DUMINDA SENEVIRATHNA

LECTURER
B.SC. SPECIAL (HONS.) / M.PHIL

PERSONAL

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FIND ME ON

EVENTS/UPDATES

AREAS OF EXPERTISE

Zoology, Genetics, Bioinformatics, Molecular Biology and Biotechnology

RESEARCH INTEREST

Functional Genomic Applications, Comparative studies on aquatic biodiversity and identification by molecular techniques, DNA barcoding researches to identify important aquatic organisms, Population genetic studies on aquatic organisms, Database development for aquatic resource management, Biotechnology application to identify value added products in aquatic organisms, Genetic improvement of aquaculture species, Fish breeding practices applying genetic manipulation and biotechnology, Bioremediation studies to control pollution in aquatic ecosystems, Aquaponic technologies to enhance aquatic production, GIS applications to identify aquatic resources

PUBLICATIONS

Full papers

PCB Dias, JDM Senevirathna, NPP Liyanage and H Herath (2018). Development of web application, "Lank fish" to sustain consumption of marine food fish species in Sri Lanka. International Journal of Fisheries and Aquatic Studies. 6(3): 123-127

Thushari, G.G.N., Senevirathna J.D.M., Suchana C. and Amararatne Y. (2017). Effects of Microplastics on Sessile Invertebrates in the Eastern Coast of Thailand: An Approach to Coastal Zone Conservation. Marine Pollution Bulletin. Article in Press. Corrected Proof. Available online 29 July 2017. (doi.org/10.1016/j.marpolbul.2017.06.010).

Senevirathna J. D. M., Gayantha R. L. Kodikara and Munasinghe D. H. N. 2017. Analysis of habitat characteristics of the scalloped spiny lobster *Panulirus homarus* (Linnaeus, 1758) in their home range along the southern coast of Sri Lanka. Indian J. Fish., 64(1): 1-8 (DOI: 10.21077/ijf.2017.64.1.47483-01).

Senevirathna J.D.M., Munasinghe D.H.N. and MatherP.B.2016. Assessment of Genetic Structure in Wild Populations of *Panulirus homarus* (Linnaeus, 1758) across the South Coast of Sri Lanka Inferred from Mitochondrial DNA Sequences. International Journal of Marine Science (doi: 10.5376/ijms.2016.06.0006). Vol. 6, (6). 1-9.

Thushari G.G.N. and SenevirathnaJ.D.M.2016. Synthetic debris as an anthropogenic impact on coastal environment: a review. International Journal of Emerging Technology and Innovative Engineering (ISSN: 2394 – 6598) Vol 2 (2). 84-92.

Munasinghe D.H.N. and Senevirathna J.D.M. 2015. Phenotypic Plasticity and Genetic Variation of Two Wild Populations of Green Tiger Shrimp (*Penaeus semisulcatus* - De Haan, 1844). International Journal of Marine Science, Vol.5, No.5: 1-8.

Senevirathna J.D.M, Thushari G.G.N. and Munasinghe D.H.N. 2014. Length-weight relationship of spiny lobster, *Panulirus homarus* population inhabiting southern coastal region of Sri Lanka. International Journal of Science, Environment and Technology, Vol. 3 (2): 607 – 614.

Senevirathna J.D.M. and Munasinghe D.H.N. 2014. Genetic diversity and population structure of *Panulirus homarus* populations of Southern Sri Lanka and South India revealed by the mitochondrial COI gene region. IICBE 2014 Bangkok, pp 10-13.

Senevirathna J.D.M. and Munasinghe D.H.N. 2013. Identification of Taxonomic Status of Spiny Lobster Species in Sri Lanka Using DNA Barcoding and Its Implications on Fisheries and Conservation Programs. Tropical Agricultural Research, Vol. 25 (1): 96 – 108.

Senevirathna J.D.M. and Guruge W.A.H.P. 2013. Preliminary study to investigate the suitability of vermiwash as an environmentally friendly culture media to enhance plankton productivity. Int. J. Biotech Biosci, ISSN 2231-0304, Vol. 3 (1): 22-28.

Abstracts (recent)

KPUT Egodauyana, PCB Dias, JMDR Jayawardana, JDM Senevirathna and NPP Liyanage 2019. Present status of export trade of endemic and indigenous freshwater ornamental fish species in Sri Lanka. Proceedings of the International Research Conference Uva Wellassa University (IRCUWU-2019). pp 30.

J.D.M. Senevirathna, B.R.M.M.G.K.M. Rathnayaka, G.G.N. Thushari, N.P.P. Liyanage and S.C. Jayamanne (2018). DNA Barcoding of Freshwater Fish Species in isolated Minor Reservoirs of Badulla District in Sri Lanka: First Record of Taxonomic Identification. Proceedings of the South Asian Biotechnology Conference 2018. Pp 89. Presented at the Hilton Colombo Residences in Colombo during March 28-30, 2018.

P. C. B. Dias, J. D. M. Senevirathna1, N. P. P. Liyanage, H. M. U. M. Herath 2017. Dichotomous key for selected marine food fish species in Sri Lanka. Proceedings of the ICFA 2018. Pp 20.

Liyanage N.P.P., Senevirathna, J.D.M. and Thushari G.G.N. (2017). Current Status of Giant Freshwater Prawn: *Macrobrachium rosenbergii* Farming in Sri Lanka: An Overview to the Industry. Proceedings of Giant Prawn Conference - 2017, at Asian Institute of Technology, 20th- 24thMarch 2017.

P.C.B. Dias, J.D.M. Senevirathna, N.P.P. Liyanage and H.M.U.M. Herath (2017). Computer Based Fisheries Management Tool to Sustain Consumption of Marine Food Fish Species in Sri Lanka. Proceedings of the International Research Symposium Uva Wellassa University (IRSUWU-2017). pp 4.

W.A. Withanage, N.P.P. Liyanage, J.D.M. Senevirathna and H.M.U.M. Herath (2017). Morphological Identification Tool for Selected Marine Ornamental Fish Species in Sri Lanka: An Computer Based Approach. Proceedings of the International Research Symposium Uva Wellassa University (IRSUWU-2017). pp 9.

H.M.H.Y. Hitibandaranayake, N.P.P. Liyanage, J.D.M. Senevirathna, G.M.G.M.M. Wickrama and S.C. Jayamanne (2017). Comparison of Morphometric Parameters of Blue Swimming Crabs Collected from Three Areas in Northern Sri Lanka. Proceedings of the International Research Symposium Uva Wellassa University (IRSUWU-2017). pp 5.

Thushari, G.G.N., Chavanich, S.A., Yakupitiyage, A and Senevirathna, J.D.M. (2016). Analysis Of Total Petroleum Hydrocarbon Contamination In Edible Oysters Along Selected Intertidal Regions In Thailand: Coastal Conservation Approach. The 3rdInternational Conference on Fisheries and Aquaculture – 2016. pp 51.

J.D.M. Senevirathna and D.H.N. Munasinghe (2016). Genetic diversity of scalloped spiny lobster (*Panulirus homarus*) populations of southern coast of Sri Lanka. 3rd Ruhuna International Science & Technology Conference. pp 18.

Books/ Book chapters

D.H.N. Munasinghe and J.D.M. Senevirathna 2014. Guide to common edible crustacean species in southern coast of Sri Lanka with DNA Barcoding. ISBN 978-955-41929-0-4.

RESEARCH PROJECTS

Completed

- Morphological and Molecular Taxonomic Investigation of Bohadschia (Sea Cucumber) species in the Sea of Sri Lanka, University of Peradeniya and Uva Wellassa University
- Genetic determination of stock structure of blue swimming crab (*Portunus pelagicus*) in Sri Lanka, Uva Wellassa University
- Assessment of plastic pollution effects in coastal ecosystems of southern province of Sri Lanka, Uva Wellassa University
- Assessment of Impacts of Alien Faunal Species on the Native Aquatic Fauna in Selected Minor Tanks in Badulla District: A Conservational Approach, Biodiversity Secretariat, Ministry of Mahaweli Development and Environment
- Investigation of genetic structure and the habitat structure of commercially important lobster species

Panulirus homarus populations in southern coastal belt of Sri Lanka, University of Ruhuna

AWARDS AND SCHOLARSHIPS

- MEXT Scholarship 2018/2019 - PhD at the University of Tokyo
- UWU Research Award for Scientific Publication in an Indexed Journal, 2018
- Travel Grant awarded to participate a Giant Prawn 2017 AIT, Thailand
- Travel grant awarded to participate IICBE 2014 Bangkok, Thailand
- NSF OSTP Scholarship awarded for an International Training in India – 2013

CAREER HISTORY

Duration		Capacity	Institute
From	To		
2010	2012	Demonstrator	University of Ruhuna, Sri Lanka
2012	2014	Research Assistant	University of Ruhuna, Sri Lanka
2014	2015	Programme Assistant	Asian Institute of Technology. Thailand
2015	Up to date	Lecturer	Uva Wellassa University