



## Samantha Madage

Research scientist

Food Technology Section

<b>Qualifications</b>	BSc Agric. Hons (University of Peradeniya , 2003)
<b>Contacts</b>	Tel: +94-11-2379800 Ext: Email: <a href="mailto:samantha@iti.lk">samantha@iti.lk</a>
<b>Specialized Fields</b>	Food Science and Technology: Fish and meat processing Food Safety
<b>Interest Areas</b>	Food product formulation, Fish and meat processing, food factory designing, Food canning, Thermal process validation, Food safety
<b>Publications &amp; Communications</b>	<p>Journal Publications</p> <ol style="list-style-type: none"><li>1. Nuwanthi, S.G.L.I. , <b>Madage, S.S.K.</b>, Hewajuligea I.G.N. and Wijesekera, R.G.S. (2016) Comparative study on organoleptic, microbiological and chemical qualities of dried fish, Goldstripe Sardinella (<i>Sardinella gibbosa</i>) with low salt levels and spices, International conference 2015, Sabaragamuwa University of Sri Lanka. <i>Procedia Food Science</i>. (6)356-361</li><li>2. <b>Madage S. S. K.</b>, Medis W. U. D. &amp; Sultanbawa Y. (2015) Fish Silage as Replacement of Fishmeal in Red Tilapia Feeds, <i>Journal of Applied Aquaculture</i>, 27:2, 95-106</li></ol> <p>NCBI Gene Bank Submissions</p> <p>About 14 National Centre for Biotechnology Information (NCBI) GenBank depositions of new Bacterial sequences</p> <p>Refereed Conference communication</p> <ol style="list-style-type: none"><li>1. Divisekara, D.M.W.D., <b>Madage, S.S.K.</b>, Binduhewa, A.M.C.U., Hewajulige, I.G.N., Guruge Y.V., Walliwala, S. and Comster, K.G.R.F. (2019) Evaluation of the impact of three-hour power discontinuation on temperature and microbiological stability of refrigerated food: A simulated study. 4<sup>th</sup> Biennial Industrial Technology Institute Sri Lanka, research symposium-2019, proceedings. 17.</li><li>2. Premaseela, H.D.S.R., Perera, M.G.D.S., Hewajulige, I.G.N., Gunasekara, M.M.N.P., <b>Madage, S.S.K.</b>, Weerasekara, R.A.D.S.M.R. and Ganegedon, K.K. (2019) Effect of commonly used artificial fruit ripening methods on ripening behavior, quality and safety of banana, 5<sup>th</sup> Annual sessions of the IFSTSL, Extended abstracts- Food Techno 2019. 35-40.</li></ol>


3. Anoja,P., **Madage, S.S.K.**, Gunasekar, M.M.N.P. and Wijesekara, R.G.S. (2017) Analysis of Poly Aromatic Hydrocarbons (PAH) to determine the best firewood for fish smoking, 6<sup>th</sup> International conference of Sabaragamuwa University of Sri Lanka. *Abstracts*. 56.
4. Wijesuriya,H.G.E., **Madage, S.S.K.**, Gunasekar, M.M.N.P. and Wikkramasinghe, I.. (2017) Determination of Poly Aromatic Hydrocarbons (PAH) in fish smoked with different wood smoke, 6<sup>th</sup> International conference of Sabaragamuwa University of Sri Lanka. *Abstracts*. 54-55.
5. Lukshani, N., **Madage, S.S.K.**, Wijesekara, R.G.S. , Gunasekar, M.M.N.P. and Medis W.U.D. (2017) Analysis of Poly Aromatic Hydrocarbons of fire wood smoked used by indigenous communities, Undergraduate Research symposium 2017, Faculty of Livestock Fisheries and Nutrition, Wayaba University of Sri Lanka *Abstracts*. 60.
6. Anoja, P., Wijesekara, R. G. S., **Madage, S. S. K.**, and Gunasekara, M. M. N. P. (2016) Analysis of Polycyclic aromatic hydrocarbons to determine the best firewood for smoking fish, Undergraduate Research Symposium 2016, University of Wayamba, Sri Lanka. pp 59.
7. Gamage, D.G.N.D., **Madage, S.S.K.**, Wijesekara, R.G.S. and Hewajulige, I. (2016) Utilization of Tuna (*Thunus* sp) offals for fish oil extraction, quality evaluation and effect of Tocopherols on oxidative rancidity in extracted oil, The 3rd International Conferrence on Fisheries and aquaculture. p. 43
8. Divisekara, D.M.W.D., Niyangoda, H.R.W.M.G.C. and **Madage, S.S.K.** (2015) Isolation, identification and characterization of cultural probiotic bacteria associated with fermented fish products, Extended abstracts of papers, NARA scientific sessions 2015, pp 97-100.
9. Gamage, D.G.N.D., Wijesekara, R.G.S., **Madage, S.S.K.** and Hewajulige, I.G.N. (2015) quality and shelf life evaluation of crude tuna fish oil with addition of tocopherol, Abstracts, Undergraduate Research Symposium 2015, Faculty of Livestock Fisheries & Nutrition, Wayamba University,pp 59.
10. Jayasinghe, L.L.S.L., **Madage, S.S.K.**, Wijesundara, W.M.N.M. and. Liyanage N.P.P. (2013) Study on the effect of different levels of heat on the quality of dark muscle of Yellow Fin Tuna *Thunnus albacores*. Proceedings of Annual Research Symposium of Uva Wellassa University
11. Nanayakkara, N.M.K.I., **Madage, S.S.K.**, Hewajulige, I.G.N. and Wijesekara,R.G.S (2013). Evaluation of physical quality of locally available pelleted feed. Abstracts, Undergraduate Researach Symposium, Wayamba University, pp 6
12. Divisekara, W., **Madage S.S.K.**, Ramasinghe I. and Goonaratne, J. (2012) Evaluation of quality of *Jaadi* produce in western and southern coastal belt in Sri Lanka. . Proceedings of Annual Sessions SLAAS (Part I).
13. **Madage S.S.K.**, Chandramali A.P.G.W., Ramasinghe I. and Jayamanna V.S. (2011) Value addition to the shrimp waste by developing into silage. Proceedings Annual Sessions SLAAS (Part I). pp 37
14. **Madage S.S.K.** and Sultanbawa Y. (2010) Formulation and evaluation of a feed ingredient from co-drying of fish silage and rice bran. Proceedings of the 6<sup>th</sup> Annual Sessions Part I Abstracts pp 37 Presented at 6<sup>th</sup> Annual Scientific Sessions SLAAS 6<sup>th</sup> – 1<sup>0th</sup> December 2010
15. R. Weerasingha, N.S.B.M. Athapaththu, **S.S.K. Madage** and Y. Sultanbawa, (2008) A low cost feed for giant sea bass (*Lates calcarifer*). Annual Scientific Sessions Abstracts of papers. pp 16. Presented at the fourteenth annual scientific sessions of Sri Lanka Association for Fisheries and aquatic Resources (SLAFAR).
16. D.H.U. Eranda, S. Malavipathirana, **S.S.K. Madage** and R. Sabaragamuwa, (2008) Development of novel food packaging film made up from chitosan, fish gelatin. and determination of its physical and biodegradable characteristics Proceedings Annual

Sessions SLAAS. Presented at the 64<sup>th</sup> scientific sessions of Sri Lanka Association for the advancement of Science (SLAAS).

17. **Madage, S. S. K.**, Sultanbawa, Y., Aksnes, A., Medis, W. U. D. and Perera, R. A. P. (2007) Analysis and evaluation of fish silage and rice bran mix as potential feed ingredient Proceedings of the Conference Abstracts pp 73. Presentation at the International Conference on Tropical Aquaculture Research Towards sustainable Development, Colombo, Sri Lanka, 15<sup>th</sup> – 16<sup>th</sup> February 2007.
18. **Madage, S. S. K.**, Sultanbawa, Y., Aksnes, A., Medis, W. U. D. and Perera, R. A. P. (2007) Evaluating the storage stability of fish silage under tropical conditions Proceedings of the Conference Abstracts pp 80. Presented at the International Conference on Tropical Aquaculture Research Towards sustainable Development, Colombo, Sri Lanka, 15<sup>th</sup> – 16<sup>th</sup> February 2007.
19. **Madage, S. S. K.** and Sultanbawa, Y. (2006) Fish silage as replacement of fishmeal in tilapia feed (*Oreochromis spp*). Proceedings of the 62<sup>nd</sup> Annual Sessions Part I Abstracts pp 42. Presented at the 62<sup>nd</sup> Annual scientific Sessions of the Sri Lanka Association for the Advancement of Science (SLAAS), Colombo, Sri Lanka, 10<sup>th</sup> – 15<sup>th</sup> December 2006.
20. **Madage, S. S. K.** and Sultanbawa, Y. (2006) Evaluation of fish silage as feed substitute for growing pigs. Presentation at the 62<sup>nd</sup> Annual scientific Sessions of the Sri Lanka Association for the Advancement of Science (SLAAS), Colombo, Sri Lanka, 10<sup>th</sup>– 15<sup>th</sup> December. Published in Proceedings of the 62<sup>nd</sup> Annual Sessions Part I Abstracts pp 38 – 39.
21. **Madage, S. S. K.**, Sultanbawa, Y., Medis, W. U. D. and Perera, R. A. P. (2006) Effect of chitosan on extending the shelf life of raw egg in shells at ambient temperature. Presentation at the 35<sup>th</sup> Annual Sessions of the Institute of Chemistry Ceylon, Colombo, Sri Lanka, 28<sup>th</sup> – 30<sup>th</sup> June. Published in Chemistry in Sri Lanka 23(2): 20.
22. Sirisena, D., Mahinda, A., Sultanbawa, Y., **Madage, S. S. K.** and Serasingha, R. T. (2006) Substitution of fishmeal with fish silage in broiler finisher diet. Presentation at the 62<sup>nd</sup> Annual scientific Sessions of the Sri Lanka Association for the Advancement of Science (SLAAS), Colombo, Sri Lanka, 10<sup>th</sup> – 15<sup>th</sup> December. Published in Proceedings of the 62<sup>nd</sup> Annual Sessions Part I Abstracts pp 43.
23. Nuwanthi, S.G.L.I. , **Madage, S.S.K.**, Hewajuligea I.G.N. and Wijesekera, R.G.S. (2015) Comparative study on organoleptic, microbiological and chemical qualities of dried fish, Goldstripe Sardinella (*Sardinella gibbosa*) with low salt levels and spices, International conference 2015, Sabaragamuwa University of Sri Lanka.

#### Major Projects Undertaken

- **Co- Researcher**- By products from the fish industry in Sri Lanka Raw material availability and Industrial possibilities (LKA2325) funded by NORAD
- **Co- Researcher**- Commercialization of products from fish surplus material in Sri Lanka (LKA 3030) funded by NORAD
- **Principal Investigator**- Establishment of a facility for thermal process validation of canned food and low moisture processed food operations in Sri Lanka. Funded by Treasury, Sri Lanka
- **Principal Investigator** -Study of Poly Aromatic Hydrocarbons (PAH) in selected fire wood smoke and development of cottage level food smoker, Funded by Treasury, Sri Lanka
- **Principal Investigator**- Enhancing the quality of *Jaadi* in Sri Lanka, Funded by Treasury, Sri Lanka

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1. Technical capacity building support for selected agriculture based producer organization in Northern province funded by : United Nation Development Programme (UNDP)
  2. Value addition to fresh water fish in Sri Lanka funded by Aquatic Resources Development and Quality Improvement Project (ARDQIP)