

Curriculum Vitae

Kalpa W. Samarakoon

33/6, Neelammahara Road, Godigamuwa, Maharagama, Sri Lanka.

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Academic Background

Ph.D. (Marine Life Sciences) - 2014

Department of Marine Life Sciences, College of Ocean Sciences, cheju National University, 690-756, Republic of Korea,

Supervisor: You-Jin Jeon (PhD)

Dissertation Title: *Bioactive Natural Products from Cultured Marine Microalgae and Sri Lankan Marine Algae* **GPA: 4.39/4.5**

(<https://www.researchgate.net/profile/KalpaWishvajithSamarakoon>)

(<http://www.biomedexperts.com/KalpaWishvajithSamarakoon>)

(<http://www.pubfacts.com/author/Kalpa+Samarakoon>)

(<https://scholar.google.com/KalpaWishvajithSamarakoon>)

M.Sc. (Applied Organic Chemistry) - 2009

Faculty of Science, Department of Chemistry, University of Colombo, Sri Lanka

Supervisor: E. Dilip de Silva (PhD) <http://www.dilipdesilvachemistry.com>

Dissertation Title: *Isolation of Biological active compounds of some selected terrestrial Fungi of Sri Lanka* **GPA: 3.61/4.0**

B.Sc. Bio-Science (Chemistry) - 2004

Faculty of Science, Department of Chemistry, University of Colombo, Sri Lanka

Professional and Working Experience

- **Senior Lecturer Grade II – Research** **Dec 2020 - Present**
The KDU Institute for Combinatorial Advance Research and Education (KDU-CARE), General Sir John Kotelawala Defence University, 10390, Ratmalana, Sri Lanka
- **Senior Scientist (Policy Research) 2017- 2020**
National Science and Technology Commission, Sethsiripaya Stage II, Battaramulla, Sri Lanka.
- **Research Scientist (R& D) 2014 - 2017**
Cell Culture Lab, Herbal Technology Division, Industrial Technology Institute, Colombo 7
- **Graduated Research Assistant /PhD Scholar** **2010 - 2014**
Marine Biotechnology Lab, Department of Marine Life Sciences, College of Ocean Sciences, Jeju National University, Jeju 690-756, Republic of Korea,
- **Assistant Manager - Quality Control** **2007 - 2010**
Eastern and Allied Agencies Limited, 175, Kirula Road, Colombo 5, Sri Lanka
- **Production Assistant /Laboratory Chemist** **2005 - 2007**
Ceylon Specialty Fats (Pvt) Ltd, BEPZ, Biyagama, Sri Lanka
- **Production Chemist** **2004 - 2005**
Chempharama Pvt Ltd, Panadura Road, Waga, Horana, Sri Lanka

Funded Research Project /International Collaborations

- **Collaborative Research Project for MBT & Zebrafish Lab- Submitted**
Principal Investigator – Establishment of Marine Bio-resources Technology (MBT) and Zebrafish Laboratory at Industrial Technology Institute. Technical and Financial Assistance Project requested to be funded by **KOICA/Republic of Korea(60Mn LKR)- Industrial Technology Institute, Sri Lanka (2015/2020)**

Funded Research Projects - Completed

- **Principal Investigator/Co-Investigator - 2nd Phase** of the Biological activity evaluation system assistant project for nutraceutical applications of Sri Lanka native plants (Non endemic) - a collaborative research project of Korea Food

Research Institute (KFRI), *Funded by KFRI (USD 14,000)-Industrial Technology Institute, Sri Lanka (2017/2018)*

- **Principal Investigator - 1st Phase** of the Biological activity evaluation system assistant project for nutraceutical applications of Sri Lanka native plants (Non endemic)- a collaborative research project of Korea Food Research Institute (KFRI), *Funded by KFRI (USD 10,000)-Industrial Technology Institute, Sri Lanka (2016/2017)*
- **Principal Investigator** - Establishment of cell culture facility at Industrial Technology Institute - *Funded by Treasury Grants (SLR 4.5 Mn) - Industrial Technology Institute, Sri Lanka (2015/2016)*
- **Principal Investigator** - Investigation of Sri Lankan Marine Algae - in collaboration with Korea Institute of Ocean Science & Technology - *Funded by KIOST (USD 18,000)-Industrial Technology Institute, Sri Lanka (2015/2016)*

National Contribution

- Involved as the Coordinator and Project Team Leader of the Science, Technology and Innovation (STI) Policy Consultancy Collaborative Project between NASTEC and Science and Technology Policy Institute (STEPI) Korea 2018 – 2020.
- Involved as a consultant for the ‘Production’ thematic Initiative identified in the Agriculture Sector as the top priority strategic areas for the plan of action development as post-COVID era agreed upon both STEPI and NASTEC in line with Saubhagyadekma; the National Policy Framework in 2020/2021.
- Involved in the establishment of Global Observatory on Science, Technology and Innovation Policy Instruments Platform (GO – SPIN) National Team in Sri Lanka with the partnership of UNESCO as to the compilation of International STI Agreements signed by UNESCO member countries in achieving of SDG target 17.6
- Involved as the Coordinator and Team Leader of the Science, Technology and Innovation (STI) Policy updating Committee 2018/2019
- Involved in the Establishment of Senior Scientist Forum (SSF) in Sri Lanka
- Involved as the Coordinator to finalize the National Policy on Mineral Resources in 2019

Policy Research and Involvements

- Involved in the administrating, planning, implementing and reviewing of policies relevant to the development of Science and Technology and the applications of Science and Technology for National Development (Act No. 11 of 1994). In addition, Managing, Coordinating and contribution to the activities of Young Scientists Forum (YSF), expert committees, review panels and study groups appointed by NASTEC.

Research Interests

- Involved in the isolation and characterization of novel functional ingredients including secondary metabolites and bioactive peptides from marine or terrestrial organisms using organic solvent or enzyme assisted extractions. In addition, Pharmaceutical, nutraceutical and cosmeceutical prospects of the isolated extracts or bioactive components are evaluating with the advanced and recent biotechnological and chemical tools.

Research and Professional Competency in Subjects

- Marine Biotechnology; Natural Product Chemistry; Biotechnology, Organic Chemistry; Medicinal Chemistry, Pharmacology, Chromatographic and Spectrophotometer analysis (NMR, HPLC, UPLC, ESR, LC-MS/MS, GC-MS, FTIR), and applications of Cell culture, Western blot, Flow cytometry

Publications and Communications

Original Research Article - Peer Reviewed International

1. Gunathilaka TL, **Samarakoon KW**,Ranasighe P and Peiris LDC. (2020).Anti-Proliferative and Apoptotic Activity of Polyphenol-Rich Crude Methanol Extract of *Gracillaria Edulis* Against Human Rhabdomyosarcoma (Rd) and Breast Adenocarcinoma (Mcf-7) Cell Lines, **MDPI Proceedings - 1st International Electronic Conference on Biomolecules: Natural and Bio-Inspired Therapeutics for**

2. Gunathilaka TL, **Samarakoon KW**, Ranasighe P and Peiris LDC. (2019). *In-Vitro* Antioxidant, Hypoglycemic Activity, and Identification of Bioactive Compounds in Phenol-Rich Extract from the Marine Red Algae *Gracilaria edulis* (Gmelin) Silva. *Molecules*, 24, 3708 – 3724.
3. Fernando IPS, Sanjeewa KKA, **Samarakoon KW**, Lee WW, Kim HS, and Jeon YJ.(2018). Squalene isolated from marine macroalgae *Caulerpa racemosa* and its potent antioxidant and anti-inflammatory activities. *Journal of Food Biochemistry*. DOI: 10.1111/jfbc.12628
4. Fernando IPS, Sanjeewa KKA, **Samarakoon KW**, Lee WW, Kim HS, Ranasighe P, G.AS Premakumara, Lee HS and Jeon YJ. (2018). Preliminary Screening of Marine Flora harvested from Sri Lanka against the LPS-induced inflammatory responses in RAW 264.7 macrophages and in vivo zebrafish embryo model. *Journal of National Science Foundation of Sri Lanka*. 46 (3), 117-124.
5. Fernando IPS, Sanjeewa KKA, **Samarakoon KW**, Lee WW, Kim HS, Ranasighe P, Gunasekara UKDSS and Jeon YJ.(2018) Antioxidant and anti-inflammatory functionality of ten Sri Lankan seaweed extracts obtained by carbohydrase assisted extraction, *Food Science and Technology*, 27, 1761-1769.
6. Fernando IPS, Sanjeewa KKA, **Samarakoon KW**, Kim HS, Gunasekara UKDSS, Park YJ, Abeytunga DTU, Lee WW and Jeon YJ.(2018) The potential of fucoidans from *Chnoospora minima* and *Sargassum polycystum* in cosmetics: antioxidant, anti-inflammatory, skin-whitening, and anti-wrinkle activities, *Journal of Applied Phycology*, 30 (6), 3223-3232.
7. Ilekkuttige PSF, KaluKapuge AS, **Samarakoon KW**, Lee WW, Kim HS, Kang N, Ranasighe P, Lee HS and Jeon YJ. (2017). A fucoidan fraction purified from *Chnoospora minima*; a potential inhibitor of LPS-induced inflammatory responses. *International Journal of Biological Macromolecules*, 104, 1185-1193.
8. Ilekkuttige PSF, KaluKapuge AS, **Samarakoon KW**, Hetti Handi CL, Lee WW, Kim HS, Kim EA, Gunasekara UKDSS, Abeytunga DTU, Nanayakkara C, Silva ED, Lee HS, and Jeon YJ. (2017). FTIR Characterization and antioxidant activity of water soluble crude polysaccharides of Sri Lankan Marine Algae *ALGAE* 32(1), 75-86.
9. KaluKapuge AS, Ilekkuttige PSF, **Samarakoon KW**, Hetti Handi CL, Kim EA, O-Nam Kwon, Matharage GD, Lee JB and Jeon YJ. (2016).Anti-inflammatory and anti-cancer activities of sterol rich fraction of cultured marine microalga

Nannochloropsis oculata, *ALGAE* 31(3): 277-287.

10. Shah MMR, **Samarakoon KW**, An SJ, Jeon YJ, Lee JB. (2016). Growth characteristics of three benthic dinoflagellates in mass culture and their antioxidant properties. *Journal of Fisheries and Aquatic Science*, DOI: 10.3923/jfas.2016.
11. **Samarakoon KW**, Lakmal HHC, Kim SY, Jeon YJ. (2014). Electron spin resonance spectroscopic measurement of antioxidant activity of organic solvent extracts derived from the methanolic extracts of Sri Lankan Thebu leaves (*Costus speciosus*). *Journal of National Science Foundation of Sri Lanka*. 42 (3), 183-190.
12. **Samarakoon KW**, Ko JY, Le, JH, Nam OK, Jeon YJ. (2014). Apoptotic anticancer activity of a novel fatty alcohol ester isolated from cultured marine diatom, *Phaeodactylum tricornutum*, *Journal of Functional Foods* 6:231-240.
13. Chaminda Lakmal HH, **Samarakoon KW**, Lee WW, Lee JH, Abethunga DTU, Lee HS, Jeon YJ. (2014). Anticancer and antioxidant effects of some selected Sri Lankan Marine algae. *Journal of National Science Foundation of Sri Lanka*. 42 (4), 315-323.
14. Shah MMR, **Samarakoon KW**, Ko JY, Lee JH, Jeon YJ, Lee JB. (2014) Potentiality of benthic dinoflagellate cultures and screening of their bioactivities in Jeju Island, Korea, *African Journal of Biotechnology* 13(6): 792-805.
15. Kang MC, Kim SY, Kim YT, Kim EA, Lee SH, Ko SC, Wijesinghe WAJP, **Samarakoon KW**, Kim YS, Cho JH, Su J & Jeon YJ. (2014). In vitro and in vivo antioxidant activities of polysaccharide purified from Aloe vera (*Aloe barbadensis*) gel. *Carbohydrate Polymers* 99: 365-371.
16. Sharma N, **Samarakoon KW**, Gyawali R, Park YH, Lee SJ, Oh SJ, Lee TH, Jeong DK. (2014). Evaluation of the Antioxidant, an anti-inflammatory and anticancer activity of *Euphorbia hirta* ethanolic extracts. *Molecules*, 19, 14567-14581.
17. **Samarakoon KW**, Nam OK, Ko JY, Lee JH, Kang MC, Kim D, Lee JB & Jeon YJ. (2013). Purification and identification of novel angiotensin-I converting enzyme (ACE) inhibitory peptides from cultured marine microalgae (*Nannochloris oculata*) protein hydrolysate. *Journal of Applied Phycology* 25: 1595-1606.
18. **Samarakoon KW**, Ko JY, Shah MMR, Lee JH, Nam OK, Lee JB & Jeon YJ. (2013). *In vitro* studies of anti-inflammatory and anticancer activities of organic solvent extracts from cultured marine microalgae. *ALGAE* 28: 111-119.
19. Lee JH, Ko JY, **Samarakoon KW**, Oh JY, Heo SJ, Kim CY, Nah JW, Jang MK, Lee JS, Jeon YJ. (2013). Preparative isolation of sargachromanol E from *Sargassum siliquastrum*

by centrifugal partition chromatography and its anti-inflammatory activity. ***Food and Chemical Toxicology*** 62: 54-60.

20. **Samarakoon KW**, Lee JH, Dilip de Silva E, Kim EA, Wijesundara RLC, Lakmal, HHC & Jeon YJ. (2013). Bioactivity evaluation of organic solvent extractions of *Ganoderma lucidum*: a Sri Lankan Basidiomycete. ***Journal of the National Science Foundation of Sri Lanka*** 41(3):249-257.
21. **Samarakoon KW**, Cha SH, Lee JH & Jeon YJ. (2013). The growth, innate immunity and protection against H₂O₂-induced oxidative damage of a chitosan-coated diet in the olive flounder (*Paralichthys olivaceus*). ***Fisheries and Aquatic Science*** 16(3):149-158.
22. Kang N, Ko SC, **Samarakoon K**, Kim EA, Kang MC, Lee SC, Kim J, Kim YT, Kim JS, & Jeon YJ. (2013). Purification of Antioxidative Peptide from Peptic Hydrolysates of *Mideodeok (Stela clava)* Flesh Tissue. ***Food Science and Biotechnology*** 22: 541-547.
23. Kim KN, Kim JH, Yoon WJ, Yang HM, Heo SY, Ko JY, Roh SW, Jeon YJ, Kang SM, Heo SJ, **Samarakoon KW**, Kim DS, Kim D. (2013). Inhibitory effects of *Sargassum patens* on Inflammation and Melanogenesis. ***International Journal of Pharmacology***. DOI: 10.3923/ijp.2013.
24. Kang MC, Kang SM, Ahn G, Kim KN, Kang N, **Samarakoon KW**, Oh MC, Lee JS & Jeon YJ. (2013). Protective effect of a marine polyphenol, dieckol against carbon tetrachloride-induced acute liver damage in mouse. ***Environmental Toxicology and Pharmacology*** 35: 517-523.
25. Ko JY, Lee JH, **Samarakoon KW**, Kim JS & Jeon YJ. (2013). Purification and determination of two novel antioxidant peptides from flounder (*Paralichthys olivaceus*) fish using digestive peptidases. ***Food and Chemical Toxicology*** 52: 113-120.
26. **Samarakoon K**, Senevirathne M, Lee WW, Kim YT, Kim JI, Oh MC & Jeon YJ. (2012). Antibacterial effect of citrus press-cakes dried by High speed and far-infrared radiation drying methods. ***Nutrition Research and Practice*** 6(3): 187-194.

Research Review Articles- Peer Reviewed International

1. Gunathilaka TL, **Samarakoon KW**, Ranasinghe P and Peiris LDC. (2020). Antidiabetic Potential of Marine Brown Algae – a Mini Review, ***Hindawi Journal of Diabetes Research***, DOI.org/10.1155/2020/1230218.
2. **Samarakoon KW**, Elvitigala DAS, Lakmal HHC, Jeon YJ. (2014) Future Prospects

and Health Benefits of Functional Ingredients from Marine Bio-resources: A review. *Fisheries and Aquatic Science* 17 (3), 275-290.

3. **Samarakoon KW & Jeon YJ. (2012).** Bio-functionalities of proteins derived from marine algae-A review. *Food Research International* 48: 948-960.
4. **Samarakoon KW (2012).** Marine Biotechnology on algae derived proteins and bio-functional effects. *Journal of Animal Research* 2: 121-126.

Book Chapters- Peer Reviewed International

5. **Samarakoon KW & Jeon YJ. (2013).** Recovery of proteins and their bio-functionalities from marine algae, **Chapter 12, Marine Proteins and Peptides: Biological Activities and Applications**, John Wiley & Sons Ltd, West Sussex, PO198SQ, UK. 03/ 05/2013, pp. 253-269.
6. **Samarakoon KW, ChamindaLakmal HH, Jeon YJ. (2014).**Preparation of useful components from marine algal by-products and their applications, **Chapter 28. Advanced in Seafood Processing By-Products: Trends and Applications.** DOI 10.1007/978-1-4614-9590-1_26.
7. **Samarakoon K.W., Elvitigala D.A.S., Jeon Y.J** Marine-derived pharmaceuticals and future prospects, Application of Marine Biotechnology, **Chapter 41, Springer Handbook of Marine Biotechnology**DOI: 10.1007/978-3-642-53971-8_41, pp.957-968.
8. **Samarakoon K.W., Lakmal H.H.C., Jeon Y.J.** The Prospects of Marine Organisms and their Pharmacological and Nutraceutical Aspects. **Chapter, Volume 42, Recent Progress in Medicinal Plants, Studium Press India Pvt Ltd.**
9. Lakmal H.H.C., **Samarakoon K.W., Jeon Y.J.** Enzyme-assisted extraction to prepare bioactive peptides from microalgae. **Chapter 18, Marine Algae Extracts : Processes, Products, and Applications**, DOI: 10.1002/9783527679577, pp.305-318

Other Research Communications :

1. **Kalpa W. Samarakoon**, Equipped with anti-cancer qualities Thebu Leaves (English and Sinhala version), in '**Vidiya Magazine**' published by Ministry of Research, Science and Technology, 25th May 2016.
2. **Kalpa W. Samarakoon**, *Would be the Costusspeciosus (thebu) leaf extracts become*

remedy against non-communicable diseases?’ in DIGEST, published by Link Natural Products, 2017

3. **Kalpa W. Samarakoon**, ‘How marine algae would effect for well-being and future prospects ‘ broadcasted in “**WIDU LOVA**”, at 9. 20 pm on 13th and 20th October 2016 as an invited interview at Sri Lanka Broadcasting Cooperation (SLBC).
4. **Samarakoon K.W. (2014)**. Bioactive Natural Products from Cultured Marine Microalgae and Sri Lankan Marine Algae, ***Thesis submitted for the partial fulfillment of the PhD in Marine Life Sciences***. Jeju National University, Republic of Korea.
5. **Kalpa W. Samarakoon**. Natural Products from Sri Lankan Marine Algae and their Future Prospects. ***Sathsamudhara Magazine 2014***, World Oceans Day. Sri Lanka.
6. **Kalpa W. Samarakoon**, You-Jin Jeon. Marine algae derived proteins and their bio-functional effects. ***RESONANCE 2013 Edition***, Chemical Society, University of Colombo, pp 105-108.
7. **Kalpa Samarakoon**, Md. Mahfuzur Rahman Shah. ***Microalgae biomass culturing and their biochemical analysis***. Jeju Sea Grant Project 2013. Jeju National University, Jeju, Republic of Korea.
8. **Samarakoon KW. (2009)**. Isolation of Biological active compounds of some selected terrestrial Fungi of Sri Lanka, ***Thesis submitted for the partial fulfillment of the M.Sc in Applied Organic Chemistry***, University of Colombo.

Awards - International

9. Poster Award:

Sanjeewa K.K.A. **Samarakoon KW**, Ko JY, Le, JH, Nam OK, Jeon YJ. Apoptotic anticancer activity of a novel fatty alcohol ester isolated from cultured marine diatom, *Phaeodactylum tricornutum*. **The 6th International Conference on Food Factors (ICOFF- 2015) 25th November 2015** in Seoul, South Korea.

Conference Proceedings :

Oral presentations:

10. MDTL Gunathilaka, **KW Samarakoon**, P Ranasinghe, LDC Peiris In-vitro Antidiabetic Properties of Methanol Extract and Its Fractions of Sri Lankan Marine Red algae *Gracillaria edulis* (Gmelin) Silva, **Proceedings of International Forestry and Environment Symposium, 2018**

11. **Kalpa W. Samarakoon**, Bio-functionalities of Sri Lankan Seaweeds and Future Prospects. **Invited Guest Lecture**, Organized by **Section D, Sri Lanka Association for the Advancement of Science (SLAAS)** on 15th May 2017 at SLAAS Auditorium, Colombo 7.
12. **Kalpa W. Samarakoon**, I.P.S Fernando, U.K.D.S.S. Guneseekara, G.A.S. Premakumara, P Ranasinghe, You-Jin Jeon. Purification of Fucoidan with anti-inflammatory properties using enzyme-assistant extraction from Sri Lankan Marine brown algae; *Chnoospora minima*. **2nd International Conference on Bio Science and Biotechnology 2017 at Taj Samudra, Colombo**, on 9th -10th Mach, Abstract no 160. P 12.
13. **Kalpa W. Samarakoon**, I.P.S Fernando, U.K.D.S.S. Guneseekara, G.A.S. Premakumara, P Ranasinghe, Lakmal Jayarathne, R.C.L. de Silva, You-Jin Jeon. FTIR Spectroscopic Analysis and Antioxidant Activities of Crude Polysaccharides from Sri Lankan Marine Algae. **Sri Lanka Association for the Advancement of Science (SLAAS), Proceeding of the 72nd Annual Sessions 2016**, Abstract Number 601/E2. P. 54
14. G. A. Batugethara, **Kalpa W. Samarakoon**, U.K.D.S.S. Guneseekara, P Ranasinghe. Antioxidant activity, approximate chemical composition and metal ion analysis of some selected Sri Lankan marine algae, **Sri Lanka Association for the Advancement of Science (SLAAS), proceeding of the 72nd Annual Sessions 2016**, Abstract Number 607/E2. P.55
15. **Kalpa W. Samarakoon**, I.P.S Fernando, U.K.D.S.S. Guneseekara, G.A.S. Premakumara, P Ranasinghe, You-Jin Jeon. Investigation of *in vitro* bioactivities, targeted isolation of bioactive compounds from Sri Lankan sea grapes, *Cauleparacemosa*. **The institute of Biology Sri Lanka, Proceeding of the 36th Annual Sessions 2016**, Abstract Number 1-03. P.23
16. **Kalpa W. Samarakoon**, I.P.S Fernando, U.K.D.S.S. Guneseekara, G.A.S. Premakumara, P Ranasinghe, You-Jin Jeon. In vitro antioxidant, anticancer and anti-inflammatory properties of the solvent fractions of three intertidal Marine floras harvested from Kalpitiya, Sri Lankan. **9th International Research Conference**, 8th and 9th September 2016 at General Sir John Kotelawala Defense University, Sri Lanka. P. 186.
17. **Kalpa W. Samarakoon**, H. H.C. Lakmal, E D de Silva, D T U Abeytung, C Nanayakkara, You-Jin Jeon. Electron spin resonance, ABTS+ on-line HPLC and in vitro antioxidant activities of Sri Lankan brown alga: *Padina commersonii*. **Sri Lanka Association for the Advancement of Science (SLAAS), Proceeding of the 71st**

Annual Sessions 2015, Abstract Number 605/E2.

- 18. Kalpa W. Samarakoon**, H. H.C. Lakmal, D.T.U. Abethunga, You-Jin Jeon. Isolation of Bioactive Natural Products from Some Selected Sri Lankan Seaweeds. Abstract Number 50, **Second National Symposium on Marine Environment 2015**, by MEPA 18th– 19th November 2015 at Sri Lanka Foundations, Colombo 7.
- 19. Kalpa W. Samarakoon**, H.H.C. Lakmal, You-Jin Jeon. Determination and Isolation of marine derived Secondary Metabolites in Sri Lankan Marine Algae through Electron Spin Resonance, ABTS⁺ on-line HPLC and High performance Centrifugal Partition Chromatography (HPCPC), **ITI Biennial Research Symposium 2015, Theme: Science, Technology and Innovation for Knowledge based Economy**, 16th – 17th November 2015 at ITI, Colombo 7.
- 20. Kalpa W. Samarakoon**, H. H.C. Lakmal, Prasad Tharanga Jayasooriya, You-Jin Jeon. Inhibitory Effect on Human Leukemia (HL-60) Cancer Cell Proliferation via Caspase-3 mediated Apoptosis by *Costusspeciosus* (Koen.) Sm. Leaf Extract. **The institute of Biology Sri Lanka, Proceeding of the 35th Annual Sessions 2015**, Abstract Number 3-04.
- 21. Kalpa W. Samarakoon**, G.A.S. Premakumara, P Ranasinghe, H. H.C. Lakmal, You-Jin Jeon. Antioxidant and in vitro anti-inflammatory activities of the selected Sri Lankan marine algae. **World Aquaculture 2015, The Annual International Conference and Exposition**, 26-30th May 2015 in ICC, Jeju, South Korea, Abstract _272_57.
- 22. Kalpa W. Samarakoon**, You-Jin Jeon. Evaluation of antioxidant, anti-inflammatory and anticancer activity of solvent extracts from Sri Lankan Thebu leaf (*Costus speciosus*). **Sri Lanka Association for the Advancement of Science (SLAAS), proceeding of the 70th Annual Sessions 2014**, Abstract Number 606/E2.
- 23. Kalpa W. Samarakoon**, E. Dilip de Silva, You-Jin Jeon. In vitro anti-inflammatory, anticancer, and antioxidant effects from a terrestrial basidiomycete; *Ganoderma lucidum*. **The institute of Biology Sri Lanka, Proceeding of the 34th Annual Sessions 2014**, Abstract Number 2-12, 52.
- 24. Samarakoon, K.**, Ko, J.Y., Lee, J.H. & Jeon, Y.J. Isolation of bioactive compounds from cultured marine microalgae (blue green algae and diatom) through the enzymatic and organic solvent extractions. **Kongju National University**, Chungcheongnam-do, South Korea, 24th October 2012.
- 25. Samarakoon, K.**, Cha, S. H. & Jeon, Y. J. Protective effect against H₂O₂-induced oxidative damage on olive flounder (*Paralichthys olivaceus*) fed with chitosan-coated diet in aquaculture. **International Conference on Fisheries & Marine**

Science (Marine Fish 2012), 23-24 August 2012, Negombo, Sri Lanka.

26. **Samarakoon, K.**, Cha, S. H. & Jeon, Y. J. Growth, Innate immunity and protective effect of (*Paralichthys olivaceus*) fed chitosan-coated diet in aquaculture. **10th AFAF, CAA4 2013, Blue waters and Green fisheries**. 30th April-4th May 2013, The Ocean Resort Hotel, Yeosu, Korea.

Poster presentations:

27. **Samarakoon KW**, Fernando IPS, Guneseckara UKDSS, Snajeewa KKS, Ranasighe P, Premakumara GAS, Jeon YJ. (2017). A fucoidan isolated from Sri Lankan Marine Brown Alga, *Chnoospora minima*; a potential inhibitor of LPS-induced inflammatory responses, **10th International Research Conference KDU, Basic and Applied Sciences**, 3rd and 4th August 2017 at General Sir John Kotelawala Defense University, Sri Lanka.
28. Lee, J.B., Shah, M.M.R., An, S.J., **Samarakoon, K.** and Jeon, Y.J., 2015, January. Potentiality of benthic dinoflagellate cultures and screening of bioactivities from Jeju island, Korea. In *European Journal of Phycology* (Vol. 50, pp. 142-142). 4 Park Square, Milton Park, Abingdon OX14 4rn, Oxon, England: Taylor & Francis Ltd. DOI:10.1080/09670262.2015.1069493
29. H. H. Chaminda Lakmal, **Kalpa W. Samarakoon**, Ju-Young Ko, Ji-Hyeok Lee, You-Jin Jeon. A novel fatty alcohol ester isolated from the cultured marine diatom. *Phaeodactylum tricornutum* and apoptosis induced anticancer activity. **Innovations in Food Science for Human well-being. Annual Meeting Korean Society of Food Science and Technology**. 28th -30th August 2013, Cheonan Arts center, South Korea.
30. Ju-Young Ko, Ji-Hyeok Lee, **Kalpa W. Samarakoon**, You-Jin Jeon. Protective effect of aquaculture flounder fish-derived peptides against oxidative stress in Zebrafish. **The 10th Korean Zebrafish Meeting**, July 5-6, 2013. KNU, Daegu, Korea.
31. Neelesh Sharma, **Kalpa W. Samarakoon**, Simrinder Singh Sodhi, Anh Nguyen Thai Quynh, Do Luong Huynh, Jeong Hyun Kim, Nameun Kim, Sung Jong Oh and Dong-Kee Jeong. *In-vitro* anti-oxidant and anti-inflammatory activity of ethanolic extract of an Asian hairy herbal plant. 27-28th June, Korean Society of Animal Science, Jeju, Republic of Korea.
32. **Kalpa W. Samarakoon**, Ji-Hyeok Lee, Ju-Young Ko, You-Jin Jeon. Anti-inflammatory and anticancer activities from the cultured marine microalgae derived crude extracts. **10th AFAF, CAA4 2013, Blue waters and Green fisheries**. 30th April-4th May 2013, The Ocean Resort Hotel, Yeosu, Korea.

33. **Kalpa W. Samarakoon**, Ju-Young Ko, Ji-Hyeok Lee, O-Nam Kwon, You-Jin Jeon. Angiotensin-I converting enzyme inhibitory peptides isolation and purification from the protein hydrolysate of microalgae, *Nannochloris oculata*. **International Conference and Exhibition on Nutraceuticals and Functional Foods 2012**, Dec. 1-6, 2012. Kailua- Kona, Hawaii, USA
34. **Kalpa Samarakoon**, Ji-Hyeok Lee, Ju-Young Ko, Kwon-O.Nam, You-Jin Jeon, Apoptosis-inducing Anticancer and Anti-inflammatory compounds from a cultured marine diatom, *Phaeodactylum tricornutum*. **The 17th Annual Meeting of Korean Society of Cancer Prevention**, Nov. 9~10, 2012, Sungshin Women's University (Woonjung Green Campus), Seoul, Korea.
35. Ji-Hyeok Lee, Ju-Young Ko, **Kalpa W. Samarakoon**, You-Jin Jeon, Anti-cancer activity of pure new fucosteroid isolated from *Hizikia fusiformis* using centrifugal partition chromatography (CPC). **The 17th Annual Meeting of Korean Society of Cancer Prevention**, Nov. 9~10, 2012, Sungshin Women's University (Woonjung Green Campus), Seoul, Korea.
36. **Kalpa W. Samarakoon**, Ju-Young Ko, Ji-Hyeok Lee, O-Nam Kwon, You-Jin Jeon. The characterization of angiotensin-I converting enzyme inhibitory peptides from marine microalgae. **Quality of Life (QOL): Food Industry and Health, 2012 KFN International Symposium and Annual Meeting**, Oct. 31-Nov. 2, 2012, ICC Jeju, Jeju, Korea.
37. **Kalpa W. Samarakoon**, Ju-Young Ko, Ji-Hyeok Lee, O-Nam Kwon, You-Jin Jeon. Identification of novel antihypertensive peptides from the protein hydrolysates of *Nannochloris oculata*. **Algae and the Human Future, The 26th meeting of the Korean Society of Phycology**, October 25-26th 2012, Gangneung, Ganwon-do, Korea.
38. Md. Mahfuzur Rahman Shah, **Kalpa Samarakoon**, et al. Biomass production and screening of anti-inflammatory, anticancer, and antioxidant activities from benthic dinoflagellates of Jeju Island, Korea. **Algae and the Human Future, The 26th meeting of the Korean Society of Phycology**, October 25-26th 2012, Gangneung, Ganwon-do, Korea.
39. Ju-Young Ko, Ji-Hyeok Lee, **Kalpa Samarakoon**, You-Jin Jeon. Anti-cancer activity of purified compounds isolated from *Hizikia fusiformis* using centrifugal partition chromatography (CPC). **Algae and the Human Future, The 26th meeting of the Korean Society of Phycology**, October 25-26th 2012, Gangneung, Ganwon-do, Korea.

- 40. Samarakoon, K.,** Ko, S.C., Jeon, Y. J. Isolation and purification of angiotensin-I converting enzyme (ACE) inhibitory peptides from marine microalgae. **International Conference on Fisheries & Marine Science (Marine Fish 2012)**, 23-24 August 2012, Negombo, Sri Lanka.
- 41. Samarakoon, K.,** Senevirathne, M. & Jeon, Y. J. The effect of antibacterial activity of dried citrus press-cakes against fish and food-related pathogenic bacteria. **A New Era of Biotechnology and Bioeconomy, 2012 International Symposium & Annual Meeting**, June 27-29, 2012, BEXCO, Busan, Korea.
- 42. Samarakoon, K. W.,** Wijesinghe, W. A. J. P. & Jeon, Y. J. Biologically active proteins from marine algae for bio-functional applications. **Fishery Sciences Association of Korea (FSAK)**, November 18-19, 2011, BEXCO, Busan, Korea.
- 43. Wijesinghe, W. A. J. P., Samarakoon, K.,** Lee, W. W. & Jeon, Y. J. Use of enzymatic cell wall degradation and release of bioactive components from seaweeds. **Fishery Sciences Association of Korea (FSAK)**, November 18-19, 2011, BEXCO, Busan, Korea.
- 44. Samarakoon, K.W.,** Wijesinghe, W. A. J. P., Athukorala, Y. & Jeon, Y. J. Anticoagulant activity of fucoidan purified from *Ecklonia cava* in wistar rats. **International Conference of Food Factors (ICoFF2011)**, November 20-23, 2011, Taipei, Taiwan.
- 45. Samarakoon, K. W.,** Wijesinghe, W. A. J. P., Athukorala, Y. & Jeon, Y. J. Anticoagulant activity of fucoidan purified from *Ecklonia cava* in wistar rats. **The 6th Asian Pacific Phycological Forum (APPF)**, October 9-14, 2011, Yeosu, Korea.

Recognitions/Membership/Fellowship

- **Chartered Biologists** – Institute of Biology Sri Lanka Since 2020
- **Member- American Chemical Society (ACS):** Membership Number: 30192310
- **Life member-** Institute of Biology in Sri Lanka since 2015
- **Member - National Science Foundation (NSF),** Science and Technology Management Information System (STMIS) in Sri Lanka Registration Number: NSF/STMIS/15/6542
- **Member - Sri Lanka Association of Advancement of Science (SLAAS-9721/E₂)**
- **Life Member - Young Scientist Forum (YSF)** in National Science and Technology Commission, Sri Lanka. **Membership Number: Y/S/15.**

Responsibilities/Coordinator/Resource Persons

- **Assistant Editor** – Council of the Institute of Biology Sri Lanka 2020/2021
- **Visiting Lecturer** of Marine Biotechnology (MB 4903) and Selected Topics of Biotechnology (MB 4904) - **Department of Chemistry, Faculty of Sciences, University of Colombo** in academic year 2019/2020
- **Coordinator/Chief Organizer – Workshop on ‘The Assessment of National STI system of Sri Lanka’**; A collaboratively organized programme with Science and Technology Policy Institute, Korea (STEPI) and National Science and Technology Commission at Central Banking Studies (CBS) 19th – 21st November 2019.
- **Coordinator/Chief Organizer - 8th Young Scientist Forum (YSF) Research Symposium - 2018** at Construction Industrial Development Authority (CIDA), Colombo 07 held on 30th January 2019
- **Visiting Lecturer** of Marine Biotechnology (MB 4903) - **Department of Chemistry, Faculty of Sciences, University of Colombo** in academic year 2018
- **Coordinator/Chief Organizer – Workshop on Capacity Building in STI Policy Formulation and R&D Commercialization**; A collaboratively organized programme with Science and Technology Policy Institute, Korea (STEPI) and Ministry of Science, Technology and Research at Sri Lanka Institute of Development Administration (SLIDA) 31st May – 05th June 2018.
- **Coordinator/Chief Organizer - 7th Young Scientist Forum (YSF) Research Symposium - 2018** at Waymba University of Sri Lanka held on 19th January 2018
- **Coordinator** - Mini workshop on ‘**Towards High Impact Journal Publication and Proposal Writing**’ Organized by YSF/NASTEC in collaboration with University of Sri Jayewardenapura held on 05th January 2018.
- **Resource Person - Postgraduate Research Review Progress Meeting** at University of Sri Jayewardenapura held on 08th November 2017 subsequently attended as **Examiner** on M.Phil Degree Thesis at FGS, USJP on 27.02.2020.
- **Coordinator** - 1st National Undergraduate Research Symposium-2017 organized by National Science and Technology Commission as per the promotion of National Research and Development Framework (NRDF)
- **Chief Coordinator** - Safety in Chemical and Microbiological Laboratories (two day-training seminar), Industrial Technology Institute, Sri Lanka (2014 and 2015)
- **Resource Person** - Safety Awareness Program in the Department of Biology,

University of Jaffna on 9th and 10th December 2014

- **Resource Person** - Advanced Instrumental Techniques under the title of High Performance Centrifugal Partition Chromatography (HPCPC) and On-line HPLC ABTS⁺ Techniques at Industrial Technology Institute on 23rd of August 2014.
- **Project Coordinator** - Eastern and Allied Agencies Limited for implementing ISO of ISO 22000:2005 (Food Safety Management System/HACCP) for fresh produce (2008/2009)
- **Committee member & Coordinator** - Chemical Society at University of Colombo (2002/2003).
- **Committee member** - Science Society at University of Colombo (2002/2003).
- **Senior Prefect**- National School of Welimada (1999/2000).

Positions and Performances:

- **Chairman of the Disposal Committee** - National Science and Technology Commission (2019)
- **Member of the Department of Procurement Committee (DPC) minor contract** - National Science and Technology Commission (2019)
- **Energy Manager** - National Science and Technology Commission (2017 to present)
- **Coordinator - Young Scientist Forum (YSF), NASTEC** (2017/2018)
- **Coordinator - Senior Scientist Forum (SSF), NASTEC** (2019)
- **Secretary** - Research Officer's Associations (ROA) Industrial Technology Institute, Sri Lanka (2017)
- **Assistant secretary** - Research Officer's Associations (ROA) Industrial Technology Institute, Sri Lanka (2016/2017)
- **Committee member** - Research Officer's Associations (ROA) Industrial Technology Institute, Sri Lanka (2014/2016)
- **President of JISO** - Jeju National University International Student Organization (JISO) - Jeju National University, South Korea (2012/2013) (<http://www.jiso.or.kr>)
- **Instructor** - Japan Karate (Shotokan) Association (Black belt Grade I).
- **Panel member** - Inception Workshop for the Project on 'Implementation of the National Biosafety Framework in accordance with the Cartagena Protocol on

Biosafety (CBP) on 29th and 30th August 2017, BCIS Auditorium, BMICH, Colombo 7.

- **Project Manager** - Implemented the contract between Korea Institute of Ocean Science & Technology (**KIOST**), Korea and Colombo Science and Technology Cell (**CELL**), Sri Lanka, for a collaborative Project titled “**Investigation of Sri Lankan Marine Algae**”

Supervision of Students

Ph.D. degrees

- **Co-Supervisor** of Mrs. Thilina Gunathilaka (Department of Zoology, Faculty of Applied Sciences, University of Sri Jayewardenapura). Therapeutic potential and molecular characterization of compounds isolated from selected marine algae in Sri Lanka (Collaborative Project with Industrial Technology Institute, Fund #)
- **Invited External Supervisor** of Mr. Mano Sarvan Guru. M (Ref. No. 20117501027/PhD/AR5), A PhD Thesis of titled ‘Extraction, purification, characterization of sulphated polysaccharides from marine algae and studies on biological and immunomodulatory activity’, **Faculty of Science and Humanities, Anna University, Chennai. – 2017**

M.Phil. degrees

- **External Examiner:** The thesis submitted for M.Phil. Degree (**1503LS2016004**) titled ‘**Antifouling Potential of Some Marine Organisms**’, Faculty of Graduate Studies, University of Sri Jayewardenapura, Nugegoda.
- **Co-Supervisor** of Mr. Sameera Liyanage (Department of Plant Sciences, Faculty of Sciences, University of Colombo), Bioassay guided fractionation and isolation of bioactive natural compounds from Bryophyta. (Collaborative Project with Industrial Technology Institute, Fund # CP-100)

Undergraduates

- **Supervisor** of Miss. JABSG Jayasuriya (Department of Agricultural Resources Management & Technology - University of Ruhuna, titled ‘Phytochemical screening of 10 wild fruit samples in Sri Lanka.’
- **Supervisor** of Miss. Yuraji C. Mahindadasa (Department of Botany, University of Sri Jayewardenapura) titled ‘Formulation of Sun Protection cream using Sri Lanka Thebu leaf

extract and Spirulina’

- **Supervisor** of Miss. G.A. Batugedara (Department of Botany, University of Peradeniya) titled ‘Antioxidant activity and related properties of common marine algae in Sri Lanka’
- **Supervisor** of Miss. S. Sathyakumar (Faculty of Agriculture and Plantation Management, University of Wayamba) titled ‘Sterilization Protocol for the Sri Lankan Green Algae *Caulerpa racemosa* and It’s Antioxidant Activity’

Editorial Member and Reviewing Papers in Symposiums

- **International Research Symposium of Uva Wellasa University (IRSUWU-2018)**

International Training and Workshops Participated

- **Delegation and Expert** - Expert Meeting and Seminar on Supporting Improvement of STI Policy and Institutional Framework of Sri Lanka, Organized by Science and Technology Policy Institute (STEPI), 24th -29th June, **2019** at the Shilla Hotel, Seoul, **South Korea**.
- **Country Participant** - International Training Workshop on Developing Effective Science, Technology and Innovation (STI) Policy, 6th - 8th March 2019 at the UNESCO Regional Center for Biotechnology (RCB) in Faridabad, **India**.
- **Country Participant** - International Training Programme on STI Policy and Management for Developing Countries (ITPS), 6th - 10th August 2018 organized by the Center for Science and Technology of the Non-Aligned and other developing countries (NAM S&T) and International Science, Technology and Innovation Center (ISTIC) in Kuala Lumpur, **Malaysia**.

Non-Related Referees

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I do hereby certify that the particulars furnished above are true and accurate to the best of my knowledge.

Date:

Kalpa W. Samarakoon (PhD)