

# CURRICULUM VITAE

Jamburagoda Gamage Shirani Ranasinghe

Senior Professor of Biochemistry

Department of Biochemistry,

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## *Current Position*

Senior Professor in Biochemistry (from 2017 September) Department of Biochemistry, Faculty of Medicine, University of Peradeniya, Sri Lanka

Professor of Biochemistry/ Chair (from 2016 May) Department of Biochemistry, Faculty of Medicine, University of Peradeniya, Sri Lanka

Professor in Biochemistry (from 2009 March) Department of Biochemistry, Faculty of Medicine, University of Peradeniya, Sri Lanka

## *Academic Positions held*

Head of the Department of Biochemistry, Faculty of Medicine, University of Peradeniya from 2013-2016

Chairperson to the Board of Study in Biochemistry and Molecular Biology, Postgraduate Institute of Science from year 2014 to 2017

Secretary to the Board of Study in Biochemistry and Molecular Biology, Postgraduate Institute of Science from year 2002 to 2008

Secretary/Higher Degree committee Faculty of Medicine, University of Peradeniya 2016

Coordinator of the MSc programme in Experimental Biotechnology in Biochemistry and Molecular Biology, Postgraduate Institute of Science from 2005. upto date

Member of the Board of Study Biomedical Science, Post Graduate Institute of Science, University of Peradeniya Sri Lanka from 2019. upto date.

Member of the Board of Study Zoological Science, Post Graduate Institute of Science, University of

Peradeniya Sri Lanka from 2019. upto date.

Member to the Board of Management Postgraduate Institute of Science from year 2014 to 2017

Member of the Board of Study Biochemistry & Molecular Biology, Post Graduate Institute of Science, University of Peradeniya Sri Lanka from 2002. upto date.

### *Educational Qualifications:*

BVSc (2<sup>nd</sup> class Hon upper) Faculty of Veterinary Medicine & Animal Science, University of Peradeniya, Sri Lanka (1988)

M.Phil. University of Miyazaki, Japan (1996-1998)

Ph.D University of Kagoshima, Japan (1998-2001)

### *Research Interests*

#### *Toxicology related to metals*

*Effects of mineral at cellular level and its significance on the pathogenesis of diseases*

Vitamin D status of our Sri Lankan Population

Analysis of Gall stones and Renal stones with respect to dietary pattern

Effects of probiotics, fermented milk products on serum parameters

Criteria for selection of ideal probiotics

### *Academic Career Objectives*

Highly experienced academic member and I am looking for an opportunity to upgrade my all capabilities in the field of ~~Nutritional~~ Biochemistry with research based further service where I can apply my previous research experience, innovativeness, creativeness and produce high calibre individuals in this field of Biochemistry.

### *Teaching Experience*

Medical Undergraduate Preclinical teaching, University of Peradeniya Sri Lanka

Visiting lecturer in the General Sir John Kotelawala Defence University

### *Postgraduate Teaching*

MSc Clinical Biochemistry, Msc in Experimental Biotechnology Postgraduate Institute of Science, Sri Lanka.

*Research Publications:*

Perera Thanusha, **Ranasinghe Shirani**, Alles Neil, Daniel Christoph and Waduge Roshitha(2021). A preliminary analysis of renal infiltrating cells in acute tubular injury induced by water treated with high fluoride and high hardness in rat model. Research Journal of Biotechnology. Vol. 16 (3) March.  
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Buddh Fernando, Thilini S H Sudeshika Thilini W Hettiarachchi, Zeid Badurdeen" , "Thilak DJ Abeysekara" , "Hemalika T K Abeysundara" "Sakunthala Jayasinghe, **Shirani Ranasinghe**, Nishantha Nanayakkara (2020) Evaluation of biochemical profile of Chronic Kidney Disease of uncertain etiology in Sri Lanka <https://doi.org/10.1371/journal.pone.0238279>

Thanusha Perera, **Shirani Ranasinghe**, Neil Alles and Roshitha Waduge (2020 March). Experimental rat model for acute tubular 3 injury induced by high water hardness and high water fluoride: efficacy of primary 5 preventive intervention by distilled water 6 administration BMC Nephrology.

Thanusha Perera , Kasun Godakumara , **Shirani Ranasinghe** and Neil Alles (2020). Exposure to Fluoride significantly decreases the cell membrane integrity and mitochondrial activity in murine cells. International Journal of Advanced Research. 8(01), 735-743.

Buddhi Nadeesha Tharangani Warnakulasuriya Fernando [Thilini Wasana Hettiarachchi](#) ,[Thilini Sudeshika](#) ,Zeid Badurdeen Hemalika Abeysundara [Shirani Ranasinghe](#) ,[Manel P Rathnayake](#), Nishantha Nanayakkara.(2018) anaemia in Chronic Kidney Disease of uncertain aetiology.Nephrology First published: 07 December 2018<https://doi.org/10.1111/nep.13545>

**Shirani Ranasinghe**, [Thilak Jayalath](#), [Sampath Thennakoon](#), Ranjith Jayasekara, Ran Shiva, [Tharanga Bandara](#), (2019) "Variation of circulating 25-Hydroxyvitamin D levels with life style in a cohort group in Sri Lanka", Nutrition & Food Science, <https://doi.org/10.1108/NFS-06-2018-0168> (Cited by 11)

**Shirani Ranasinghe** (2019) Impact of mineral homeostasis on the pathogenesis of some common diseases in Sri Lanka. Sri Lanka Medical Journal 2019 December 28 (2):57-67

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Atthanayaka Mudiyanse Dilhara Sewwandi Karunaratna, **JG Shirani Ranasinghe**, Rasnayaka Mudiyanse (2017) Iron overload in beta thalassemia major patients Int J Blood Transfus Immuno hematol 2017;7:33–40. doi:10.5348/ijbti-2017-32- OA-5 (Cited by 12)

**J G S Ranasinghe**, W T R Perera (2016), Prevalence of Lactobacillus bulgaricus and Streptococcus thermophilus stability in commercially available yogurts in Sri Lanka. Asian Journal of Medical Sciences | Sep-Oct 2016 | Vol 7 | Issue 5 [Vol 7, No 5 \(2016\)](#) 97-101.

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Thanusha Perera, **Shirani Ranasinghe**, Neil Alles, Roshitha Waduge (2018) Effect of fluoride on major organs with the different time of exposure in rats. Environmental Health and Preventive Medicine. 23:17 DOI: 10.1186/s12199-018-0707-2.(Cited by 11)

Rathnayaka Mudiyanse M.K. Namal Rathnayaka, Senanayake A.M. Kularatne, Anusha Nishanthi Ranathunga, Mahinda Kumarasinghe, MBBS, MD; Jayantha Rajapakse **Shirani Ranasinghe** (2017). Prolonged Coagulopathy, Ecchymoses, and Microangiopathic Hemolytic Anemia Following Hump-Nosed Pit Viper (Hypnale hypnale) Bite in Sri Lanka Wilderness & Environmental Medicine, 28, 253–258

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RWKNPABDA SSHMML Senanayake, **J G S Ranasinghe** (2015), Changes in the Serum Enzyme

Levels and Liver Lesions of Broiler Birds Reared Under Different Management Conditions. Tropical Agricultural Research 26(4) 584-595. (Cited 13)

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(2016). Study on impact of anatomical location of human renal stones on mechanism of nucleation and growth in Sri Lankan population. International Journal of Current Research Vol. 8, Issue, 01, pp.25563-25568,

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B., Kularatne, S. A. M & **Ranasinghe, J. G. S. (2015)**. Phylogeography of the Indian Cobra (*Naja naja*) reveals genetically divergent populations between the Indian subcontinent and Sri Lanka. Genome, 58 (5), 212.

Sumanadasa PDNS, Pethiyagoda AUB, **Ranasinghe JGS**, Pitawala HMGTA. (2015). Influence of Organic Matter and Preexisting Cavitations of Urinary Stones on the Success Rate of Extracorporeal Shock Wave Lithotripsy. International Journal of Analytical, Pharmaceutical and Biomedical Sciences. July-2015, Volume-4, Issue-7, 28-39

Harshi Weerakoon, Ayanthi Navaratne, **Shirani Ranasinghe**, Ramaiah Sivakanesan Kuda Banda Galketiya, Shanthini Rosairo (2015) Chemical characterization of gallstones: an approach to explore the aetiopathogenesis of gallstone disease in Sri Lanka. PLOS ONE 2015;10(4):e0121537.

<https://doi.org/10.1371/journal.pone.0121537> (cited by 30)

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**Ranasinghe, JGS**, Silva SSP, Herath, N. Changes of Serum Lipids and Proteins during Probiotics Feeding and Its Exposure. International Journal of Scientific and Research Publications, . (2013) Volume 3, Issue 1, January 1 page 1-5 ISSN 2250-3153

Niroshini KHKT1, Rajapakse RPVJ, **Ranasinghe JGS**. (2013) Detection of Antigenic proteins

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**Ranasinghe JGS**, Liu MC, Sakakibara Y, Suiko M (2000). Manganese administration induces the increased production of dopamine sulfate and depletion of dopamine in Sprague-Dawley rats. *Journal Biochem.*128: 477-480.

**Ranasinghe JGS**, Sakakibara Y, Harada M, Nishiyama K, Liu MC & Suiko M (1999). Structural identification of sulfated tyrosine in human urine. *Bioscience Biotechnology Biochemistry* 63:1, 229-231.

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**Ranasinghe JGS**, Ranasinghe H & Sivakanesan R (1994). Rubber (*Hevia Braciliancis* ) latex as a cause of indigestion in cattle. *Sri Lanka Veterinary Journal* 41:1, 1-4.

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Sumanadasa PDNS, Pethiyagoda AUB, **Ranasinghe JGS** ,Pitawala HMGTA.(2016) .Influence of Preexisting Cavitations in primary tract stones on success rate of extracorporeal shock wave lithotripsy. . *International Annual Research Sessions, University of Peradeniya* p.157.

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A.U Tennakoon, **J.G.S. Ranasinghe**, R. Jinadasa. (2015). Identification of Lactic acid bacteria present in house hold curd samples. Proceedings of the postgraduate Institute of Science Research Congress, 9th -10th October. p 71.

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**Ranasinghe JGS**, Asano Shoji<sup>1</sup>, Hayashi Ikuhiro, Suzuki Mieko<sup>1</sup>, Athauda SBP & Moriyama Akihiko (2005). Analysis of venom components in the Indian cobra living in Sri Lanka - Comparison with those of the same species in India. Proceedings of the 53<sup>rd</sup> symposium on Toxins 7<sup>th</sup> July Yatsugatake Royal Hotel, Japan

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WTR Perera, JGS Ranasinghe, R. Waduge, N. Alles (2019). Effects of hard water with high fluoride on kidney and liver and the role of distilled water for damage mitigation. Proceedings of the Postgraduate Institute of Science Research congress. Pp117

WTR Perera, JGS Ranasinghe, R. Waduge, N. Alles (2018). A study of the potential link between ground water hardness with fluoride and chronic kidney disease of unknown etiology (CKDu) in Sri Lanka using rats as an experimental model. International conference on Chronic kidney disease of unknown etiology. Pp11

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WTR Perera, JGS Ranasinghe, R. Waduge, N. Alles (2016). Effect of fluoride treatment on kidney and liver in rats. Proceedings of the Postgraduate Institute of Science Research congress. Pp72.

WTR Perera, JGS Ranasinghe (2016). A preliminary study to investigate fluoride as an etiological factor for renal injury. Proceedings of the Kandy society of medicine. S30P9;52.

*List of students supervised for post graduate degrees*

Hasini Wasundara Mphil at PGIS (Postgraduate Institute of Science) 2019.

K A Dilhara Sewwandi, MPhil at PGIS (Postgraduate Institute of Science) 2017.

Duminda S. B. Dissanayake (Faculty of Vet. Med. Uni. Of Peraadeniya) 2016

Sarath Kuruppu MPhil at PGIS (Postgraduate Institute of Science ) 2016

Harsi Thilanka MPhil at PGIS (Postgraduate Institute of Science ) 2014

Kosala Bandara MPhil at PGIS (Postgraduate Institute of Science ) 2013

Tharanga Niroshini MPhil at PGIS (Postgraduate Institute of Science ) 2013

Deepthi Nanayakkara MPhil at PGIS (Postgraduate Institute of Science ) 2008

HMSN Herath MSc

MSc at PGIS 2009

WADSSN Gregory	MSc at PGIS 2009
Dinesh Chandrasiri	MSc at PGIS 2010
DMS Sugeshwari	MSc at PGIS2010
Hashita Amal Walisinghe	MSc at PGIS2010
T Kumbukage	MSc at PGIS2010
Harshini H Peiris	MSc at PGIS 2011
Harshini H Peiris	MSc at PGIS 2011
K. Bopitiya	MSc PGIS 2011
Nirosha Kumari	MSc PGIS 2012
Viraji Gunaratena	MSc PGIS 2012
Thanusha Perera	MSc PGIS 2014
Sanka Ganegama	MSC PGIS 2015
Jayani S Amarathunga	MSc PGIS 2015
Buddhika Weerasooriya	MSc PGIS 2015
Maleesha Senanayake	MSc PGIS 2015
Shafy Shabnam	MSc PGIS 2016
Nirosha Sandamali	MSc PGIS 2016
MAN Kumara	MSc PGIS 2016
Ayesha Tennakoon	MSc PGIS 2016
Anuradha Seneviratena	MSc PGIS 2017

List of students supervised for post graduate degrees (PhD)

Thanusha Perera	(2020)
Buddhi Fernando	(2020)
TW Hettiarachchi	(2020)
Sumanadasa PDNS	(To be completed 2021)

*Contribution at University Level*

Senior Student Counselor of the University of Peradeniya for the years 2002, 2006, 2009

Deputy Proctor of the Faculty of Medicine in 2007.

Member in subcommittee appointed by the University for Prevention of Ragging in 2007.

Chairperson of the Committee on Illnesses of Clinical Importance and Snakebite and Poisoning. 7<sup>th</sup> Medical Exhibition in 2003

Treasure Medical exhibition 2015

Nominee to represent the Faculty of Medicine in the Organizing Committee of

PURSE (Peradeniya University Research Sessions) in 2008.

Member in Subcommittee on Income Generation Project ,

Member of the Faculty Student Affairs Committee from 2006 to 2015

Member to the Dean's Task Force to provide input in Group2 Clinical Laboratory and Management.

Coordinator for the 10 Module Growth and Development of the Beyond 2004 new curriculum since 2004.

Actively involved in above module revision in 2014

Initiated and Coordinated Biochemistry Practical revision in 2015

Coordinator to Establish diagnostic lab as a service for the clinical programme, Hospitals and income generation

*Resource person in workshops*

Name -Quality Control and Quality Assurance for State and Private Sector Health Laboratories

Place Organized by Post Graduate Institute of Science Peradeniya  
at PGIS

Date- 2003-10-3

Name- Identification of Snakes and Management of Snake Bites

Place Organized by Post Graduate Institute of Science Peradeniya  
at PGIS

Date- 2006-11-11

Name -Fitness over Forty

Place Organized by Department of Physiology, Faculty of  
Medicine, University of Peradeniya.

Date- 2008-4-08

Name -Developing National Guide lines for protection of "Animal  
Participants" in Research.

Place Organized by the Forum of Ethics Review Committees in Sri Lanka, convened by the  
ethics Review Committee Faculty of Medicine, University of Colombo at Faculty of  
Medicine Colombo

Date 2008-09-11

Name- Human Growth and maturation and Clinical application

Place Organized by Post Graduate Institute of Science Peradeniya  
at PGIS

Date 2011-09-2



*Coordinator in workshops*

Name- Identification of Snakes and Management of Snake Bites

Place Organized by Post Graduate Institute of Science Peradeniya  
at PGIS

Date- 2006-11-11

Name – Workshop for Supervisors Research Degree Organized by the Higher Degrees Faculty of  
Medicine, Peradeniya

Place Faculty of Medicine, Peradeniya

*Delivered Orations in Professional Symposia*

Bibile Memorial Oration 2019 Organized by Kandy Society of Medicine.

Invited Speaker /Technical Presentation at

International Symposium Ayurveda Expo 2015

Invited Speaker Personnel experience in human-animal combine research and their benefits  
to general public. At OPA( The organization of professional associations of Sri Lanka) 8 th

April 2011 The International Conference on Clinical Toxicology and Pharmacology 2018

Scheduled on December 3-4 2018 in Dubai, UAE. College of Biochemistry – Invited speake2018

*Awards & Scholarships attained*

Monbusho scholarship (Japanese Government (1996)

Invited research scholar-Nagoya City University Japan 2015

Visiting Professor/Erlangen University, Germany, 2019



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Signature