DR. (Mrs.) H .M. THEJA HERATH Principal Research Scientist Food Technology Section
 B Sc Special Degree in Chemistry (Peradeniya, 1993) M Phil – Food Chemistry (University of Sri Jayewardenepura, 2004)
P hD – Food Chemistry and Nutrition (University of Kelaniya, 2013)
Research Fellowship - Bio-active functional food factors (NFRI, Japan - one year: 8/2000-
9/2001).
Chartered Chemist - designations offered by the Institute of Chemistry (I Chem), Sri Lanka
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Food Science and Technology majoring Food Chemistry, Research and development
Food product and processes development
Food Analysis; physical, chemical and sensory properties of food products, Nutritional labeling
Nutrition and Bio- Chemistry, Enzyme Technology
Functional Food formulation and analysis of functional food factors
Grain processing and cereal based products development
Starch chemistry, Modified /functional starch and product development Protein activity and bio chemistry, enzyme technology, Functional Foods
 a. International Best Researcher Award-2024, in New Science Inventions – Subdomain in Food Technology and Chemistry - b. International Women Research Award-2023, International Research Awards on computer vision. c. Achieved Silver Medal winning award for "Dulme Precooked Cereal Mixture for Children and Adults" in the field of Food Technology in Open Caterogy at Sahasak Nimavum-2021 national invention and innovation competition. d. Achieved Bronze Medal winning award for "Isotonic Nas Narang Sport Drink" in the field of Food Technology in Open Caterogy at Sahasak Nimavum-2021 national invention and innovation competition. e. Achieved Bronze Medal winning award for 'Low added sucrose nutritious scone/Flat bread' in the technical field of Food Technology at Sahasak Nimavum -2018 national invention and innovation competition. f. Received the NRC merit award for scientific publication 2015. g. Received the NRC merit awards for scientific publication 2017. h. Achievement Award was obtained for the best commercialized product/ technology transfer at 5th Biennial Research Symposium, ITI 2021. i. Achievement Award was obtained for the Best commercialized product / technology Award at 3rd Biennial Research Symposium – 2017, ITI, Sri Lanka. j. Received the Appreciation Awards for publishing research articles in SCI/SCI expanded journals at the 3rd Biennial Research Symposium 2017, ITI, Sri Lanka.

September 2017 at 3rd Biennial Research Symposium – 2017, ITI, Sri Lanka.

- I. The Best Innovative Product Award at Western Provincial Best Innovative Product Exhibition.
- m. An Appreciation Award for publishing research articles in SCI/SCI expanded journals at the 4th Biennial Research Symposium 2019 ITI, Sri Lanka.
- n. Received an Appreciation Award in recognition of award winning academic and research excellence at the 4th Biennial Research Symposium-2019, ITI, Sri Lanka.

Publications

A. RESEARCH PUBLICATIONS

Publications in peer reviewed journals (International)

- Herath H. M. T., Ishikawa Y. T. and Yamaki K. (2003). Inhibitory Effect of Some Flavonoids on Tumor Necrosis Factor -∞ Production in Lipopolysaccharides – Stimulated Mouse Macrophage Cell Line J774.1. *Journal of Medical Food* 6 (4): 365-370. (SCI)
- Herath H. M. T., Rajapakse D., Wimalasena S. and Weerasooriya M. K.B. (2011). Iron content and bio-availability studies in some Sri Lankan rice varieties. *International Journal of Food Science and technology* 46:1679-1684. (SCI)
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- Samaraweera S.A.P.U., Aruma B.G.C.J. De Silva, Madara D.W. Samaranayake, Katudeni V.T. Gunawardhane and Herath Mudiyanselage T. Herath (2016). Potential application of locally grown Sri Lankan corn varieties to utilize in the food industry; Corn Starch and Corn Syrup. *International Journal of Innovative Research in Technology & Science* 4(6)17-22.
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- Perera O.D.A.N, Eashwarage I.S. and Herath H.M.T. (2017). Development of Dietary Fibre Rich Multi legumes Flake Mix. *Journal of Pharmacognancy and Natural products* 3 (1). DOI: 10.4172/2472-0992.1000135.
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- Herath H. M. T., Bhagya Shanaki K. M., Dineshka Priyangani, De Silva M. S. W. (2018). Formulation and physico-chemical properties of dietary fiber enhanced low glycemic multi-grain Noodles for adults using locally available cereals and legumes. *Research Journal of Chemical Sciences 8* (4):1-9.
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- Herath H. M. T. and. Samaranayak M.W. D. (2019). A Pilot Scale Study Rice Flour Fortification Programme in Sri Lankan Practice. Research *Journal of Chemical Science* 9 (4); 1-10.
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- Lokuge L. L. P. S., Herath H. M. T., Samaranayake M. D. W., Liyanage S. L., Ratnayake R. H. M. K. and Abeysekera W.K.S.M. (2020). A Comparative Study on Potential Antioxidants and Antioxidant Activity in Raw and Cooked Selected Locally Grown Legumes in Sri Lanka. *Asian Food Science Journal* 17 (4): 14-27.
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- Pushpakumara A.G.S.K. Gunasesakara N., Herath H. M.T. and T. Madhujith (2023). Impact of Partial Replacement of Wheat Flour with Chickpea Flour on Physico-Chemical and Sensory Properties of Tea Buns. *International Journal* of Food Properties 26 (1): 1522-1533. (SCI)
- Wickramaarachchi L. A., Rajawardana D. U., Gunasekara M.M.N.P., Herath H.M.T. and Jayasinghe M. A. 2024. Development and evaluation of physicochemical, sensorial, and shelf- life of grain-milk beverages. *Journal of Cereal Science* 116: 1-8. (SCI)
- Hansika G. D. R., Herath H. M. T. and Perera O.D.A.N. (2024). Impact on Incorporation of Purple Yam Flour (Dioscorea alata var. Purpurea) in Development of Multi-Grain Nutri Bar. *European Journal of Medical and Health Research* 2 (5): 206-216.
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- 02 Gooneratne J., Premakanthie A.S. and Herath,H.M.T. (1996). Sensory evalution trials on products using iron-fortified wheat flours. Proceedings Sri Lanka Asso. Advmt of Sci. pp. 90.
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- 05 Herath H.M.T., Rajapakse D., Ediriweera N. and BentotaA. P. (2007). Screening of traditional rice varieties of Sri Lanka for micro-nutrients; Iron and Zinc and Phosphorus. Proceedings Sri Lanka Asso. Advmt of Sci. pp 132

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- 15 Liyanage J. L., Ranaweera K. K. D. S. and Herath H. M. T. (2014). Study on avocado oil extraction and physcio-chemical properties. Proceedings of Sri Lanka Asso. Admnt of Sci. pp 85.
- 16 Herath N. A. and Herath H. M. T. (2014). Iron content and *in-vitro* availability of iron in some popular consumed legumes in Sri Lanka, Proceedings of Sri Lanka Asso. Admnt of Sci. pp 140.
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- 19 Gimanie kasunmala I.G., Jagath Wansapala and Theja Herath H.M. (2015). Development of a high caloric nutritional porridge formula enriches with vitamin A& iron, for the primary school children. Proceedings of the Sri Lanka Asso. Admnt of Sci, pp. 21.

- 20 Thanushan S., Herath H.M.T. and Perera O.D.A.N. (2015). Formulation of cereal based instant mix from locally available whole grain cereals with "Good Dietary Fiber source" for elderly population. Undergraduate Research Symposium, Faculty of Livestock Fisheries & Nutrition, Wayamba University, pp. 35.
- 21 Rupasinghe K.M.D.T., Herath H.M.T. and De Silva M.S.W. (2015). Formulation of dietary fibre enhanced cracker for adults using selected locally available whole grain cereals and legume flours. Undergraduate Research Symposium, Faculty of Livestock Fisheries & Nutrition, Wayamba University, pp. 44.
- 22 Samaranayake M.D.W., De Silva A.B.G.C. J., Herath H. M. T., Gunawardhana K.V.T. and Fernando W. R. D. (2015). Optimization of liquefaction and saccharification times for laboratory scale production of glucose syrup from Sri Lankan cassava starch, 2nd Biennial Research Symposium – 2015, ITI, Sri Lanka, pp.6.
- 23 Sutharsana Y., Samaranayake M.D.W., Abyesekera W.K.S.M. and Herath H.M.T. (2015). Nutritional composition, fatty acid profile and antioxidant activity of selected traditional rice (*Oryza sativa L.*) varieties of Sri Lanka. Proceedings of the Institute of Biology, pp 55.
- 24 Shanaki K.M.B., Herath H.M.T. and. De Silva M.S.W (2016). Formulation of dietary fibre enhanced multi-grain noodles for adults using selected locally available whole grain cereals and legumes. Undergraduate Research Symposium-2016, Faculty of Livestock Fisheries & Nutrition, University of Wayamba, pp.51.
- 25 Eashwarage I.S., Perera O.D.A.N. and **Herath H.M.T.** (2016). Development of dietary fibre rich multi-grain legumes flake mix. Undergraduate Research Symposium-2016, Faculty of Livestock Fisheries & Nutrition, University of Wayamba, pp.28.
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- 33 Himasari H. N., Herath H. M. T., Silva M. S. W. De.and Jayawardana T. M. D. A.(2019). Development of Horse Gram Based Ready To Serve Nutritious Drink. Extended Abstract-Food Techno 2019 (5th Annual Session of the IFSTSL), pp. 47-51.
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- 35 Abeykoon A.M.C.N., Gunasekara M.A., Herath H.M.T., Liyanage S. L. and Jayasinghe M. (2019). Effect of Pressure Cooking on Trypsin Inhibitor Activity of Locally Grown Legume Varieties in Sri Lanka. Proceedings of 4th Biennial Research Symposium – 2019, ITI, Sri Lanka, pp.5.
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- 47 Grero K. M. U., Pathirage P.M.T.D. and Herath H.M.T. (2022). Nutritional information and healthiness of ready-to-eat/cook packaged food products available for children in Sri Lanka and attitudes of parents living in western province toward purchasing. Proceedings of the International Conference on Applied and Pure Sciences -2022. University of Kelaniya. pp. 91.
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- 49 Hansika G.D.R., Herath H.M.T. and Perera O.D.A.N. (2022). Formulation of Purple yam (Dioscorea alata var. Purpurea) and Kaluheenati rice (Oryza sativa L.) based multigrain nutri-bar. Proceeding of 9th Undergraduate Research Symposium-UReS. Faculty of Livestock, Fisheries & Nutrition, Wayaba University of Sri Lanka. pp 55.
- 50 Pushpakumara A. G. S. K., Wickramaarachchi L. A. and Herath H.M.T. (2023). Development and Nutritional Analysis of Purple Yam (Dioscorea alata L.) Flour Based Healthy Pudding Mix. Proceedings of the Annual Scientific Sessions of the Nutrition Society of Sri Lanka – 2023.pp 55.
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	Book Publications
	 Rajapakse D., Premakumara G. A. S., Herath T., Bentota A. P. and Wijesundara S. M. (2011). Properties of some traditional rice varieties of Sri Lanka. Industrial Technology Institute and Department of Agriculture, Ceylon Shipping Lines Ltd. Sri Lanka. Herath H.M.T., Ranathunga R.A.A. and Samaranayake M.D.W. (2016). Important Nutrition Information of Popular Grain Legume Varieties in Sri Lanka. Department of Agriculture and Industrial Technology Institute, Agriculture Publication Unit, Gannoruwa.
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	01 Kasunmala I.G.G., Wickramasinghe I. and Theja Herath. (2018). Food as Nutritional Source to prevent Malnutrition among Developing Countries. In: Trends and Prospects in Technology, Processing and Preservation. (Eds. Paul P.K., Mahawar M.K., Arghya M., Abobatta W & Panja payel). Today and Tomorrow's Printers and Publishers, New Delhi, India. pp 457-479.
Major Projects Undertaken	
	Research Grants served as a Principal Investigator Wining
	Research Grants
	• Production of Glucose Syrup and High Protein Concentrates from locally available raw materials of broken rice, maize and manioc -2013-2016(NRC project-13-095 / SLR 3.5 Mn).
	 Development of Nutritious and Healthy Food Corners for the Children/Adolescents-2020- 2023 (NRC project 19-007 -Total budget – SLR 5.0 Mn).
	Treasury grants
	 Formulation of High Iron and High Protein Containing Rice Based Product – 2005-2006 (Treasury Grant -SLR 1.0 Mn).
	• Formulation of high fibre and low sugar products -2015-2016 (Treasury Grant -SLR 1.0 Mn).
	 Screening of Anti-Nutritional Factors (ANFs) and activity of bio-active proteins in locally grown edible legume varieties -2018-2019 (Treasury Grant –SLR 3.0 Mn). Development and upgrading of technologies of value added products from selected underutilized fruits
	and investigation of their functional properties- 2019-2020 (Treasury Grant –SLR 5.0 Mn)

Research projects served as Co-Investigator
Wining Research Grants

- Utilization of *Cucurbita spp* for food Industry -1999-2000 (National Science Foundation -SLR 0.5 Mn).
- Wheat flour fortification programme in Sri Lanka -1996-1998 (Ministry of National Planning -SLR 4.0 Mn)

Treasury Grants

Paper Artic

Services to bodies

- Investigation of Health Promoting Functional Properties of Rice -2006-2008 (Treasury Grant-SLR 4.0 Mn).
- Market basket study -2013-2015 (Treasury Grant -SLR 1.5 Mn).
- Development of Shelf Stable High Energy Instant Food Products from Locally Available Raw Materials using Gamma Irradiation -2015-2017 (Treasury Grant -SLR 1.5 Mn).
- Development of nutritional instant porridge as a supplementary food for the patients with diabetic mellitus and cholesterol -2018-2019 (Treasury Grant SLR -0.7Mn)

Research project submitted

	• "Improving nutritional status of people by introducing healthy agro and Fish based products: Scaling up and Commercialization of market ready products to ensure food security" was submitted to National Science Foundation for funding-2020 (Fund request: Rs. 2.5Mn).
	• "Shelf life and Toxicity studies of Herbal Porridge as an Immune Booster" was submitted to NRC for continuation of ongoing project TG18/138-2020 (Fund Request: Rs. 2.5 Mn).
	 "Development of a prebiotic based supplement from underutilized crops as an adjuvant in protein energy malnourished (PEM) murine model: mechanistic insights in perturbations in gut microbiota" was submitted to Indo-Sri Lanka Joint Researh Programme initiated from MOTR -2020(Fund request: Rs. 8.5 Mn).
	 "Development of lactic fermented milk-millet/cereal (Indian & Sri Lankan Origin) products with antihypertensive attribute, nutritional superiority and process scaling up for commercialization" was submitted to -Indo-Sri Lanka Joint Researh Programme initiated from MOTR- 2017 (Fund request: Rs. 11 Mn).
es Published	"Traditional rice based products" in Vidya Paper (2018).
	"Vesak week and vegetarian nutrition" in Vidya Paper (2018).
	"Multi -grain products and health properties" in Vidya Paper(2019).
professional	1. Board of Directors - Sri Lanka Thriposha Limited.
	2. A member of the Sectoral Committee on Food Products- SLSI.
	3. Technical Advisory Committee Member of the Moderate Acute Malnutrition Treatment /Nutrition Coordination Division, Ministry of Health.
	4. Reviewing journal articles in <i>Ceylon J. of Science</i> , Department of Botany, Faculty of Science, University of Peradeniya, Sri Lanka.
	5. Reviewing journal articles in PGIA, University of Peradeniya, Sri Lanka.
	5. Reviewing journal articles in PGIA, University of Peradeniya, Sri Lanka.

- 6. Reviewing journal abstracts in 2nd International Conference on 'Food Quality, Safety and Security FOOD QUALSS 2018', organized by University of Sri Jayewardenepura.
- 7. Reviewing journal articles in BOI Scientific Sessions.
- 8. Reviewing of Drafts of Sri Lankan Standards -SLSI.
- 9. A team member in the National Micro-Nutrient Fortification Programme in Sri Lanka.