CURRICULUM VITAE

Prof. H.K.I. Perera
Department of Biochemistry
Faculty of Medicine
University of Peradeniya

Curriculum Vitae - Kumudu Perera

Full Name: Handunge Kumudu Irani Perera

Designation: Senior Professor in Biochemistry

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1. Academic and professional qualifications

1.1. Ph.D. in Biochemistry and Molecular Biology (2003), University of Glasgow, UK. Title: Studies of post-Golgi syntaxins in trafficking of GLUT4 in 3T3-L1 adipocytes

1.2. M.Phil. in Biochemistry (1999), Faculty of Medicine, University of Peradeniya. Title: Isolation, purification, and characterization of acid proteinases from porcine ovary

1.3. B.V.Sc. (1991), University of Peradeniya. Second class honors (Equivalent to upper class) with distinctions in Anatomy, Parasitology, Medicine, and Animal Science

1.4. Fellow of College of Veterinary Surgeons, Sri Lanka

1.5. Member of College of Biochemists, Sri Lanka

2. Current Position and Work experience

2.1. Senior Professor in Biochemistry (Department of Biochemistry) from 28.11.2024 to date

2.2. Professor in Biochemistry (Department of Biochemistry) from 28.11.2016 to 27.11.2024

2.3. Head of the Department (Department of Biochemistry) from 31.03.2017 to 30.03.2020

2.4. Senior lecturer Grade I (Department of Biochemistry) from 19.12.2006 to 27.11.2016

2.5. Commonwealth Academic Fellow (University of Glasgow, UK) from 01.10.2012 to 31.12.2012

2.6. Senior lecturer Grade II (Department of Biochemistry) from 10.11.1999 to 18.12.2006

2.7. Commonwealth Scholar (University of Glasgow, UK) from 15.01.2000 to 14.01.2003

2.8. Lecturer (Department of Biochemistry) from 29.02.1992-09.11.1999

2.9. Temporary Assistant Lecturer (Department of Biochemistry) from 22.04.1991 to 29.02.1992

3. Contributions in undergraduate teaching

3.1. Contributions as a teacher

3.1.1. Faculty of Medicine- From 1991 to date

3.1.2. Faculty of Dental Sciences- 2008, 2009, 2010, 2014, 2015, 2016

3.1.3. Faculty of Allied Health Sciences- 2007, 2008, 2009

3.2. Contributions as a chief examiner/ examiner of undergraduate programs

3.2.1. Faculty of Medicine, University of Peradeniya- from 2003 to date

3.2.2. BSMS program, Trincomalee Campus, Eastern University- 2016 to date

3.2.3. Faculty of Dental Sciences, University of Peradeniya- 2008, 2009, 2010, 2014, 2015, 2016, 2024, 2025

3.2.4. Faculty of Allied Health Sciences, University of Peradeniya- 2007, 2008, 2009

3.2.5. Faculty of Medicine and Allied Sciences, Rajarata University- 2008 and 2009

3.2.6. Undergraduate research projects, Faculty of Veterinary Medicine, and Animal Science 2019

3.2.7. Examiner, 2nd MBBS examination, Uva Wellassa-2025

4. Contributions in postgraduate teaching

4.1. Contributions as a teacher

4.1.1. Postgraduate Institute of Science- M.Sc. in Clinical Biochemistry Program- from 2004 to date

4.1.2. Postgraduate Institute of Science- M.Sc. in Experimental Biotechnology program-from 2004 to date

4.2. Contributions as an examiner of postgraduate programs

4.2.1. Postgraduate Institute of Science- M.Sc. in Clinical Biochemistry Program- from 2004 to date

4.2.2. Postgraduate Institute of Science- M.Sc. in Experimental Biotechnology program-from 2004 to date

4.2.3. Postgraduate institute of Agriculture, University of Peradeniya- M.Sc. in Food and Nutrition, 2019 to date.

4.2.4. M.Phil. and Ph.D. thesis, Faculty of Veterinary Medicine, and Animal Science, University of Peradeniya

4.2.5. Ph.D. thesis, Faculty of Dental Sciences, University of Peradeniya

4.2.6. M.Phil. thesis, University of Ruhuna

5. Contributions Curriculum development and implementation

5.1. Curriculum development and implementation- "Beyond 2004 curriculum for medical degrees"

5.2. Course director - to develop the outline of the curriculum for year 1-4 in the Growth, Development and Nutrition module -2006

5.3. Vice Chairperson of the Curriculum Coordinating Centre from 2006- 2009

5.4. Convener of planning and implementation committee "Y" from 2005-2009

5.5. Member of planning and implementation committee "Y" from 2004- 2009

5.6. Member of curriculum coordinating committee from 2004 to 2010

5.7. Member of curriculum development committee from 2005 to date

5.8. Contributed to the accreditation of the overall medical program by national-level committees such as the Sri Lanka Medical Council in 2019 as the Head of the Department

5.9. Contributed to the accreditation of the overall medical program by national-level committees such as the Sri Lanka Medical Council in 2022 as the Department representative

5.10. Module coordinator

5.10.1. Alimentation Module- 2005 and 2006

5.10.2. Foundation Module- from 2007 to 2015

5.10.3. Applied Biochemistry II-2025

5.11. Coordinator of the Curriculum revision of the Foundation Module-2013

6. Contributions to research and scholarly work

6.1. Supervision of postgraduates and undergraduates and selected achievements

6.1.1. Supervision of postgraduate students

6.1.1.1. Supervisor of Ph.D. (Degrees awarded)

6.1.1.1.1. Ph.D. in Biochemistry and Molecular Biology. W.I.T. Fernando. Title: Inhibitors of digestive enzymes from some medicinal plants and the isolation and identification of lipase inhibitors from *Trigonella foenum-graecum*".

6.1.1.2. Supervisor of M.Phil. (Degrees awarded)

6.1.1.2.1. M.Phil. in Biochemistry & Molecular Biology- D.C.R. Wijetunge. Title: Development of a new strategy to detect protein glycation and assessment of protein glycation inhibitory potential of medicinal plants.

6.1.1.2.2. M.Phil. in Biochemistry & Molecular Biology- Jeyakumaran Poongunran**.** Title: Identification and isolation of potential antidiabetic compounds from Sri Lankan medicinal plants.

6.1.1.3. Supervisor of M.Sc. (Degrees awarded)

6.1.1.3.1. M.Sc. in Clinical Biochemistry- Oshani Dheerasekera. Title: Antiglycation effects of some medicinal plants used to treat skin conditions.

6.1.1.3.2. M.Sc. in Clinical Biochemistry- Gayani Nilmanel. Assessment of in vitro antidiabetic effects of *Terminalia arjuna*, *Saraca asoca* and *Mimosa pudica*.

6.1.1.3.3. M.Sc. in Clinical Biochemistry- M.M.M. Shafras. Title: Comparison of glycemic control and anthropometric parameters before and after Ramadan fasting in a selected cohort of patients with type 2 diabetes mellitus in Sri Lanka.

6.1.1.3.4. M.Sc. in Clinical Biochemistry- C.S. Handuwalage. Title: Protein glycation inhibitory potential of plants with anti diabetic effects.

6.1.1.3.5. M.Sc. in Clinical Biochemistry- H.A.S.K. Ranasinghe. Title: Development of two methods to detect inhibitors of protein glycation at different stages.

6.1.1.3.6. M.Sc. in Clinical Biochemistry- S.L. De Silva. Title: Partial purification of and α-amylase inhibitor from *Syzygium cumini.*

6.1.1.3.7. M.Sc. in Clinical Biochemistry- B.D.S. Jayawardena. Title: Protease inhibitory activity of some medicinal plants in Sri Lanka.

6.1.1.3.8. M.Sc. in Clinical Biochemistry- D.B.G.M. Ekanayake. Title: Analysis of samples of clinically suspected dengue patients using RT-PCR and other blood parameters.

6.1.1.3.9. M.Sc. in Experimental Biotechnology- A.S. Manamperi. Title: Screening, isolation and purification of potential antiparasitic compounds from medicinal plants.

6.1.1.3.10. M.Sc. in Analytical Chemistry- B.W.N.S.K. Abeywardana. Title: Characterization of acid proteinases and analysis of their expression in porcine ovaries.

6.1.1.3.11. M.Sc. in Biotechnology- M.A.P. Makawita. Title: “Rapid detection and typing of Dengue viruses in Sri Lanka”.

6.1.2. Supervisor of Mater of Science independent studies

6.1.2.1. Subanki Loganathan- M.Sc. in Clinical Biochemistry- Completed

Review paper: Prevalence and impact of thyroid dysfunction in diabetes mellitus.

Project proposal: Prevalence of thyroid dysfunction in patients with type 2 diabetes mellitus attending the Diabetes Clinic at District General Hospital, Vavuniya.

6.1.2.2. Y.M.S Udara- M.Sc. in Clinical Biochemistry- Completed

Review paper: Novel and conventional biomarkers of chronic kidney disease.

Project proposal: Assessment of selected novel biomarkers in different stages of chronic kidney disease.

6.1.2.3. S.M.C. Jayathilake- M.Sc. in Clinical Biochemistry- Submitted to the Board of study for evaluation

Review paper: Antidiabetic mechanisms of eight medicinal plants used to treat diabetes.

Project proposal: In vivo Anti-inflammatory and Antidiabetic potential of crude leaf extracts of *Gymnema Laciferum*.

6.1.2.4. H.M.W.R. Bandara- M.Sc. in Clinical Biochemistry- Submitted to the Board of study for evaluation

Review paper: Antidiabetic activity of *Strychnos potatorum* seeds.

Project proposal: Clinical efficacy of *Stychnos potatorum* seeds porridge in the management of Type 2 diabetes mellitus.

6.1.3. Supervision of undergraduate students

6.1.3.1. Antiglycation properties of aqueous extracts from selected plant species: An In vitro Study. N.H.M.V.N. Senevirathne (2022).

6.1.3.2. *In-vitro* screening of antidiabetic and antiglycation potential of *Solanum nigrum*. S.T. Pabasara (2018).

6.1.3.3. Antiparasitic compounds from *Solanum indicum.* U.V.R. Senaratne (2011).

6.1.3.4. Analysis of activity of acid proteinases in follicular fluid of porcine ovaries. M.A.U. Watsala (Veterinary student) (2009).

6.1.3.5. Knowledge, attitude and practice towards smoking and alcohol consumption among males with age group 17-21. Medical undergraduates-Group 17 2005/ 06 Batch.

6.1.3.6. Knowledge of contraceptives among undergraduates. Medical undergraduates-Group 13 2005/ 06 Batch.

6.1.3.7. A hospital-based study to determine the association between febrile convulsions and low birth weight among 6 months to 6 years age group and to assess the knowledge, attitudes, and practices of parents of children with febrile convulsions. Medical undergraduates-Group 10 2004/05 Batch.

6.2. Research grants taken and completed as the principal investigator

6.2.1. Assessment of heat stability of glycation induced cross-linking inhibition of three medicinal plants and their effects on cell viability (Rs. 385,745/-). University Research Grant No. URG/2018/32/M, 2018 to 2020.

6.2.2. Detection of skin whitening effects of medicinal plants (Rs. 562,500/-). University Research Grant No. RG/2016/41/M.

6.2.3. Identification and isolation of potential antidiabetic compounds from Sri Lankan medicinal plants. (Rs. 1,580,000/-). Co investigators- Prof. U.L.B. Jayasinghe and Prof. R. Sivakanesan. National Science Foundation. Grant No. RG/2012/BS/01 2012 to 2015.

6.2.4. Detection of *in vitro* early and late protein glycation inhibitory potential of Sri Lankan medicinal plants. (Rs. 600,000/-). University Research Grant No. RG/AF 2013/33/M.

6.2.5. Development of an assay to detect protein glycation inhibitory potential of medicinal plants (Rs. 185,097/). University Research Grant No. RG/2012/CG-1/38/M, 2012 to 2013.

6.2.6. Preliminary studies on detection of protein glycation inhibitory potential of medicinal plants. (Rs. 74,090/-). University Research Grant No. RG/2011/27/M, 2011 to 2013.

6.2.7. Studies on the variation of acid proteinase activity during the porcine ovarian cycle. (Rs. 80,000/-). Co-investigators- S.B.P. Athauda and T. Takahashi. University Research Grant No. RG/2009/43/M, 2010 to 2011.

6.2.8. Studies on the effect of novel aspartic proteinases in modulating the IGFBP concentration (Rs. 63,308/-) University Research grants Grant No. RG/2008/42/M, 2008 to 2009. Co-investigators- S.B.P. Athauda and T. Takahashi.

6.2.9. Isolation, purification, and characterization of acid proteinases from porcine ovaries. (Rs. 100,000/-) University Research grants Grant No. RG/99/62/PG/M, 1999 to 2000. Co-investigators- S.B.P. Athauda and T. Takahashi.

6.3. Awards

6.3.1. **Commonwealth Scholarships UK award** from 2000-2003.

6.3.2. **Commonwealth Fellowships UK award** from 01st October 2012 to 31st December 2012.

6.3.3. **NRC Merit award for Scientific Publication-2015.** BMC Complementary and Alternative Medicine. 2015, Vol 15, Art No. 175.

6.3.4. **NRC Merit award for Scientific Publication-2016.** BMC Complementary and Alternative Medicine. 2016, Vol 16, Art No. 2.

6.3.5. Research Publication Award- 2015. Faculty of Medicine, University of Peradeniya.

6.3.6. Research Publication Award- 2016. Faculty of Medicine, University of Peradeniya.

6.3.7. Research Publication Award- 2017. Faculty of Medicine, University of Peradeniya.

6.3.8. Research Publication Award- 2018. Faculty of Medicine, University of Peradeniya.

6.3.9. Research Publication Award- 2019. Faculty of Medicine, University of Peradeniya.

6.3.10. Commendable paper award Proceedings of 32nd academic Annual sessions of Kandy society of Medicine- 2010. Corresponding author- H.K.I. Perera.

6.3.11. Best presentation award. Annual Research Sessions 1994, Faculty of Medicine, University of Peradeniya. Presenting author- H.K.I. Perera.

6.4. Publications

6.4.1. Book chapters authored

6.4.1.1. Biochemistry Made Easy. Publisher- S. Godage & Brothers (Pvt) Ltd. R. Sivakanesan (Editor) (2016). ISBN 978-955-30-6736-4. **Six chapters**

6.4.1.1.1. H.K.I. Perera, Chapter 6: Introduction to nucleic acids

6.4.1.1.2. H.K.I. Perera, Chapter 7: Cell cycle

6.4.1.1.3. H.K.I. Perera, Chapter 11: Energy for the cell- Glycolysis

6.4.1.1.4. H.K.I. Perera, Chapter 12: Energy for the cell-Citric acid cycle

6.4.1.1.5. H.K.I. Perera, Chapter 16: Pentose phosphate pathway

6.4.1.1.6. H.K.I. Perera, Chapter 17: Free radicals and antioxidants

6.4.1.2. H.K.I. Perera, Detection of aspartic proteinase activities using gel zymography. Zymography: Methods and Protocols. Springer protocols. Publisher- Springer (2017).

6.4.1.3. Bindu R. Nair, **Kumudu Perera** and L. S. Sreeshma. Modern ethnobotany and the development of drug leads- Bioactive molecules with antidiabetic potential. 505-529. Publisher- Springer (2023).

6.4.1.4. H.K.I. Perera, Analysis of Protein Glycation Inhibition using PAGE. Zymography: Methods and Protocols. Springer protocols. Publisher- Springer. 2025:2917:227-237. doi: 10.1007/978-1-0716-4478-2_19.

6.4.1.5. H.K.I. Perera, Analysis of Glycation-Induced Protein Cross-linking Inhibition using SDS-PAGE. Zymography: Methods and Protocols. Springer protocols. Publisher-Springer. 2025:2917:239-246. doi: 10.1007/978-1-0716-4478-2_20.

6.4.2. Full papers published in peer reviewed journals

6.4.2.1. H.K.I. Perera, M. Clarke, N.J. Morris, W. Hong, L.H. Chamberlain, and G.W. Gould (2003). Syntaxin 6 regulates GLUT4 trafficking in 3T3-L1 adipocytes. *Molecular Biology of the Cell*. 14: 2946-2958. Indexed in Science Citation Index Master list.

6.4.2.2. D.B.G.M. Ekanayake, **H.K.I. Perera**, A.N.B. Ellepola and S.B.P. Athauda (2013). Analysis of blood parameters & RT-PCR results in dengue suspected patients from Sri Lanka. *International Journal of Research in Medical and Health Sciences*. 3(1): 21-27.

6.4.2.3. D.C.R. Wijetunge and **H.K.I. Perera** (2014). A novel *in vitro* method to identify protein glycation inhibitors. *Asian Journal of Medical Science*. 5(3): 15-21.

6.4.2.4. H.K.I. Perera, B.W.N.S.K. Abeywardana and S.B.P. Athauda (2014). Analysis of aspartic proteinase activity in porcine ovaries. *International Journal of Research in Medical and Health Sciences*. 3(7): 11-19.

6.4.2.5. H.K.I. Perera and H.A.S.K. Ranasinghe (2015). A simple method to detect plant-based inhibitors of glycation induced protein cross-linking. *Asian Journal of Medical Science.* 6(1): 28-33.

6.4.2.6. H.K.I. Perera and C.S. Handuwalage (2015). Detection of protein glycation inhibitory potential of nine antidiabetic plants using a novel method. *Asian Journal of Medical Science.* 6(2): 1-6.

6.4.2.7. H.K.I. Perera and D.C.R. Wijetunge (2015). Strong protein glycation inhibitory potential of Clove and Coriander. *British Journal of Pharmaceutical Research*. 6 (5): 306-312.

6.4.2.8. H.K.I. Perera, P.H.P. Fernando and S.B.P. Athauda (2015). Zymographic detection of aspartic proteinase activities in porcine ovarian extracts. International *Journal of Biochemistry Research & Review.* 7(4): 166-174.

6.4.2.9. **H.K.I. Perera** and C.S. Handuwalage (2015). Analysis of glycation induced protein cross-linking inhibitory effects of some antidiabetic plants and spices. *BMC Complementary and Alternative Medicine.* 15: 175. 9 pages. Indexed in Science Citation Index Expanded.

6.4.2.10. J. Poongunran, **H.K.I. Perera**, W. I. T. Fernando, L. Jayasinghe and R. Sivakanesan (2015). α-Glucosidase and α-amylase inhibitory activities of nine Sri Lankan antidiabetic plants. *British Journal of Pharmaceutical Research*. 7 (5): 365-374.

6.4.2.11. **H.K.I. Perera** and W.K.V.K. Premadasa (2016). Heat stable inhibitors of protein cross-linking from Sri Lankan medicinal plants. *British Journal of Pharmaceutical Research*. 9(3): 1-11.

6.4.2.12. **H.K.I. Perera**, W.K.V.K. Premadasa and J. Poongunran (2016). α-glucosidase and glycation inhibitory effects of *Costus speciosus* leaves. *BMC Complementary and Alternative Medicine*. 16:2. Indexed in Science Citation Index Expanded.

6.4.2.13. **H.K.I. Perera** (2016). Antidiabetic effects of *Pterocarpus marsupium* (*Gammalu*). *European Journal of Medicinal Plants*. 13(4): 1-14.

6.4.2.14. **H.K.I. Perera**, B.D.S. Jayawardana and S. Rajapakse (2016). Heat stable protease inhibitors from *Sesbania grandiflora* and *Terminalia catappa*. *British Journal of Pharmaceutical Research*. 11(4): 1-9.

6.4.2.15. **H.K.I. Perera** (2016). PAGE - a simple method to detect the protective effects of medicinal plants against sugar induced protein damage. *Journal of National Science Foundation Sri Lanka*. 44 (1): 105-107. Indexed in Science Citation Index Expanded.

6.4.2.16. **H.K.I. Perera** (2016). *Phyllanthus debilis*: A poorly investigated plant with antidiabetic effects. *International Journal of Pharma Sciences and Research*. 7(6): 261-265.

6.4.2.17. J. Poongunran, **H.K.I. Perera**, L. Jayasinghe, W.I.T. Fernando, R. Sivakanesan, Hiroshi Araya and Y. Fujimoto (2017). Bioassay-guided fractionation and identification of α-amylase inhibitors from the leaves of *Syzygium cumini*. *Pharmaceutical Biology.* 55(1): 206-211. Indexed in Science Citation Index expanded.

6.4.2.18. **H.K.I. Perera**, W.K.V.K. Premadasa, W.I.T. Fernando and J.A.V.P. Jayasinghe (2017). Assessment of antiglycation effects of some plants used in hypolipidaemic formulations or as spices. *Journal of Pharmaceutical Research International*. 17(3): 1-8.

6.4.2.19. H.K.I. Perera, Pradeep APC, Devinda KDU, Ratnayake RMUK and Gunawardhana DKLR (2017). Tyrosinase inhibitory effects of *Saraca asoca* bark, leaf and seed. *Journal of Complementary Medicine and Alterantive Healthcare* 4(3): 1-3.

6.4.2.20. H.K.I. Perera, Pradeep APC, Devinda KDU, Ratnayake RMUK, Gunawardhana DKLR and J.A.V.P. Jayasinghe (2018). Antityrosinase activities of *Thespesia populnea* bark and *Phyllanthus emblica* fruit. *Journal of Advances in Medical and Pharmaceutical Sciences*. 16(3): 1-8.

6.4.2.21. H.K.I. Perera, J. Poongunran, W.K.V.K. Premadasa, and J.A.V.P. Jayasinghe (2018). *In vitro* antiglycation and hypoglycaemic effects of *Syzygium cumini* leaf extracts. *Journal of National Science Foundation Sri Lanka*. 46 (3): 281-291. Indexed in Science citation index expanded.

6.4.2.22. Irushika. T. Fernando, **Kumudu I. Perera**, Senarath B. P. Athauda, Ramiah Sivakanesan, Nimal Savitri Kumar and Lalith Jayasinghe (2019). Heat stability of the *in vitro* inhibitory effect of spices on lipase, amylase, and glucosidase enzymes. *Food Science & Nutrition*. 7: 425-432. Indexed in Science citation index expanded.

6.4.2.23. W.I.T. Fernando, A.M.K.C. Attanayake, **H.K.I. Perera**, R. Sivakanesan, L. Jayasinghe, H. Araya, and Y. Fujimoto 2019. Isolation, identification, and characterization of pancreatic lipase inhibitors from *Trigonella foenum-graecum* seeds. *South African journal of botany.* 121: 418-421. Indexed in Science citation index.

6.4.2.24. P.H.M.G.C. Priyadarshana, J.A.V.R. Jayasinghe, **H.K.I. Perera**, A.H.G.S. Udari (2019). Development of a herbal tea with potential antiglycation effects using *Phyllanthus emblica* (Indian Gooseberry), *Zingiber officinale* (Ginger), and *Coriander sativum* (Coriander). *Sri Lanka Journal of Agriculture and Ecosystems.* 4(1): 125-136.

6.4.2.25. H.K.I. Perera, J.A.V.R. Jayasinghe, A.P.C.P. Lankarathna, K.G. Nilmanel & R. Sivakanesan (2024). Protective effects of *Terminalia arjuna* bark extracts against glycation induced protein damage, oxidative stress, and hyperpigmentation. *Ceylon Journal of Science* 53 (3): 389-397.

6.4.3. Monographs

6.4.3.1. S.W. Gunasekera, R. Sivakanesan and **H.K.I. Perera** (1992). Bibliography of Research, Faculty of Medicine, Peradeniya.

6.4.4. Papers published in proceedings of National / International Conferences

6.4.4.1. **H.K.I. Perera**, S.B.P. Athauda and T. Takahashi (2009). Effect of ovarian aspartic proteinases in modulating IGFBP-3. *Proceedings of Peradeniya University Research Sessions*, 14-1: 111-113.

6.4.4.2. **H.K.I. Perera**, B.W.N.S.K. Abeywardana and S.B.P. Athauda (2009). Comparison of acid proteinases in porcine ovaries collected before and after attaining estrous cycling. Proceedings of Peradeniya University Research Sessions. 14-1: 157-159.

6.4.4.3. **H.K.I. Perera**, S.B.P. Athauda and T. Takahashi (2010). The variation of acid proteinase activity at different stages of the follicular and luteal phases of the porcine ovarian cycle. *Proceedings of Annual sessions of Peradeniya University Research Sessions*. 15-1: 380-382.

6.4.4.4. W.I.T. Fernando, **H.K.I. Perera**, S.B.P. Athauda, N.S. Kumar, U.L.B. Jayasinghe and R Sivakanesan (2010). *In-vitro* screening of spices for lipase inhibitory activity and antioxidant activity. *Proceedings of Annual sessions of Peradeniya University Research Sessions*. 15-1: 383-385.

6.4.4.5. A. Manamperi, **H.K.I. Perera**, H. Inoue and S.B.P. Athauda (2010). Screening of some medicinal plant extracts for antiparasitic activity using *Caenorhabditis elegans*. *Proceedings of Annual sessions of Peradeniya University Research Sessions*. 15-1: 386-388.

6.4.4.6. U.V.R. Senaratne, **H.K.I. Perera**, A. Manamperi and S.B.P. Athauda (2012). Potential anthelmintic compounds from *Solanum indicum* fruit. *Proceedings of International Conference on chemical Sciences*. p26-29.

6.4.4.7. **H.K.I. Perera**, W. K. V. K. Premadasa and W.I.T. Fernando (2014). A strong glycation induced protein cross-linking inhibitory potential of *Cyperus rotundus and Picrorhiza kurroa. Proceedings of the fourth international seminar on sustainable utilization of tropical biomass- ayur informatics*. p69-74.

6.4.5. Abstracts published in proceedings of National/ International Conferences

6.4.5.1. **H.K.I. Perera,** S.W. Gunasekera, W.H.M. Pushpa Kumari, and P.A.J. Perera (1992). Inborn errors of amino acid metabolism: A separation method and results. *Proceedings International medical congress, Kandy, Sri Lanka*. p28.

6.4.5.2. **H.K.I. Perera,** S.W. Gunasekera, P.C.A. Ratnatunga and R.O. Thattil (1994). Surgical nutrition: Anthropometric values reflecting the nutritional status of patients suffering from carcinoma of oesophagus and stomach. *Proceedings of Annual sessions of Kandy society of Medicine*. p34-35.

6.4.5.3. **H.K.I. Perera,** S.W. Gunasekera, A.S.B. Wijekoon and N.A.N.D. Perera (1994). Investigations of aminoacidopathies. A report. *Proceedings of Annual sessions of Kandy society of Medicine*. p35-36.

6.4.5.4. S.W. Gunasekera, **H.K.I. Perera,** P.C.A. Ratnatunga and R.O. Thattil (1994). Anthropometric and biochemical data reflecting the nutritional status of patients with carcinoma of the upper gastrointestinal tract. *Proceedings of Annual research sessions, Faculty of Medicine, University of Peradeniya*. p12-13.

6.4.5.5. **H.K.I. Perera,** S.B.P., Athauda, and T. Takahashi (1998). Isolation and partial characterization of acid proteinases from porcine ovaries. *Proceedings of Annual sessions of Sri Lanka Association for the Advancement of Science*. p26.

6.4.5.6. **H.K.I. Perera,** S.B.P. Athauda, and T. Takahashi (1998). Partial purification and characterization of acid proteinases from porcine ovaries. *Proceedings of Annual sessions of Sri Lanka Association for the Advancement of Science*. p21.

6.4.5.7. **H.K.I. Perera,** S.B.P. Athauda, P.H.P., Fernando, I.V.P. Dharmawardana, and T., Takahashi (1999). Characterization of two acid proteinases from porcine ovarian follicular fluid. *Proceedings of* 28th *Annual sessions of Chemistry in Sri Lanka*. 16(1): 42.

6.4.5.8. **H.K.I. Perera,** S.B.P. Athauda, and P.H.P. Fernando (1999). Isolation and purification of two acid proteinases from porcine ovarian tissues. *Proceedings of Peradeniya University Research Sessions.* p50.

6.4.5.9. **H.K.I. Perera**, S.B.P. Athauda, P.H.P. Fernando and T. Takahashi (1999). Purification of two acid proteinases from porcine ovarian follicular fluid and their enzymatic properties. *Proceedings of Annual sessions of the Sri Lanka Association for the Advancement of Science.* p27.

6.4.5.10. S.Martin, **H.K.I. Perera**, V.H. Maier, A. Prior, A.M. Shewan, G.W. Gould and D.E. James (2001). The emergence of an insulin-responsive glucose transport system during adipocyte differentiation correlates with the segregation of GLUT4 from recycling endosomes. In: *Molecular Biology of the Cell*.12:484A-484A.

6.4.5.11. **H.K.I. Perera** and Gould G.W. (2003). Use of adenoviral vectors to deliver syntaxin DNA into 3T3-L1 adipocytes. *Proceedings of Peradeniya University Research Sessions.* p126.

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6.4.5.58. S.M.K.T. Samarakoon, J.A.V.R. Jayasinghe, **H.K.I. Perera**, A.H.G.S. Udari. (2021). In vitro antiglycation effects of an instant soup mix powder containing *Spirulina* and *Gracilaria edulis*. Proceedings of the Research Conference in Health Sciences 2021 – Faculty of Allied Health Sciences. University of Sri Jayewardenepura. p54.

6.4.5.59. J.A.V.R. Jayasinghe, K.J.K. Karunarathilake, R.P.V.J. Rajapakse and **H.K.I. Perera** (2021). Effects of *Mimosa pudica* on glycation induced protein cross-linking and cell viability. Proceedings of Peradeniya University International Research Sessions 2021, Sri Lanka, 23:294.

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6.4.5.61. N.H.M.V.N. Senevirathne, **H.K.I. Perera**, B.E.P. Mendis, R.P.N.P. Rajapakse, T.M.K.B.B. Weerapperuma (2023). Antiglycation properties of aqueous extracts from

selected plant species: An *invitro* study. Proceedings of the International Research Conference in Health Sciences 2023 - FAHS, USJ. p61.

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6.4.5.63. H.K.I. Perera (2024). Detection of inhibitory potential of antidiabetic plants to prevent glycation induced chronic complications. Proceedings of International Seminar on New Horizons in Plant Science, Department of Botany, University of Kerala, India. p.5.

6.4.6. Research news articles

6.4.6.1. H.K.I. Perera (2015). Medicinal plants as protein cross-linking inhibitors to reduce complications of diabetes. Hantana vision, Research magazine of the University of Peradeniya. 1(2): 18.

6.4.6.2. H.K.I. Perera (2015). SDS-PAGE-A simple method to identify medicinal plants which can delay diabetic complications. Sri Lankan Scientist Magazine 1(2): 5-6.

6.4.6.3. H.K.I. Perera (2016). The truth behind *Thebu* leaves in a diabetic diet. Hantana vision, Research magazine of the University of Peradeniya. 2(2): 16.

6.4.6.4. H.K.I. Perera (2016). *Gammalu* latex: A poorly investigated remedy used for diabetes. Sri Lankan Scientist Magazine. 2(1): 6

6.5. Research development of academics and postgraduate students

Faculty Level

6.5.1. **Secretary** of Faculty Higher Degrees Committee- 2018

6.5.2. **Member** of Faculty Research committee- 2010 to 2020

6.5.3. **Secretary** of the Faculty Research Committee- 2010 to 2013

6.5.4. **Organizing committee member**- Faculty research workshops

6.5.5. **Reviewer** of research grant proposals, final reports, abstracts

Peradeniya University Research Sessions

6.5.6. **Member** of Registration Committee- 2007, 2008

6.5.7. **Member** of Editorial committee- 2009, 2010

6.5.8. **Member** of Organizing Committee- 2011, 2012

6.5.9. Reviewer- University Research Sessions - 2009 to 2012

Peradeniya University International Research Sessions (iPURSE)

6.5.10. Faculty Chairperson- iPURSE Editorial committee- 2021

6.5.11. Member of iPURSE Organizing Committee- 2014

6.5.12. Member of Editorial committee of iPURSE- 2016, 2021

6.5.13. Member of Technical Program committee of iPURSE- 2017

6.5.14. Member of Logistics committee of iPURSE- 2019

6.5.15. Reviewer- abstracts- 2014 to date- iPURSE

6.5.16. Chairperson/ discussant- iPURSE- 2014, 2021, 2025

Postgraduate Institute of Science Research congress

6.5.17. Reviewer- abstracts- 2015 to date

6.6. Contributions as an editorial board member/ reviewer for international peer reviewed journals, national journals, and indexed journals

6.6.1. Asian Journal of Medical Sciences- since 2011

6.6.2. Critical Reviews in Food Science and Nutrition- since 2015

6.6.3. Journal of Intercultural Ethnopharmacology- since 2015

6.6.4. Pharmaceutical Biology- since 2015

6.6.5. International Journal of Surgery and Medicine- since 2015

6.6.6. Ceylon Journal of Science- since 2019

6.6.7. Sri Lanka Dental Journal- since 2015

6.6.8. Vavuniya Journal of Science, University of Vavuniya- 2023

7. Contributions to student welfare

7.1. Senior Student Counselor- 2006, 2008, 2010

7.2. Academic counselor/ Student mentor- Faculty of Medicine- 2005 to date

7.3. Member of Faculty Student Affairs committee

7.4. Member of Scholarship committee

8. Other contributions

8.1. Chairperson of Faculty Library committee, from 2020 to 2021

8.2. Member of Faculty Library committee 2010 to 2021

8.3. Member Exhibition of Art and Books Committee- Golden Jubilee Celebrations- Faculty of Medicine 2012

8.4. Member of the executive organizing committee-Medical Exhibition Committee- 2015

8.5. Chairperson of the Food committee**-** Medical Exhibition Committee- 2015

8.6. Chairperson of the Theme on Nutrition **-** Medical Exhibition- 2003

8.7. Judge- Undergraduate research symposium, Faculty of Veterinary Medicine, and Animal Science, 2020 and 2022.

8.8. Contributions in Peradeniya Faculty of Medicine Teachers Association (PFMTA)

8.8.1. Treasurer PFMTA- 2013/14

8.8.2. Treasurer PFMTA- 2014/15

8.8.3. Assistant Secretary PFMTA 2012/2013

8.8.4. Vice President PFMTA 2011/2012

8.9. Contributions to the University

8.9.1. Representative for Dean - Senate Library Committee-2010-2012

8.9.2. Contributed for Peradeniya University Convocation

8.9.3. Member of Organizing committee- Convocation 2016

8.9.4. Member of Organizing committee- Convocation 2015

8.9.5. Member of Logistic committee- Convocation 2015

8.9.6. Member of Food committee- Convocation 2014

8.9.7. Chairperson/ member of inquiry boards- (since 2018)

8.9.8. Senate nominee/ UGC nominee- for selection committees- Promotions to the grades of Associate Professor/ Professor (since 2018)

9. Contribution as a resource person in Workshops and Short Courses

9.1. Invited Speaker- International Seminar on New Horizons in Plant Science, May 28th to 29th, 2024, University of Kerala, India

9.2. Resource person- Workshop on Applications of “Cell culture” and “MIQE” compliance Real-Time PCR (qPCR) Assay. 14th to 20th January 2022. Organized by Sri Lanka Association for Laboratory Animal Science and Department of Biochemistry, Faculty of Medicine, University of Peradeniya.

9.3. Guest Speaker- International conference on sustainable utilization of bioresources from 10th to 15th January 2022. University of Kerala, India

9.4. Resource person- Research Symposium- Promoting Research in the System of Traditional Medicine 25th June 2019. Organized by the provincial Department of Ayurveda, Central province and postgraduate institute of Science, University of Peradeniya.

9.5. Resource person- Workshop in application of cell culture organized by the Sri Lanka Association for Laboratory Animal Science in collaboration with Department of Biochemistry, Faculty of Medicine, University of Peradeniya from 14th to 19th January 2019

9.6. Delivered a theme lecture in Provectus Plantae 19, International conference on exploring the scope of plant genetic resources 22nd to 24th 2019, University of Kerala, India

9.7. Resource person and examiner Diploma in Exercise and Sports Science, Faculty of Medicine 2021/22, 2019/20 and 2017/18

9.8. Resource person- Revision of Biochemistry curriculum for the Curriculum Revision Workshop 2016

9.9. Resource person- Preparative Course for selection examination in MD (Oral surgery/ Orthodontics/ Restorative Dentistry-2015

9.10. Resource person- Biochemistry Practical workshop 2015

9.11. Resource person- Course in Basic Sciences for MD Part I in Gynaecology and Obstetrics 2014

9.12. Resource person- Preparative Course for selection examination in MD (Oral surgery/ Orthodontics/ Restorative Dentistry- 2014)

9.13. Resource person- Course in Basic Sciences for MD Part I in Gynaecology and Obstetrics 2013

9.14. Resource person- Course in Basic Sciences for MD Part I in Gynaecology and Obstetrics 2012

9.15. Resource person- Course in Basic Sciences for MD Part I in Gynaecology and Obstetrics 2011

9.16. Resource person- Certificate Course in Advance Biochemistry 2005

9.17. Resource person- Medical Laboratory Technology course at the School of Medical Laboratory Technology at Teaching Hospital Peradeniya

10. National level contributions

10.1. **UGC nominee-** for selection committees- Promotions to the grades of Associate Professor/ Professor (since 2018)

10.2. **Coordinator**- M.Sc. in Clinical Biochemistry PGIS from 2010 to 2017 and 2019 to 2022

10.3. **Coordinator**- M.Sc. in Exercise and Sports Science, Faculty of Medicine, from 2015 to 2018

10.4. **Member** of the Board of study Biochemistry & Molecular Biology from 2017 to 2023

10.5. **Member** of the Board of Study in Health Sciences, Postgraduate Institute of Medical Sciences from 2023 to date

10.6. **Reviewer-** Research grant proposals- National Science Foundation

10.7. **Reviewer-** Symposium of Young Scientists' Conference on Multidisciplinary Research (YSCMR). National Institute of Fundamental Studies, 2021 to date

10.8. **Reviewer/ Judge-** Young Scientists Forum organized by the National Science and technology Commission (NASTEC)

10.9. **Judge-** Evaluation of technical sessions of Annual Congress, Postgraduate institute of Agriculture, University of Peradeniya

10.10. **Thesis Examiner**- University of Kerala, India

10.11. **Independent Reviewer** of the Indo-Sri Lanka Joint Research Program – 2024

10.12. **Pool of expertise-**Ministry of Science and Technology- 2025

10.13. **Member** at the stakeholder meeting to discuss the five-year Corporate Plan (2012 to 2017) of the National Science Foundation in 2012 as the representative to the Dean

10.14. **Steering committee member** of Workshop on Disaster management

10.15. **Steering committee member** of Workshop on Road Traffic Accidents

11. Contributions in professional associations

11.1. Life member- Sri Lanka Association for the Advancement of Science

11.2. Life member -Sri Lanka Veterinary Association

11.3. Life member- Kandy Society of Medicine

11.4. Life member- Peradeniya Medical School Alumni Association (PeMSAA)

11.5. Treasurer-PeMSAA- 2014/2015, 2015/2016

Professional References

1. **Prof. Gwyn Gould** (Ph.D. Supervisor)

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