science and Technology**, Government of India at Sree Narayana College, Kannur, Kerala, India during May 21-26, **2011**.
16. Played a commendable role as a member for organizing Inspire Internship Science Camp launched by Department of Science and Technology, Government of India at Sree Narayana College, Kannur, Kerala, India during May 21-26, 2011.
17. **23rd Kerala Science Congress**, Thiruvananthapuram Feb 2011.
18. Participated in the “**Short Term Course for Research Methodology in Science** from 16/08/2010-19/08/2010. Sponsored by UGC and Academic Staff College, Kannur University
19. **20th Swadeshi Science Congress**, CMFRI, Kochi
20. Seminar on “**Human Genome Study: Impacts and Implications**” held on 05/06/2010. Organized by Dept. of Molecular Biology, Dr. P.K. Rajan memorial campus , Nileshwaram.
21. National Symposium on “**Recent Immunological Advancement in HIV & Opportunistic Infections**” “ Organized by Annamalai University ,Chidambaram, T.N. Sponsored by **DBT & CSIR New Delhi** During 24th -25th March 2007
22. National Seminar on “**Bioinformatics & Computational Biology** “Organized by Annamalai University, Chidambaram, T.N. Sponsored by DBT & CSIR New Delhi, during 21th-22th March 2007.
23. Participated in National Seminar on Trends Problems and Prospects of Industries in India under the Agenda of reforms. Sree Narayana College Kannur, March 2010.
24. Participated in the ‘**Nature Education Camp**’ organized by **Kerala Forest & Wild Life Department** at Chinnar Wild Life Santuary .from 18/01/05 to 20/01/05.
25. Participated in **National conference on emerging trends in Biological research**, Dept. of Zoology, University of Madras, Chennai. March 2011. March 2011.

Training Obtained:

1. Training obtained from North west University, **South Africa** – 1 month on Molecular and classical taxonomy.
2. “*International Workshop on Modern Techniques for Molecular and Morphological Characterization of Crustaceans*” held on 25 June – 6 July– reg (two weeks).
3. Hands on training programme on ‘*Molecular Techniques for Identification of Crustaceans*’ held at RGCA, Sirkali, TN
4. Training Workshop on ‘*Modern Approaches in Biodiversity Studies*’ held at **Zoological Survey of India, Kolkata**
5. National level Training workshop on *Integrative Taxonomy of Freshwater Fishes*. Kerala University of Fisheries and Ocean Studies, Panangad, Kochi. 1st to 4th Dec. 2015.
6. *Orientation programme for academic councilors*, **IGNOU** Regional Center, Vatakara, during 13-14, Aug. 2014.
7. *Science Academies’ Lecture Workshop on Cell Differentiation in the Context of Cancer and Stem Cell Biology* from 8th & 9th October 2013. Sponsored by IAS, INSA & NAS. Organized by Chinmaya Arts & Science College for women, Chala, Kannur
8. **Short Term Course for Research Methodology in Science** from 16/08/2010-19/08/2010. Sponsored by UGC and Academic Staff College, Kannur University

Membership of Professional/Academic bodies:

1. **Linz Zoocode Committee**
2. **Indian Science Congress**
3. **World Association of Copepodologist**
4. **SEEK (Society for Environmental Education in Kerala)**

5. Editorial board member in **Journal of Scientific Agriculture (JSA) - ISSN: 2184-0261**
6. Editorial board member in **American Journal of Zoology** (21st September 2018 onwards).
7. Assistant editor in Journal of Aquatic Biology & Fisheries.

Reviewer of International Journals

1. **Thalassess An International Journal of Marine Sciences (Springer)**
2. **Marine Biodiversity (Springer)**
3. **PeerJ**
4. **International Journal of Parasitology, Parasite & Wild life (Elsevier)**
5. **Journal of Parasitic Diseases (Springer)**
6. **Species Diversity (Japan)**
7. **Zootaxa**
8. **Zoological Studies**
9. **Indian Journal of Geo-marine Science**
10. **Crustacean Research**

Details of Practical Experience in Biological Techniques:

a. From Sree Narayana College, Kannur (Kannur University)

1. Microtomy
2. Histology and Histochemistry
3. Biochemical methods for quantitation of protein, Lipid and carbohydrates.
4. Microscopy: Simple, Compound, Stereo and Fluorescent Microscopy.
5. Electrophoresis and Chromatography.
5. Statistics : Statistical Test like ANOVA, t-test, z-test, Tukey's test etc. using software such as Graphpad, R-Studio and MS Excel and interpretation of results.
6. Zoology : Taxonomy of metazoan groups such as Insects, Parasitic Crustaceans infesting the fishes, free living Crustaceans (Crabs, Shrimps, etc), Marine, estuarine and freshwater fishes.
7. Botany : Taxonomic identification of Medicinal plants and other herbs, shrubs and tree species of Kerala

b. From NIMHANS Bangalore

1. Electron Microscopy - Sample processing and ultra-microtomy for Transmission Electron Microscopy

d. From ICAR-Central Institute of Brackishwater Aquaculture (CIBA), Chennai

1. Molecular Biology: Extraction of Nucleic acids (DNA & RNA), PCR, nested PCR, RT-PCR, Colony PCR, Quantification of Nucleic acids, Purification of DNA.
2. Electrophoresis.
3. Gel documentation and Gel elution.
4. Detection of bacterial, Viral and Parasitic diseases in cultural systems by PCR method.
5. Extraction of Nucleic acids from Soil samples.
6. Histopathology
7. Microbiology

e. From Zoological Survey of India, Kolkatta

- a. Electron Microscopy – Scanning Electron Microscopy
- b. Microscopy – Multi focusing microscopes
- c. Taxonomy _ DELTA
- d. Taxonomic illustrations and Digital inking

f. from North west University, South Africa

- a. Taxonomy _ DELTA
- b. Taxonomic illustrations and Digital inking

c. Molecular taxonomy of parasitic cymothoids

g. **Computer Proficiency:** MS Office, Statistical Tools (R-Studio, Graphpad), Photoshop, Coral-draw, Adobe Illustrator etc.

h. **Micro/macro photography**

i. **Teaching/Research/Administrative experiences**

1	Research	Post - Doctoral level	Department of Aquatic Biology & Fisheries University of Kerala, Karyavattom Thiruvananthapuram-695 581, Kerala, India UGC-DS Kothari Post-Doctoral Fellow	01/11/2017 onwards		
			Water Research Group, North west University, Poachfastroom Campus, South Africa as an Invited Fellow	24/01/2019 To 22/02/2019	1 month	
			Zoological Survey of India (ZSI) Ministry of Environment & Forests Govt. of India M Block, New Alipore Kolkata as Post-Doctoral Fellow	05/07/2016 to 16/10/2017	1 year, 3 months, 11 days	
			ICAR-Central Institute of Brackishwater Aquaculture (CIBA), Chennai as Senior Research Fellow	03/03/2016 to 30/06/2016	4 months	
			Sree Narayana College, Kannur, Kerala	22/10/2014 to 27/02/2016	1 year & 4 months	
	Doctoral level	Sree Narayana College, Kannur, Kerala	19/11/2009 to 21/10/2014	4 years & 11 months		
2	Teaching					
	<i>High School level</i>		GHSS Mathamangalam, Kannur	18/06/2008 to 25/07/2008	2 months	
			<i>Higher Secondary level</i>	GHSS Paivalike Nagar, Kasaragod (HSST Junior)	28/07/2008 to 27/02/2009	1 Academic year
				GHSS Bellur, Kasaragod (HSST Junior)	14/08/2008 to 27/02/2009	
				GHSS Mulleria, Kasaragod (HSST Junior)	10/11/2008 to 28/02/2009	
				ST. Joseph's HSSS Cherupuzhia, Kannur	01/06/2009 to 13/11/2009	6 months
	GHSS Maloth Kasaba, Kasaragod	01/06/2014 to 11/07/2014	2 months			
<i>PG & UG level</i>	Sree Narayana College, Kannur	Guest Lecturer	14/07/2014 to 31/03/2015	1 Academic year		
<i>UG level</i>	Nehru Arts & Science College, Kanhangad	Guest Lecturer	30/07/2015 to 27/11/2015	4 months		
3	Administrative	IGNOU, Study Centre , 1405 – Sree Narayana College, Kannur as Assistant Co-ordinator	5 th November 2012 – 28th Feb. 2016	3 year & 3 Months		

Extracurricular activities

1. **NCC** - “A”, “B”, & “C” Certificates holder. Served in **NCC** for Six years and attending 14 camps (1997-1999 in JD & 2002-2005 in SD).
2. Served in **NSS** as an active volunteer during P. G. Course in University Campus, Annamalai University, Chidambaram (2005-207).
3. **Sports – Individual Champion** (Kannur University Dept. of Teacher Education Mananthavady, Annual Sports meet -2008).
4. College Union Leadership (**General Secretary**, Kannur University Dept. of Teacher Education – Mananthavady, 2007-08).
5. Played a commendable role as a member for organizing **INSPIRE Internship Science Camp** launched by **Department of Science and Technology**, Government of India at Sree Narayana College, Kannur, Kerala, India for four consecutive years (2011 May, 2012 December, 2013 December and 2014 December).
6. Played a commendable role as a member for organizing UGC sponsored ‘**Seminar on Technological Advances in Modern Biology**’ organized by Post Graduate Dept. of Zoology & Research Centre, Sree Narayana College, Kannur during 2014, March 13-14.
7. **Supervised 2 Master and 10 undergraduate students for their dissertation.**

I do hereby declare that all the above statements made are true and correct to the best of my knowledge and believe.

Place: Karyavattom

Date: 14/02/2020

Sincerely yours,

(ANEESH P. T.)

References

Dr. A. Biju Kumar

Dean, Faculty of Science

Professor and Head, Dept. of Aquatic Biology & Fisheries

University of Kerala, Thiruvananthapuram 695 581, Kerala, INDIA

Telefax: +91 471 2308131 (Office); +91 9447216157; +91 8921865558 (mobile)

Email: bijupuzhayoram@gmail.com

Dr. Niel L. Bruce

Extraordinary Professor

Faculty of Natural Sciences

Water Research Group-Unit for Environmental Sciences & Management

Potchefstroom Campus

North-West University

Private Bag X6001

Potchefstroom, 2520 -South Africa

Email: niel.bruce@qm.qld.gov.au

Dr. Venmathi Maran, B. A.

Professor

Endangered Marine Species Research Unit,

Borneo Marine Research Institute,

University of Malaysia Sabah,

Kota Kinabalu, Jalan UMS 88400,

Sabah, Malaysia.

E-mail: bavmaran@gmail.com