



# G.G.N. THUSHARI

SENIOR LECTURER  
B.SC. (UNIVERSITY OF RUHUNA), M.SC., (THAILAND)



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## EVENTS/ UPDATES

## AREAS OF EXPERTISE

- Aquatic Environmental Science
- Zoology

## RESEARCH INTEREST

- Aquatic Environmental Science
- Aquatic Ecology
- Product Development & Value Addition
- Basic Science
- Fish Population Dynamics

## MEMBERSHIPS

### *Committees*

- Team Leader and Member of Curriculum Revision Committee of Animal Science and Aquatic Resources Technology Degree Programme of Uva Wellassa University
- Secretary to the Faculty Handbook Preparation Committee – Faculty of Animal Science & Export Agriculture, Uva Wellassa University
- Member of the working and organizing committee on Agricultural Education, Uva Agricultural Development Forum (UADF)
- Organizing committee member of the International Research Symposium, Uva Wellassa University-2017
- Member of the working and organizing committee of Uva Agricultural Development Forum (UADF)
- Member of Faculty Higher Degree Committee
- Project Coordinator of working committee of AHEAD-ELTA ELSE international project

### *Professional Bodies*

- Member of editorial board, Journal of Agriculture and Value Addition, Uva Wellassa University
- Reviewer to the International Research Conference of Uva Wellassa University - IRCUWU, International Conference on Dry Zone Agriculture- ICDA/ University of Jaffna, International Conference of Fisheries and Aquaculture- ICFA Organized by TIIKM

## PUBLICATIONS

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### Full papers

2018 Kumar S.A., Thushari G.G.N. and Jayasena D.D. (2018). Comparative analysis of morphological characteristics of clam (*Marcia opima*) in Mannar coastal belt, Sri Lanka. *International Journal of Fisheries and Aquatic Studies*, Volume 6 (3), (pp 392-399).

Azhar A.M., Thushari G.G.N., Jayamanne S.C. and Asoka M.D.C. (2018). Production of gelatin from Bigeye tuna (*Thunnus obesus*) skin and characterization of gelatin properties: an alternative to minimize fish waste in tuna fish processing industries in Sri Lanka. *Journal of Agriculture and Value Addition*. Volume 1 (1), (pp 2-10).

Jayamanne S.C., Thushari G.G.N., Liyanage N.P.P. and Abeyrathne I.G.S.N.K. (2018). Study on caviar substitute production using readily available freshwater fish species: *Cirrhinus mrigala* (Hamilton, 1822). *Journal of University of Ruhuna*. 2018, Volume 6 (1), (Pp 46-51).

2017 Thushari, G.G.N., Suchana C. and Amararatne Y. (2017). Coastal debris analysis in beaches of Chonburi Province, eastern of Thailand as implications for coastal conservation, *Marine Pollution Bulletin*, Volume 116 (pp 121-129). <http://dx.doi.org/10.1016/j.marpolbul.2016.12.056>

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*, Volume 124, Issue 1, (pp 349-355). <https://doi.org/10.1016/j.marpolbul.2017.06.010>.

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

Jayamanne S.C., Thushari G.G.N. and Liyanage N.P.P. (2015). Production of simulated caviar using Big-eye Tuna (*Thunnus obesus*) roe: Pilot scale study to promote fish roe based value addition sector in Sri Lanka - published at: "International Journal of Scientific and Research Publications (IJSRP)", Volume 5 (3), March 2015 Edition, (pp 01-06).

Munasinghe D.H.N and Thushari G.G.N.(2014). Length-weight relationship and molecular phylogenetic analysis to infer status of *Uroteuthis duvaucelii* (d'Orbigny 1835) population in the southern coastal region of Sri Lanka, *International Journal of Fisheries and Aquatic Studies*. Volume 2(1), (pp 223-231). Accepted on 29<sup>th</sup> Aug 2014.

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*, Volume 3 (2), (pp 607 – 614).

Thushari G.G.N. and Munasinghe D.H.N., (2010). "Analysis of morphological variation of four populations of *Macrobrachium rossenbergii* (De Man, 1879) (Crustacea; Decapoda) in Sri Lanka". *Ceylon Journal of Science (Biological Sciences)*. Volume 39(1), (pp.53–60). DOI: <http://doi.org/10.4038/cjsbs.v39i1.2353>. Published on 12<sup>th</sup> Oct 2010.

### Abstracts (recent)

2019 Peries M.S.D., Prasadika H.A.K.E., Thushari G.G.N. and Pitawala J.C. 2019. Comparative analysis on morphological variation of 3 populations of *Saccostrea cucullata* (Rock Oysters) and *Crassostrea madrasensis* (Indian Backwater Oyster) (Bivalve:Mollusca) in selected coastal regions of Sri Lanka. Proceedings of International Research Conference of Uva Wellassa University, 7th -9th February 2019.

- Wijethunga H.N.S., Athawuda A.M.G.A.D., Dias P.C.B. , Abeygunawardana A.P., Senevirathna J.D.M., Thushari G.G.N., Liyanage N.P.P. and Jayamanne S.C. 2019. Screening the effects of microplastics on selected invertebrates along southern coastal belt in Sri Lanka: A preliminary approach to coastal pollution control. Proceedings of International Research Conference of Uva Wellassa University, 7th -9th February 2019.
- Wijethunga H.N.S., Dias P.C.B., Abeygunawardana A.P., Senevirathna J.D.M., Thushari G.G.N., and Liyanage N.P.P. 2019. Intertidal macrofaunal and macroalgal diversity in the southern coastal belt of Sri Lanka. Proceedings of 6<sup>th</sup> Ruhuna International Science & Technology Conference, University of Ruhuna, 30<sup>th</sup> January 2019.
- Athapaththu, A.M.A.I.K., Athawuda A.M.G.A.D., Dias P.C.B. , Abeygunawardana A.P., Senevirathna J.D.M., Thushari G.G.N., Liyanage N.P.P. and Jayamanne S.C. 2019. Assessment of Suspended Plastic Levels in Surface Water of Southern Coastal Belt in Sri Lanka. Proceedings of International Research Conference of Uva Wellassa University, 7th -9th February 2019.
- Weerasinghe, K.B.S., Ediriweera T.K., Abeygunawardana A.P., Thushari G.G.N., Liyanage N.P.P. and Jayamanne S.C. 2019. Development of value added products from Tilapia: A preliminary and innovative approach to improve Tilapia fishery sector in Sri Lanka. Proceedings of International Research Conference of Uva Wellassa University, 7th -9th February 2019.
- Leshika D.L., Athawuda A.M.G.A.D., Abeygunawardana A.P., Thushari G.G.N., and Jayamanne S.C. 2019. Development of fish balls using Catla fish (*Catla catla*): Exploration the potential of better utilization of freshwater food fish in Sri Lanka. Proceedings of International Research Conference of Uva Wellassa University, 7th -9th February 2019.
- Sinhakula S.M.B., Rajapaksh, J., Thushari G.G.N. and Guruge K.P.G.K.P. (2018). Impact of Thermocline Variability on Yellowfin Tuna Catch Rates of Sri Lankan Long-Liners. Proceedings of 2<sup>nd</sup> International Research Symposium of Uva Wellassa University.
- Athawuda A.M.G.A.D, Jayasiri H.B., Jayamanne S.C, Weerakoon W.R.W.M.A.P, Guruge K.P.G K.P. and Thushari G.G.N (2018). Quantitative Assessment of Microplastics in Surface Water of West Coast-off Colombo, Sri Lanka. Proceedings of 2<sup>nd</sup> International Research Symposium of Uva Wellassa University.
- Samarasinghe U.S., Thushari G.G.N., Abeygunawardana, A.P., Pitawala H.M.J.C. and Liyanage N.P.P. (2018). Integrated Wastewater Treatment Using Water Hyacinth (*Eichhornia crassipes*) and Blue Swimming Crab (*Portunus pelagicus*) Shell Waste. Proceedings of 2<sup>nd</sup> International Research Symposium of Uva Wellassa University.
- Samarasinghe U.S., Dias P.C.B., Abeygunawardana A.P., Senevirathna J.D.M. and Thushari G.G.N. (2018). Identification the Potential Usage of Giant Salvinia (*Salvinia molesta*) and Blue Swimming Crab (*Portunus pelagicus*) Shell Waste in an Integrated Wastewater Treatment System. Wayamba International Conference (WINC-2018).
- Samarasinghe, U.S., Abeygunawardana, A.P., Senevirathna, J.D.M., Thushari, G.G.N. and Liyanage N.P.P. (2018). Study on applicability of Giant Salvinia (*Salvinia molesta*) and Blue Swimming Crab (*Portunus pelagicus*) shells for heavy metal removal in wastewater, 5<sup>th</sup> International conference on Fisheries and Aquaculture (ICFA-2018).
- Perera, T.O.H, Thushari G.G.N., Senevirathna J.D.M. and Jayamanne S.C. (2018). Study on microplastic accumulation levels in selected invertebrates along western coastal belt of Sri Lanka. 5<sup>th</sup> International conference on Fisheries and Aquaculture (ICFA-2018).
- Senadeera R.P., Thushari G.G.N and Abeygunawardana A.P. (2018). Application of rock oyster shells (*Saccostrea cucullata*) for water quality improvement. SLCARP International Agricultural Research Symposium.

- Athawuda A.M.G.A.D, Jayasiri H.B., Jayamanne S.C, Weerakoon W.R.W.M.A.P, Thushari G.G.N and Guruge K.P.G K.P, (2018). Qualitative and Quantitative Evaluation of Plastics in Surface Water of West Coast, off Colombo, Sri Lanka. International Scientific Session of NARA.
- Jayamanne S.C., Thushari G.G.N., Liyanage N.P.P., and Senevirathne J.D.M. (2017). Investigation of native and introduced fish fauna with water quality characteristics in selected minor tanks of the Badulla district, Proceedings of the National Symposium on Invasive Alien Species, Ministry of Mahaweli Development & Environment, Waters Edge, Battaramulla.
- Ekanayaka P.S.A., Thushari G.G.N., Liyanage N.P.P. and Jayamanne S.C. (2017). Comparative study on processing of Maldivian fish using selected freshwater and marine fish species. Proceedings of International Research Symposium of Uva Wellassa University.
- Abeyrathne T.W.R.R.L., Thushari G.G.N., Senevirathna J.D.M., Liyanage N.P.P. and Jayamanne S.C. (2017). Molecular identification and analysis of taxonomic affinities of fish species in selected minor tanks of Uva province. Proceedings of International Research Symposium of Uva Wellassa University.
- Welgama, W.D.K., Pitawala, H.M.J.C., Thushari, G.G.N., and Jayasena, D.D. (2017). Synthesis and characterization of local bone charcoal and their application in waste water purification. Proceedings of International Research Symposium of Uva Wellassa University.
- Munasinghe D.H.N. and Thushari G.G.N. (2017). Morphological and genetic divergence of two sympatric species: *Macrobrachium srilankense* (Costa 1969) and *Macrobrachium idea* (Heller 1862) in Nilwala River, Matara: Two species or ecotypes? Proceedings of the symposium of the Institute of Biology Sri Lanka, in collaboration with the Biodiversity Secretariat, Ministry of Mahaweli Development of Environment at SLIDA, Colombo.
- 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.
- Thushari G.G.N., Apple S.C., Yakupitiyage A., Salin K.R. (2015). Coastal debris analysis and its impact on intertidal Barnacles in selected regions of Chonburi province, Eastern Thailand: A pilot scale study for coastal conservation. Proceedings in Biodiversity Symposium, Society for Coastal Ecosystems Studies: Asia Pacific, Chulalongkorn University Bangkok, Thailand.
- Abeyrathne I. G. S. N. K., Liyanage N. P. P., Thushari G. G. N. and Jayamanne S.C. (2014). Production of simulated caviar using readily available freshwater fish species: *Cirrhinus mrigala*, 1<sup>st</sup> Ruhuna International Science & Technology Conference: RISTCON 2014, Faculty of Science University of Ruhuna, Matara, Sri Lanka.
- Abeyrathna I.G.S.N.K., Liyanage N.P.P., Thushari G.G.N. and Jayamanne S.C. (2013). Production of imitation caviar using Yellow fin tuna fish species: *Thunnus albacares*: A novel trend in fish roe based value addition sector in Sri Lanka, Proceedings of 4<sup>th</sup> Research Symposium of Uva Wellassa University.
- Azhar A.M., Thushari G.G.N., Jayamanne S.C. and Asoka M.D.C (2013). A study on extracting gelatin from Bigeye tuna (*Thunnus obesus*) skin: An alternative to mammalian gelatin, Proceedings of 4<sup>th</sup> Research Symposium of Uva Wellassa University.
- Gunawardane K.A.D.D.S., Thushari G.G.N., Jayamanne S.C. and Malavige M. (2013). Development of Calcium supplement from the bones of Yellow fin Tuna (*Thunnus albacares*), Proceedings of 4<sup>th</sup> Research Symposium of Uva Wellassa University.
- Rila K.M., Thushari G.G.N., Liyanage N.P.P, Gunasekara A.J.M. and Jayasiri H.B. (2013). Impact of cooling water discharge of coal power plant on marine phytoplankton in Norochcholai coast, Kalpitiya peninsula: A preliminary study, Proceedings of NARA Scientific sessions.

Kumara B.W.V.P.S., Thushari G.G.N., Jayamanne S.C. and Pradeeban S. (2013). Preliminary Study of Salinity Change on Vibrio Count and Gut – Muscle Ratio of *Penaeus monodon* Post Larvae, Proceedings of 4<sup>th</sup> Research Symposium of Uva Wellassa University.

Manjula U.D.P., Jayamanne S.C., Thushari N. and Malawige M., (2012). Development of Fish Glue using Skin of Yellow fin tuna (*Thunnus albacores*) and Mahi - mahi (*Coryphaenidae hippururs*) and Characterization of Glue Properties Proceedings of the Research Symposium of Uva Wellassa University.

Thushari G.G.N. and Munasinghe D.H.N, (2011). “Comparative analysis of major biochemical components of four edible fish species in Sri Lanka: Popularization of alternative protein rich food sources among rural communities”, Proceedings of International Symposium on Agriculture and Environment, University of Ruhuna, Matara.

Thushari G.G.N. and Munasinghe D.H.N, (2010). “Analysis of relative growth patterns and intra-specific morphological variation between two *Macrobrachiumrossenbergii* (De Man, 1879) populations (Class: Crustacea, Family: Palaemonidae) in Sri Lanka”, Sri Lanka. Association for the Advancement of Science, Proceedings of the 66<sup>th</sup> Annual Sessions.

Thushari G.G.N. and Munasinghe D.H.N, (2010). “Comparative analysis of Protein and Lipid content of 2 prawn/shrimp species in Sri Lanka”, 7<sup>th</sup> Science Symposium of University of Ruhuna, Matara.

Gamage N.T.G and Munasinghe D.H.N, (2009). “Analysis of relative growth pattern and sexual dimorphism of selected morphometric and meristic characteristics of *Macrobrachiumrossenbergiidaquetai* (Sunier, 1925), 6<sup>th</sup> Science Symposium of University of Ruhuna, Matara.

### **Posters**

Weerasinghe K.B.S., Athawuda A.M.G.A.D., Gamage S., Abeygunawardana A.P., Thushari G.G.N., Liyanage N.P.P. and Jayamanne S.C. 2019. Preliminary investigation on current status of freshwater fishery sector and sensory qualities of selected food fish in 3 selected reservoirs of Badulla district in Uva province of Sri Lanka. Proceedings of International Research Conference of Uva Wellassa University, 7th -9th February 2019.

Leshika D.L., Ediriweera T.K., Abeygunawardana A.P., Siriwardana E.M.C., Thushari G.G.N., Liyanage N.P.P. and Jayamanne S.C. 2019. Evaluation of sensory qualities of Catla fish (*Catla catla*) in 3 selected reservoirs of Badulla district, Uva Province, Sri Lanka. Proceedings of International Research Conference of Uva Wellassa University, 7th -9th February 2019.

Jeyaamuthan S., Kumar, S.A., Jayawardana, J.M.D.R., Thushari G.G.N. and Jayasena D.K.D.D. (2018). Comparative Analysis of Physicochemical and Sensory Attributes of Mature and Immature Tumid Venus Clam (*Gafrariumtumidum*) in Different Locations of Jaffna Lagoon, Sri Lanka. Proceedings of 2nd International Research Symposium of Uva Wellassa University.

Senadeera R.P., Thushari G.G.N and Abeygunawardana A.P. (2018). Study on utility of *Crassostrea madrasensis* oyster shells for water quality improvement: An alternative for wastewater treatment. Proceedings of 2<sup>nd</sup> International Research Symposium of Uva Wellassa University.

Thushari G.G.N., Chavanich S.A., Yakupitiyage. A., Senevirathna J.D.M. (2016). Analysis of Total Petroleum Hydrocarbon contamination in edible oysters along selected intertidal regions in Thailand: coastal conservation approach, Proceedings in 3rd International Conference on Fisheries and Aquaculture – 2016, Negambo, Sri Lanka.

Thushari G.G.N. and Munasinghe D.H.N, (2010). “Comparative analysis of Protein and Lipid content of 2 prawn/shrimp species in Sri Lanka”, 7<sup>th</sup> Science Symposium of University of Ruhuna, Matara.

### **Reports**

“Production of caviar using readily available fish species” under the research grant NARP/11/UWU/ASEA/03 of Sri Lanka Council for Agricultural Research Policy (CARP) and Uva Wellassa University Research grant  
“Assessment of Impacts of Alien Fish species on Native Aquatic Fauna in Selected Minor Tanks in Badulla

District” under the collaborative support of the Biodiversity Secretariat (BDS) of the Ministry of Mahaweli Development & Environment

“Identification of culture potential and consumption pattern of freshwater fishes in 7 tanks, Ihala Uva” with the financial grant under the secretary of the Uva provincial Ministry of Agriculture, Irrigation, Animal Production and Inland Fisheries in 2016 (As a feasible study)

## RESEARCH PROJECTS

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### *Ongoing*

Assessment of microplastic pollution effects on selected marine and coastal ecosystems in Sri Lanka

### *Completed*

Production of value added products by Tilapia: A preliminary approach to increase Tilapia fishery sector, (2018) granted of Rs. 362,600.00 (UWU/RG/2018/035) under UWU research grants

Assessment of plastic pollution effects on coastal ecosystems in southern province of Sri Lanka, (2018) granted of Rs. 383,450.00 (UWU/RG/2018/029) under UWU research grants

Assessment of Impacts of Alien Fish species on Native Aquatic Fauna in Selected Minor Tanks in Badulla District (2016) granted of Rs 531,990.00 with the financial support of the Biodiversity Secretariat (BDS) of the Ministry of Mahaweli Development & Environment.

Identification of culture potential and consumption pattern of freshwater fishes in 7 tanks, Ihala Uva (2016), Uva provincial Ministry of Agriculture, Irrigation, Animal Production and Inland Fisheries

Coastal debris analysis and impact assessment as coastal pollution impacts on biotic communities : Master study research grant (2015) in Asian Institute of Technology (AIT)

Production of Caviar using readily available fish species (NARP/11/UWU/ASEA/03), (UWU /R/G-2013/02) (2012-2013), National Agricultural Research Policy (NARP), Uva Wellassa University Research Grant

Growth pattern, sexual dimorphism, intra-specific variation and nutritional composition assessment of commercially important shellfish varieties (IFS grant A 4309-1) grant from Sweden (2009-2011) by International Foundation of Science (IFS),

## AWARDS AND SCHOLARSHIPS

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2019 Vice Chancellor Research Award for publication in indexed peer reviewed research articles, 2nd International Research Symposium Uva Wellassa University

2017 Vice Chancellor Research Award for non-indexed peer reviewed research articles, 1<sup>st</sup> International Research Symposium Uva Wellassa University

2013 AIT Fellowship, Thailand for Master of Science program in the School of Environment, Resource and Development (SERD)

2010 Gold Medal for Highest Average of Biological Science, 18<sup>th</sup> Convocation, University of Ruhuna

2009 Best Oral Presenter, 6<sup>th</sup> Science Symposium of University of Ruhuna

## CAREER HISTORY

Duration		Capacity	Institute
From	To		
2017	Up to now	Senior Lecturer	Department of Animal Science, Uva Wellassa University of Sri Lanka
2015	2017	Lecturer	Department of Animal Science, Uva Wellassa University of Sri Lanka
2012	2015	Lecturer (Probationary)	Department of Animal Science, Uva Wellassa University of Sri Lanka
2011	2012	Temporary Lecturer	Department of Animal Science, Uva Wellassa University of Sri Lanka
2010	2011	Demonstrator	Department of Animal Science, Uva Wellassa University of Sri Lanka
2010	2010	Assistant Lecturer	Department of Zoology, University of Ruhuna
2009	2010	Demonstrator	Department of Zoology, University of Ruhuna

## TEACHING

### *Uva Wellassa University*

- Aquatic Ecosystems and Biodiversity
- Introduction to Marine Aquatic Resources
- Water Quality Management
- Biology, Anatomy and Physiology of Aquatic Animals
- Systematics and Morphometrics
- Fish Population Dynamics

## SUPERVISION

### *Undergraduate research supervised (Selected)*

2018 S. Wijethunga. Microplastic accumulation levels of coastal invertebrates in southern coastal belt of Sri Lanka.

S. Weerasinghe. Production of value-added products by Tilapia: A preliminary approach to increase Tilapia fishery sector.

L. Leshika. Study of value-added products development using commonly available Carp species in Uva province, Badulla.

S. Pieris. Characterization properties of commonly available oyster shells and identification the potential of product development.

2017 R.P. Senadeera. Study on Utility of Crassostrea madrasensis (Indian Oyster) Shells for Water Quality Improvement: An Alternative for Wastewater Treatment.

A.M.A.I.K. Athapaththu. A Study of microplastic accumulation in southern coastal waters in Sri Lanka.

Samarasinghe, U.S. Application of integrated waste water treatment system using Giant Salvinia (*Salvinia molesta*), Water Hyacinth (*Eichhornia crassipes*) and Blue Swimming Crab (*Portunus pelagicus*) shells for control of water pollution.

T.O.H. Perera. Assessment of coastal debris and its effects on selected coastal invertebrates in Dehiwala and mount Lavinia coastal belt of Sri Lanka: preliminary approach for coastal zone management.

S. Jeyaamuthan. Comparative Analysis of Physicochemical and Sensory Attributes of Mature and Immature Tumid Venus Clam (*Gafrarium tumidum*) in Different Locations of Jaffna Lagoon.

2016 W.D.K. Welgama. Synthesis and characterization of local bone charcoal and their application in waste water purification.

T.W.R.R.L Abeyrathne. Preliminary Investigation of Native and Introduced Faunal Species in Three Selected Minor Tanks of Uva Province: Conservative Approaches for Local Aquatic Resources Management.

P. S. A. Ekanayaka. Identification of Alternative Fish Species for Maldivian Fish Production.

2013 I.G.S.N.K. Abeyrathna. Production of Simulated Caviar using Readily Available Fish Species.

K.M. Rila. A Preliminary Study on Impact of Cooling Water Discharge of Coal Power Plant on Marine Phytoplankton in Norochcholai Coast, Kalpitiya Peninsula.

J. S. Madushanka. Phytoplankton & Nutrient Interaction towards Primary Productivity in the North Western Reef Ecosystems in Sri Lanka.

A.M. Azhar. A Study on extracting Gelatin from Big Eye Tuna (*Thunnus Obesus*) skin: An Alternative to Mammalian Gelatin.

K.A.D.D.S Gunawardane. Development of Calcium Supplement from the Bones of Yellow fin Tuna (*Thunnus albacares*)

2012 T.K.R.N. Thalpapwila. Development of Fish Soup Cube using Yellow Fin Tuna Off -cuts.

U.D.P. Manjula. Development of Fish Glue using Skin of Yellow fin Tuna (*Thunnus albacores*) and Mahi-Mahi (*Coryphaenidae hippurus*) and characterization of Glue Properties