	Dr (Mrs) Selvaluxmy Chelvendran (nee Kathirgamanathar) Principal Research Scientist Herbal Technology Section
Qualifications	<ul> <li>B.Sc. Honors - Chemistry (University of Jaffna, 1998).</li> <li>Ph.D. – Natural Products Chemistry &amp; Chemical Ecology (University of Peradeniya, 2004).</li> <li>Postdoctoral training (HEJ, Research Institute of Chemistry, ICCBS, University of Karachi, Pakistan, 2011).</li> </ul>
Contacts	Tel: +94 011 2797326 Email: <u>selvaluxmy@iti.lk</u>
Specialized Fields	<ul> <li>Natural Products Chemistry (medicinal and aromatic plants, essential oils and lichens)</li> <li>Chemical Ecology, synthesis, bio assays (immunomodulatory and anti-cancer <i>in vitro</i> assays)</li> <li>Mycotoxins and Quality control and standardization of herbal drugs</li> <li>Analytical techniques of herbal products, aflatoxin, essential oils and essential oil based products.</li> </ul>
Interest Areas	<ul> <li>Investigation of bioactive compounds and their activity from medicinal and aromatic plants</li> <li>Herbal formulations for the healthcare of human</li> <li>Analyis of essential oil and essential oil based products and their bio activities</li> <li>Develop quality control and standardization techniques for the herbal drugs to implement the rules and regulations for the registration</li> <li>Detection of adulteration in food items</li> <li>Preparation of National relevant documents for regulatory purpose</li> </ul>
Publications & Communications	<ol> <li>Publications</li> <li>Madhuvanthi Chandrakanthan, Shiroma M. Handunnetti, Galbada Sirimal Arachchige Premakumara, and Selvaluxmy Kathirgamanathar. (2020). Topical Anti-Inflammatory Activity of Essential Oils of <i>Alpinia calcarata</i> Rosc., Its Main Constituents, and Possible Mechanism of Action, Evidence-Based Complementary and Alternative Medicine Volume 2020, Article ID 2035671, 19 pages.</li> <li>Kathirgamanathar, S., Abeysekera W.P.K.M., Weerasinghe, D.M.K.P., Ranasinghe, P., Binduhewa, A.M.C.U. (2018). Antioxidant, Anti-amylase and Lipid lowering potential of leaves of <i>Aporosa lindleyana</i> Baill. (Kebella), <i>Sri Lankan J. Biol.</i> 2018, 3 (1): 1-10.</li> <li>Thayalini Thileepan, Vasanthi Thevanesam, Selvaluxmy Kathirgamanathar. (2018). Anticandidal activity of essential oils of <i>Myristica fragrans</i> and <i>Syzygium</i></li> </ol>

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 Thayalini Thileepan, Vasanthi Thevanesam, and Selvaluxmy Kathirgamanathar. (2017). Antimicrobial Activity of Seeds and Leaves of *Myristica fragrans* against Multiresistant Microorganisms, Journal of Agricultural Science and Technology A 7, p. 302-308.

Sulosana. P, Madushani. Y.M.P.K, Selvaluxmy. K, Medawatta. H.M.U.I, Thayalini. T. (2017). Standardization of Jala Peenisa choornam used for Peenisa Rogam, Asian Journal of Medicine and Health, 5(3): p.1-5.

- 5. Kathirgamanathar, Ahsana Dar, Mudassar Azhar, Syeda Roohina Ali, M. Iqbal Choudhary and Muhammad Kashif. (2017). Evaluation of cytotoxicity of leaf and rhizome extracts of *Alpinia calcarata* Rosc. Human lung NCI-H460 and cervical HeLa cancer cell lines, Sri Lankan Journal of Biology, 2 (2), p.36-45.
- 6. Premakumara GAS, Kathirgamanathar S, Thayalini T, Bandara VS, Thevanesam V, Arawwawala LDAM, (2016). Antibacterial activity and chemical analysis of fruit oil of *Trachyspermum ammi* Linn. Sprague, Journal of Ayurvedic and Herbal Medicine 2(4), 117-119.

## Communications

- Kathirgamanathar, S., Medawatta, H.M.U.I., Herath, H.M.T., Ransilu, P.Y., Arawwawala, L.D.A.M. and Priyangani, A.W.D. (2019). Antioxidant rich instant herbal porridge from leafy vegetables, Proceedings of 4<sup>th</sup> Biennial symposium of Industrial Technology Institute, 13.
- Kathirgamanathar, H.M.U.I. Medawatta, A.W.D. Priyangani, L.D.A.M. Arawwawala, H.M.T. Herath, G.D.D.R. Jayasinghe. (2018), Antioxidant properties and nutritional value of leafy vegetables used in herbal porridge, Asian Symposium on Medicinal Plants, spices and other Natural Products XVI, 220.
- 3. T. Thileepan, V. Thevanesam, S. Kathirgamanathar., Antibacterial activity of Parankipaddai kudineer (decoction) and its component plants. (2017). Proceedings of International Symposium on Traditional medicine and Complementary medicine, , 103.
- S. Kathirgamanathar, W.P.K.M. Abeysekera, A.M.C.U. Binduhewa, P. Ranasinghe and M.D.P.M. Peiris. (2017). Development of an antioxidant rich ready to serve drink from *Aporosa lindleyana* Baill. (Kebella), ITI 3<sup>rd</sup> Biennial symposium.
- S. Kathirgamanathar, W.P.K.M Abeysekera, D.M.K.P. Weerasinghe, P. Ranasinghe, A.M.C.U. Binduhewa and M.D.P.M. Peiris. (2017). *Aporosa lindleyana* Baill. (Kebella) tea: An alternative to Green tea, 73<sup>rd</sup> Proceedings of Sri Lanka Association for the Advancement of Science, 72.
- Madushani. Y.M.P.K, Sulosana. P, Selvaluxmy. K, Medawatta. H.M.U.I, Thayalini. T. 2017. Standardization of JalaPeenisa choornam used for Peenisa Rogam, Proceedings of National Research Conference and Exhibition on Indigenous medicine (NRCEIM), 65.
- S.Kathirgamanathar, D.M.K.P.Weerasinghe, W.P.K.M Abeysekera, P. Ranasinghe and A.M.C.U. Binduhewa. (2016). Anti-lipase and anti-cholesterol esterase activities and binding of bile acids by leaf extracts of *Aporosa lindleyana* Baill. (Kebella), IOB 36<sup>th</sup> Annual sessions, 24.
- S.Kathirgamanathar, W.P.K.M Abeysekera, D.M.K.P.Weerasinghe, P. Ranasinghe and A.M.C.U. Binduhewa. (2016). Anti-amylase potential and phytochemical analysis of leaf extracts of *Aporosa lindleyana* Baill. (Kebella), 4<sup>th</sup> International Conference on Ayurveda, Unani, Siddha & Traditional Medicine, 135.
- 9. Thayalini T, Thevanesam.V, Kathirgamanathar.S, Liyanapathirana.V., Gamage.T., 2015. Antibacterial activity of decoction and methanolic extracts of the fruit of *Piper*

	<i>longum</i> fruit against selected pathogens. Fourth annual conference and scientific sessions of The Sri Lanka Society for Microbiology (SSM), Vol.3, 9.
	<ol> <li>Chandhrakanthan M, Kathirgamanathar S, Handunnetti SM, Premakumara GAS. (2015). Extracts of <i>Alpinia calcarata</i> (Lesser galangal) inhibits production of inflammatory mediator - Nitric oxide in RAW 264.7 Murine macrophage, Proceedings of the Young Scientist Forum Symposium, 37-40.</li> </ol>
	11. Chandhrakanthan M, Kathirgamanathar S, Handunnetti SM, Premakumara GAS. (2015). Evaluation of anti-inflammatory activity of <i>Alpinia calcarata</i> leaf extracts: An <i>in vitro</i> study, IBMBB, Seventh Annual Scientific Sessions, 16.
	<ol> <li>M Chandhrakanthan, S Kathirgamanathar, SM Handunnetti, GAS Premakumara. (2015). <i>Alpinia calcarata</i> Rosc. rhizome extracts: A prospective inhibitor of inflammatory mediators, 8<sup>th</sup> International Research Conference, General Sir John Kotelawala Defence University, Sri Lanka, 162.</li> </ol>
	13. M Chandhrakanthan, S Kathirgamanathar, SM Handunnetti, GAS Premakumara. (2015). Essential oils of <i>Alpinia calcarata</i> Rosc. inhibits the <i>in vitro</i> generation of Reactive Oxygen Species in mouse macrophages, 2 <sup>nd</sup> International Conference on Multidisciplinary Approaches, Faculty of Graduate Studies, University of Sri Jayewardenepura.
	<ol> <li>M Chandhrakanthan, S Kathirgamanathar, SM Handunnetti, GAS Premakumara. (2015). Anti-inflammatory volatile constituents from rhizomes and leaves of <i>Alpinia</i> <i>calcarata</i>, ITI 2<sup>nd</sup> Biennial symposium.</li> </ol>
	15. S.Kathirgamanathar, K.P.D.M.K.Pathirana. (2015). Chemical composition of essential oils of different parts of <i>Myristica fragrans</i> (nutmeg) and <i>Syzygium aromaticum</i> (clove) grown in Sri Lanka, ITI Biennial symposium.
	<ol> <li>S.Kathirgamanathar, D.M.K.P.Weerasinghe, W.P.K.M Abeysekera, P. Ranasinghe and A.M.C.U. Binduhewa. (2015). Antioxidant properties of leaves of <i>Aporosa</i> <i>lindleyana</i> Baill. (Kebella), Proceedings of the 35<sup>th</sup> Annual sessions, The Institute of Biology, Sri Lanka, 62.</li> </ol>
	17. Thayalini T, Thevanesam.V, Kathirgamanathar.S, Liyanapathirana.V., Gamage.T., 2015. Antibacterial activity of decoction and methanolic extracts of the fruit of <i>Piper longum</i> fruit against selected pathogens. Fourth annual conference and scientific sessions of The Sri Lanka Society for Microbiology (SSM), Vol.3, 9.
	Newspaper article
	<ol> <li>M. Chandrakanthan., S. Kathirgamanathar., Shiroma M Handunnetti and G.A.S. Premakumara. (2018). Exploring the Secret Molecules of Heen Araththa (Our Traditional Pain Reliever), Vidya, The Official News paper for Ministry of Science, Technology and Research.</li> </ol>
Major Projects	Activity guided separation of anti-inflammatory compounds from <i>Alpinia</i>
Undertaken	calcarata rhizome and leaf.
	<ul> <li>Phytochemical analysis and antimicrobial activities of parankipaddai kudineer (decoction) used in skin diseases</li> </ul>
	<ul> <li>Formulation of herbal drink &amp; herbal lozenge from Aporosa lindleyana Bail young leaves &amp; bioactivity studies</li> </ul>
	Development of instant nutritional porridge as a supplementary food for the patients     with diabetic mellitus and cholesterol