



Dr. (Ms.) Sachini Jayawardana

Research Scientist

Food Technology Section

Qualifications	B.Sc. Special (Honors) in Food Science and Technology (University of Sri Jayewardenepura, 2012)
Contacts	Tel: +94 11 2797337 Email: sachini@iti.lk
Specialized Fields	Food Science and Technology, Biochemistry
Interest Areas	Functional foods, Food analysis, Bio assays, Food processing
Publications	<ol style="list-style-type: none">Jayawardana, S. A. S., Samarasekera, J. K. R. R., Hettiarachchi, G. H. C. M., Gooneratne, J., Datta Mazumdar, S. & Banerjee, R. (2019). Dietary fiber components, starch fractions and mineral composition of finger millet varieties of Sri Lanka, <i>Journal of Food Composition and Analysis</i>, 82, https://doi.org/10.1016/j.jfca.2019.103249.Abeysekera, W. K. S. M., Jayawardana S. A. S., Abeysekera W. P. K. M., Yathursan S., Premakumara G. A. S. and Ranasinghe, P. (2017) Antioxidant potential of selected whole grain cereals consumed by Sri Lankans: A comparative <i>in vitro</i> study. <i>Sri Lankan Journal of Biology</i>, 2(2), pp. 12-24.Jayawardana, S. A. S., Nawarathna, S. B. and Ranaweera, K. K. D. S. (2014) Replacement of artificial colourings of a carbonated soft drink with natural colour pigments from Red-layered Hibiscus. <i>Tropical Agricultural Research & Extension</i>, 16(4), pp. 130-135.
Communications	<ol style="list-style-type: none">Jayawardana, S. A. S., Samarasekera, J. K. R. R., Hettiarachchi, G. H. C. M. and Gooneratne, J. (2018) Anti-α-amylase, anti-α-glucosidase, antiglycation and glycation reversing potential of Sri Lankan finger millet (<i>Eleusine coracana</i>) varieties, <i>Proceedings of 5th International Conference on Multidisciplinary Approaches</i>, University of Sri Jayewardenepura, pp. 174.Jayawardana, S. A. S., Samarasekera, J. K. R. R., Hettiarachchi, G. H. C. M. and Gooneratne, J. (2017) <i>In vitro</i> anti-inflammatory properties of Finger millet (<i>Eleusine coracana</i>) varieties from Sri Lanka, <i>Proceedings of International Symposium on Traditional and Complementary Medicine</i>, Ministry of Health, Nutrition and Indigenous Medicine and Department of Ayurveda, pp. 105.Jayawardana, S. A. S., Samarasekera, J. K. R. R., Hettiarachchi, G. H. C. M. and Gooneratne, J. (2017) Nutritional and sensory properties of Finger millet (<i>Eleusine coracana</i>) flour incorporated biscuits, <i>Proceedings of 4th International Conference on Multidisciplinary Approaches</i>, University of Sri Jayewardenepura, pp. 56.Jayawardana, S. A. S., Samarasekera, J. K. R. R., Choudhary, M. I., Imad, R., Hettiarachchi, G. H. C. M. and Gooneratne, J. (2017) Cytotoxic properties of Sri Lankan varieties of Finger millet (<i>Eleusine coracana</i>), <i>Proceedings of PGIS Research Congress</i>, Postgraduate Institute of Science, University of Peradeniya, pp. 85.Jayawardana, S. A. S., Samarasekera, J. K. R. R., Choudhary, M. I., Maharjan, R., Hettiarachchi, G. H. C. M. and Gooneratne, J. (2017) Antimicrobial properties of finger

millet (*Eleusine coracana*) varieties of Sri Lanka, *Proceedings of the Basic and Applied Sciences Session of 10th International Research Conference*, General Sir John Kotelawala Defence University, pp. 34.

6. **Jayawardana, S. A. S.**, Divisekera, D. M. W. D., De Silva, A. B. G. C. J., Yathursan, S., Samarasekera, J. K. R. R. and Gooneratne, J. (2017) Ensuring Human Health, Food and Nutritional Security through Novel Cereal and Fruit based Prebiotics and Probiotics. *Proceedings of 1st Symposium of Indo-Sri Lanka Joint Research Program*, Ministry of Science, Technology and Research, pp. 12-13.
7. **Jayawardana, S. A. S.**, Samarasekera, J. K. R. R., Hettiarachchi, G. H. C. M. and Gooneratne, J. (2016) *In vitro* antioxidant properties of Sri Lankan Finger millet (*Eleusine coracana*) varieties, *Proceedings of 3rd International Conference on Multidisciplinary Approaches*, University of Sri Jayewardenepura, pp. 34.
8. Uthpala, T. G. G., Marapana, R. A. U., Pathirage, A. C. and **Jayawardana, S. A. S.** (2016) Effect of the nutritional composition on the textural quality of two gherkins (*Cucumis sativus* L.) varieties (Ajax & Vlasset) on brine fermentation, *Proceedings of 72nd Annual Sessions, Sri Lanka Association for the Advancement of Science*, pp. 102.
9. De Silva, A. B. G. C. J., **Jayawardana, S. A .S.**, Samarasekera , J. K. R. R. and Gooneratne, J. (2016) Assessment of physicochemical and functional properties of Sri Lankan Finger millet (*Eleusine coracana*) flour, *Proceedings of 3rd International Conference on Multidisciplinary Approaches*, University of Sri Jayewardenepura, pp. 107.
10. **Jayawardana, S. A. S.**, Samarasekera, J. K. R. R., Hettiarachchi, G. H. C. M., Choudhary, M. I., Jabeen, A. and Gooneratne, J. (2016) Anti-inflammatory effect of finger millet (*Eleusine coracana*) varieties of Sri Lanka on zymosan induced oxidative burst in phagocytes, *Proceedings of 9th International Research Conference*, General Sir John Kotelawala Defence University, pp. 214.
11. De Silva, A. B. G. C. J., **Jayawardana, S. A .S.**, Yathursan, S., De Silva, P. H. L. U., Aponso, D. M. K., Samarasekera , J. K. R. R. and Gooneratne, J. (2016) Assessment of physicochemical properties of Banana (*Musa* spp.) flour in selected varieties in Sri Lanka, *Proceedings of 9th International Research Conference*, General Sir John Kotelawala Defence University, pp. 213.
12. **Jayawardana, S. A. S.**, Abeysekera, W. K. S. M., Ranasinghe, P., Abeysekera, W. P. K. M. and Premakumara, G. A. S. (2016) Antioxidants rich whole grain cereals in Sri Lanka: Potential functional substitute to wheat in food industry, *Proceedings of NSF Research Summit*, National Science Foundation, pp. 77.
13. **Jayawardana, S. A. S.**, Samarasekera, J. K. R. R., Hettiarachchi, G. H. C. M., and Gooneratne, J. (2016) Nutritional composition of Sri Lankan Finger millet (*Eleusine coracana*) varieties, *Proceedings of 3rd Ruhuna International Science and Technology conference*, University of Ruhuna, pp. 49.
14. **Jayawardana, S. A. S.**, Abeysekera, W. K. S. M., Sutharsana, R., Ranasinghe, P., Abeysekera, W. P. K. M. and Premakumara, G. A. S. (2015) A comparative antioxidant properties of selected whole grain cereals: A preliminary *in vitro* study, *Proceedings of 2nd Biennial Research Symposium*, Industrial Technology Institute, pp. 1.
15. **Jayawardana, S. A. S.**, De Silva, A. B. G. C. J., Samarasekera , J. K. R. R. and Gooneratne, J. (2015) Physicochemical and functional properties of Finger millet (*Eleusine coracana*) flour and its potential use in food product development, *Proceedings of 2nd Biennial Research Symposium*, Industrial Technology Institute, pp. 14.
16. De Silva, A. B. G. C. J., Yathursan, S., **Jayawardana, S. A. S.**, Aponso, D. M. K., Samarasekera , J. K. R. R. and Gooneratne, J. (2015), Study on amylose content, rheological properties and particle size distribution of Sri Lankan banana (*Musa* spp) flour, *Proceedings of 2nd Biennial Research Symposium*, Industrial Technology Institute, pp. 7.

17. **Jayawardana, S. A. S.**, Samarasekera, J. K. R. R., Gooneratne, J. and Hettiarachchi, C. (2015) Arabinoxylans contents of Sri Lankan Finger Millet (*Eleusine coracana*) varieties, *Proceedings of 71st Annual Sessions, Sri Lanka Association for the Advancement of Science*, pp. 110.
18. **Jayawardana, S. A. S.**, Samarasekera, J. K. R. R., Hettiarachchi, G. H. C. M., Gooneratne, J., Datta Mazumdar, S. and Banerjee, R. (2015) *In-vitro* Starch Digestibility, Resistant Starch and Amylose contents of Sri Lankan Finger Millet (*Eleusine Coracana*) varieties, *Proceedings of 8th International Research Conference*, General Sir John Kotelawala Defence University, pp. 171.
19. De Silva, A. B. G. C. J., **Jayawardana, S. A .S.**, Aponso, D. M. K., Samarasekera, J. K. R. R. and Gooneratne, J. (2015) Rheological properties and particle size distribution of Sri Lankan finger millet (*Eleusine coracana*) flour, *Proceedings of 8th International Research Conference*, General Sir John Kotelawala Defence University, pp. 196.
20. Srimali, H. P. D., Somawathi, K. M., Abeysekera, W. K. S. M., **Jayawardana, S. A. S.** and Premakumara, G. A. S. (2015) Enhanced physicochemical and antioxidant properties of rice extracts added yogurts in comparison to plain yoghurt. *Proceedings of 16th Annual Research Sessions*, Faculty of Applied Sciences, Sabaragamuwa University of Sri Lanka, pp. 11.
21. Sutharsana, R., **Jayawardana, S. A. S.**, Samarasekera, J. K. R. R., Gooneratne, J., Priyanka, D., Bagade, P., Mazumdar, S. D. and Banerjee, R. (2015) *In vitro* starch digestibility and resistant starch content of selected banana varieties from Sri Lanka, *Chemistry in Sri Lanka*, Institute of Chemistry Ceylon, pp. 25.
22. Amunugoda, P. N. R. J., Pitipanaarachchi, R., **Jayawardana, S. A. S.** and Walliwalla, S. G. (2015) Development of Ready To Serve Curry Leave Beverage, *Proceedings of 5th International Research Symposium on Engineering Advancements*, South Asian Institute of Technology and Medicine, pp. 281-282.
23. Sutharsana, R., **Jayawardana, S. A. S.**, Ratnayaka, A. A. W., Divisekera, D. M. W. D., Samarasekera, J. K. R. R. and Gooneratne, J. (2014) Soluble, insoluble and total dietary fiber content of selected banana varieties (*Musa* species) from Sri Lanka. *Proceedings of the 70th Annual Sessions - Part 1, Sri Lanka Association for the Advancement of Science*, pp. 34.
24. Ratnayaka, A. A. W., **Jayawardana, S. A. S.**, Sutharsana, R., Divisekera, D. M. W. D., Samarasekera, J. K. R. R. and Gooneratne, J. (2014) Determination of dietary fibre and free sugar content in three cultivars of Finger Millet (*Eleusine coracana*) *Proceedings of the 2nd International Symposium, Sri Lankan Academy of Young Scientists*, pp. 47.
25. Sutharsana, R., **Jayawardana, S. A. S.**, Ratnayaka, A. A. W., Divisekera, D. M. W. D., Samarasekera, J. K. R. R. and Gooneratne, J. (2014) Dietary fiber, uronic acid and sugar content of selected banana varieties (*Musa* species) from Sri Lanka. *Proceedings of the 34th Annual Sessions*, Institute of Biology, Sri Lanka, pp. 39.

Patents	An inventor of the patent owned by Industrial Technology Institute, Sri Lanka titled “Manufacture of Ready-To-Serve Curry Leave Beverage” (Patent number: 18319, International Patent Classification: A23L/38).
Major Projects Undertaken	<ul style="list-style-type: none"> • Co-Reseacher-Ensuring Human Health, Food and Nutritional Security through Novel Cereal and Fruit based Prebiotics • Co-Reseacher -Evaluation of bioactive properties of Sri Lankan Finger millet and determination of <i>in vitro</i> cholesterol assimilation effect of potential probiotics isolated from Finger millet

- **Co-Researcher**-Comprehensive utilization of Sri Lankan grown *Moringa oleifera* in developing health food and herbal medicinal products to startup the *Moringa oleifera* industry in Sri Lanka