

# Maduwage Kalana Prasad

MBBS, MPhil, Ph.D. (Newcast. Aus.)

*Professor / University Academic / Biomedical Researcher*

<http://med.pdn.ac.lk/departments/biochemistry/staff/kalana.html>

<https://scholar.google.com/citations?user=lf3F3OsAAAAJ&hl=en>

[https://www.researchgate.net/profile/Kalana\\_Maduwage](https://www.researchgate.net/profile/Kalana_Maduwage)



Google Scholar Citations: Total no of citations: 994, h-index 19 (May 2020)

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**Current affiliation:** Professor in Biochemistry, Faculty of Medicine, University of Peradeniya, Sri Lanka.

## Education

### University of Newcastle (Australia)

Ph.D. Doctor of Philosophy (Clinical Pharmacology) 2012 – 2016

Thesis: Investigation of coagulant effects of venomous Sri Lankan snake venoms and efficacy of antivenoms

### University of Peradeniya (Sri Lanka)

M.Phil. Master of Philosophy 2008 – 2011

Thesis: Systematics, venom characteristics and clinical features following envenomation by Sri Lankan hump-nosed vipers

### University of Peradeniya (Sri Lanka)

M.B.B.S. Bachelor of Medicine and Bachelor of Surgery 2001 – 2007

Second Class in 2<sup>nd</sup> MBBS, 3<sup>rd</sup> MBBS with distinctions in Parasitology and Pathology. B. H. Aluvihare Prize in Surgery for Final MBBS examination.

**Sri Lanka Medical Council Registration 2008** as a medical practitioner (SLMC: 24586)

## Academic Awards and Scholarships - International

- **Global Young Physician Leaders' award 2016** (Awarded by the Intra Academy Medical Panel and the World Academy of Sciences for 20 outstanding physician leaders in the world aged under 40 years–Berlin, Germany).
- 2014 **Informa Health Care Award** for the Best Platform Presentation paper presented at North American Conference of Clinical Toxicology (NACCT 2014), New Orleans, Louisiana, USA. “Diagnosis of snake envenoming using simple phospholipase A<sub>2</sub> assay”.
- 2014 **John Morris Scientific Award** for the Best Overall Scientific Poster Presentation at the Australian Society for Medical Research (ASMR) Satellite Scientific Meeting, Newcastle, Australia for “Diagnosis of snake envenoming using simple phospholipase A<sub>2</sub> assay”.
- 2016. Finalist of **Aspirin Social Innovation Award**, Bayer Foundations, Berlin, Germany.
- 2014 **ASMR Award for the Best Overall Scientific Poster** Presentation at the Australian Society for Medical Research (ASMR) Meeting, Sydney, Australia for “Diagnosis of snake envenoming using simple phospholipase A<sub>2</sub> assay”.
- 2012 **Australian Leadership Award**, offered by Government of Australia. Four years full scholarship for PhD studies at University of Newcastle. Australia. (AU\$ 226,468.00).

## Academic Awards and Scholarships - National

- 2016. **CVCD (Committee of Vice-Chancellors and Directors) Award** for the most outstanding young researcher in the field of medicine, dental, veterinary and allied sciences field in Sri Lanka offered by the HE president of Sri Lanka. I was the youngest awardee of this award who received it at the age of 36 years.
- 2017. **KSM (Kandy Society of Medicine) Health Research Prize** of the year 2017.
- 2017 Three **President's Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2016 **President's Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2015 **President's Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2014 **President's Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2013 **President's Award for Scientific Publications**. National Research Council (Awarded by the H.E. President of Sri Lanka).

- 2008 **President's Award for Scientific Publications.** National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2005 **Presidential Award for the best new invention of 2004:** Invention of a Microscopic Slide Projector (Patent No: 12460).
- 2005 **President's Award for Scientific Publications.** National Research Council (Awarded by the H.E. President of Sri Lanka).
- 2014. **Award for the Best publication by the Physician** at 48<sup>th</sup> Annual Academic Sessions, Colombo, for the publication titled "Revisiting Russell's Viper (*Daboia russelii*) Bite in Sri Lanka: Is Abdominal Pain an Early Feature of Systemic Envenoming?"
- 2005 **National Science Foundation Award for Young Scientists, 2005** (Undergraduate Category): Invention of a Microscopic Slide Projector (Patent No: 12460).
- 2012. **National Research Council Merit Award** for Scientific Publications, Sri Lanka.
- 2011. **National Research Council Merit Award** for Scientific Publications, Sri Lanka.
- 2010. **National Research Council Merit Award** for Scientific Publications, Sri Lanka.
- 2007 Ministry of Social Services and Social Welfare Award for outstanding performance as a young scientist, Sri Lanka.
- 2007 Awarded the B. H. Aluvihare Prize in Surgery for Final MBBS.
- Travel Grant 2011. Asia Pacific Association of Medical Toxicology, Penang, Malaysia (US\$ 750)
- Travel Grant 2015. Asia Pacific Association of Medical Toxicology, Perth, Australia. (US\$ 1000)

### **Leadership training**

- As an **Australian Leadership Award** recipient in 2012, I completed the Leadership for Development Program conducted by Australian Educational and Leadership Centre, Canberra, Australia. The training programme includes Leadership for Development Forum (Canberra), Leadership workshop (NSW), Leadership for Development conference (Canberra) and Leadership Coaching Module.
- **Global Young Physician Leaders' award 2016:** Awarded by Intra Academy Medical Panel and the World Academy of Sciences for 20 outstanding young physician leaders in the world aged under 40 years – Berlin, Germany. Under this selection, I completed their leadership training programme.

## Research Skills and Experience

- Clinical and Experimental Toxinology (snake envenoming)
- Randomized controlled clinical trials (snake envenoming)
- Cochrane systematic reviews (intervention reviews)
- Pharmacology of snake antivenoms (efficacy, effectiveness, pharmacokinetics and adverse effects)
- Coagulopathy of snake envenoming and toxins
- Manufacturing of Snake antivenoms
- Isolation and characterization of pharmacologically active compounds from animal venom
- Systematics of venomous snakes
- Systematics of freshwater fishes and lizards

## Laboratory skills

- Enzyme Linked Immunosorbant Assay (ELISA)
  - Development and quality control of snake antivenom
  - Western Blotting
  - High Performance Liquid Chromatography
  - In-vitro characterization of toxins
  - Pre-clinical efficacy testing of immunoglobulin based medications
  - Cell culture studies
  - Double-staining
- 
- Development of snake antivenom in Institute of Clodomiro Picado, Costa-Rica (2017).
  - Department of Clinical pharmacology and Toxicology, Newcastle Calvary Mater hospital, University of Newcastle, NSW, Australia (2010).
  - Monash venom Group, Department of Pharmacology, Monash University, Melbourne, Australia (2008).
  - Monash venom Group, Department of Pharmacology, Monash University, Melbourne, Australia (2009).
  - Isolation and In-vitro characterization of snake venom toxins (2009 - present).
  - Clinical trials on interventions for snake envenoming (2012-2016).
  - Training on Cochrane Systematic Reviews for interventions, Sydney, Australia (2013).
  - Laboratory experience on SDS-PAGE, Western blotting, High Performance Liquid Chromatography, Enzyme link Immunosorbant assay, *in-vitro* efficacy of snake antivenoms, lyophilization, clotting assays and *in-vitro* neuromuscular studies (2009 - present).
  - Six weeks training of equine based snake antivenom production and quality control at Institute of Clodomiro Picado, Costa-Rica under the supervision of Professor Jose Maria Gutierrez.
  - Six workshop training on Australian Highly venomous snake handling and collection of venom conducted by John Mostyn (Manager, Venom Collection Division, Australian Reptile Park, Gosford, NSW, Australia).
  - Clinical and epidemiological studies on snake bites in Sri Lanka (2012 to present).
  - Contributions to several systematic ichthyological and herpetological studies based on Sri Lankan and South Indian fauna, which led to discoveries of several new taxa (2007 - present).
  - Fieldwork experience during leading biodiversity explorations (freshwater fish, snakes and lizards) underwent in rainforests of Sri Lanka, since year 2000.

## Contributions to the academic / scientific journals as a reviewer

- Toxicon (Elsevier Publications)
- PLoS Neglected Tropical Diseases
- Transactions of the Royal Society for Tropical Medicine and Hygiene (Elsevier Publications)
- Wilderness and Environmental Medicine
- Complementary Therapies in Medicine
- Journal of Venomous Animals and Toxins Including Tropical Diseases
- Toxicological Reports
- Asian Pacific Journal of Tropical Medicine
- Acta Tropica
- Clinical Toxicology
- Journal of Mechanical Behaviour of Biomedical Materials
- Frontiers in Immunology
- Neurotoxicity Research (Elsevier Publications)
- Thrombosis Research (Elsevier Publications)
- Journal of Infections and Public Health (Elsevier Publications)
- Sri Lanka Journal of Medicine (SJM)
- Ceylon Journal of Science

## Inventions and patents

2004 Patent number 13388: A simple instrument for measuring distance and height.

2004 Patent number 13389: Compound light microscope converted to a projector.

2001 Patent number 12460: Microscopic Slide Projector

## Publications in SCI Journals

1. Sudasinghe H, Pethiyagoda R, Meegaskumbura M, **Maduwage K**, Britz R. *Channa kelaartii*, a valid species of dwarf snakehead from Sri Lanka and southern peninsular India (Teleostei: Channidae). **Verteb. Zool.** 2020. 70(2): 157–170 2020.
2. Ratnayake I, Mohamed F, Buckley NA, Gawarammana IB, Dissanayake DM, Chathuranga U, Munasinghe M, **Maduwage K**, Jayamanne S, Endre ZH, Isbister GK. (2019). Early identification of acute kidney injury in Russell's viper (*Daboia russelii*) envenoming using renal biomarkers. **PLoS Negl Trop Dis.** 2019 Jul 1;13(7):e0007486. doi: 10.1371/journal.pntd.0007486.
3. Villalta M, Sampaio TL, de Menezes RRPPB, Lima DB, Jorge ARC, Alves RS, Monteiro HSA, Gawarammana I, **Maduwage K**, Malleappah R, León G, Martins AMC, Gutiérrez JM. (2019). Nephrotoxicity induced by the venom of *Hypnale hypnale* from Sri Lanka: Studies on isolated perfused rat kidney and renal tubular cell lines. **Toxicon.** 2019 Jul;165:40-46. doi: 10.1016/j.toxicon.2019.04.014.
4. Sudasinghe H, Pethiyagoda R, **Maduwage K**, Meegaskumbura M. The identity of the Sri Lankan *Amblypharyngodon* (Teleostei, Cyprinidae). **ZooKeys** 820: 25–49. <https://doi.org/10.3897/zookeys.820.29632>

5. Ratnayake I, Shihana F, Dissanayake DM, Buckley NA, **Maduwage K**, Isbister GK. (2017). Performance of the 20-minute whole blood clotting test in detecting venom induced consumption coagulopathy from Russell's viper (*Daboia russelii*) bites. **Thromb Haemost.** 2017 Feb 28;117(3):500-507. doi: 10.1160/TH16-10-0769.
6. Isbister GK, Jayamanne S, Mohamed F, Dawson AH, **Maduwage K**, Gawarammana I, Lalloo DG, de Silva HJ, Scorgie FE, Lincz LF, Buckley NA. (2017). A randomized controlled trial of fresh frozen plasma for coagulopathy in Russell's viper (*Daboia russelii*) envenoming. **J Thromb Haemost.** 2017 Apr;15(4):645-654. doi: 10.1111/jth.13628.
7. **Maduwage, K.** O'Leary, M. Silva, A. Isbister, GK. (2016). Detection of Snake Venom in Post-Antivenom Samples by Dissociation Treatment Followed by Enzyme Immunoassay. **Toxins:** 28: 8(5), E130.
8. **Kalana Maduwage**, Anjana Silva, Margaret A O'Leary, Wayne C Hodgson, Geoffrey K. Isbister. (2016). Efficacy of Indian polyvalent snake antivenom against Sri Lankan snake venoms: lethality studies or clinically focussed *in vitro* studies. **Nature Scientific Reports.** 6.26778.
9. **Maduwage K**, Scorgie F, Lincz, O'Leary, M. Isbister, GK. (2015). Procoagulant snake venoms have differential effects in animal plasmas: Implications for antivenom testing in animal models, **Thrombosis Research**, 137, 174-177.
10. **Maduwage. K.** Buckley, NA. de Silva, HJ. Lalloo, DG. Isbister, GK. (2015). Snake antivenom for snake venom induced consumption coagulopathy. **Cochrane Database of Systematic Reviews** Issue. 6 Art.No.:CD011428.DOI: 10.1002/14651858.CD011428.pub2.
11. **Maduwage, K.** O'Leary, MA. Scorgie, FE. Shahmy, S. Mohamed, F. Abeysinghe, C. Karunathilake, H. Lincz, L. Gnanathasan, CA. Isbister, GK. (2014). Detection of Venom after Antivenom Is Not Associated with Persistent Coagulopathy in a Prospective Cohort of Russell's Viper (*Daboia russelii*) Envenomings. **PLoS Neglected Tropical Diseases** 8(12): e3304. doi:10.1371/journal.pntd.0003304.
12. **Maduwage, K.** Isbister, GK. (2014). Current Treatment for Venom-Induced Consumption Coagulopathy Resulting from Snakebite. **PLoS Neglected Tropical Diseases.** 8 (10): e3220. doi:10.1371/journal.pntd.0003220.
13. **Maduwage K**, O'Leary M, Isbister GK. (2014). Diagnosis of snake envenomation using a simple Phospholipase A2 assay. **Nature Scientific Reports** 4 (4827): DOI:10.1038/srep04827 (2014).
14. **Kalana Maduwage**, Fiona E. Scorgie, Seyed Shahmy, Fahim Mohamed, Chandana Abeysinghe, Harendra Karunathilake, Lisa F. Lincz, Christeine A. Gnanathasan, Geoffrey K. Isbister. (2013). Factor deficiencies in Hump-nosed pit viper (*Hypnale hypnale*) envenoming. **Clinical Toxicology** 51: 527-31.

15. **Kalana Maduwage**, Geoffrey K. Isbister, Anjana Silva, Sunil Bowatta, Suresh Mendis, Indika Gawarammana. (2013). Epidemiology and clinical effects of Hump-nosed pit viper (Genus: *Hypnale*) envenoming in Sri Lanka **Toxicon** 61: 11-15.
16. **Maduwage, K.** Kularatne, K. Wazil, A. Gawarammana, I. (2011). Coagulopathy, acute kidney injury and death following *Hypnale zara* envenoming – The first case report from Sri Lanka. **Toxicon**, 58: 641–643.
17. **Maduwage, K.**, A. Silva, K. Manamendra-Arachchi & R. Pethiyagoda. (2009). A taxonomic revision of the South Asian hump-nosed vipers (Squamata: Viperidae: Crotalinae: *Hypnale*). **Zootaxa** 2232:1–28.
18. **Maduwage, K.**, M. Meegaskumbura, A. Silva & R. Pethiyagoda. (2008). Phylogenetic utility of hemipenial morphology in Sri Lankan agamid lizards. **Current Science** 95: 838–840.
19. Silva A, Johnston C, Kuruppu S, Kneisz D, **Maduwage K**, Kleifeld O, Smith AI, Siribaddena, S, Buckley, NA, Hodgson, WC, Isbister, GK. (2016). Clinical and Pharmacological Investigation of Myotoxicity in Sri Lankan Russell’s Viper (*Daboia russelii*) Envenoming. **PLoS Neglected Tropical Diseases** 10(12): e0005172. doi:10.1371/journal.pntd.0005172.
20. Silva A, **Maduwage K**, Buckley NA, Laloo DG, de SilvaHJ, Isbister GK. Antivenom for snake venom-induced neuromuscular paralysis. **Cochrane Database of Systematic Reviews** 2017, Issue 3. Art. No.: CD012604. DOI: 10.1002/14651858.CD012604.
21. Sudasinghe H, R. Pethiyagoda, K. **Maduwage, M.** Meegaskumbura. (2016). *Mystus nanus*, a new striped catfish from Sri Lanka (Teleostei: Bagridae) **Ichthyological Explorations Freshwaters**, Vol. 27, No. 2, pp. 163-172.
22. Sudasinghe H, Pethiyagoda R, **Maduwage K**, Madhava Meegaskumbura. (2019) The identity of the Sri Lankan *Amblypharyngodon* (Teleostei, Cyprinidae). **Zookeys**. 2019 Jan 28;(820):25-49. doi: 10.3897/zookeys.820.29632.
23. Senanayake Kularatne, Kosala Weerakoon, Anjana Silva, **Kalana Maduwage**, Chamara Walathara, Ishani Rathnayake, Senal Medagedara, Ranjith Paranagama, Suresh Mendis, P.V.R. Kumarasiri. (2016). Efficacy of intravenous hydrocortisone administered 2e4 h prior to antivenom as prophylaxis against adverse drug reactions to snake antivenom in Sri Lanka: An open labelled randomized controlled trial **Toxicon** 120: 159-165.
24. Anjana Silva, **Kalana Maduwage**, Michael Sedgwick, Senaka Pilapitiya, Prasanna Weerawansa, Niroshana J Dahanayaka, Nicholas A. Buckley, Sisira Siribaddana, Geoffrey K. Isbister. (2016). Neurotoxicity in Russell’s viper (*Daboia russelii*) envenoming in Sri Lanka: A clinical and neurophysiological study. **Clinical Toxicology** DOI: 10.3109/15563650.2016.1143556).
25. Anjana Silva, **Kalana Maduwage**, Michael Sedgwick, Senaka Pilapitiya, Prasanna Weerawansa, Niroshana Dahanayake, Nicholas A. Buckley, Sisira Siribaddana, Geoffrey K. Isbister. (2016).

Common Krait (*Bungarus caeruleus*) envenoming in Sri Lanka: a clinical and neurophysiological study. **PLoS Neglected Tropical Diseases** 10(2): e0004368. doi:10.1371/journal.pntd.0004368.

26. Isbister GK, **Maduwage K**, Scorgie FE, Shahmy S, Mohamed F, Abeysinghe C, Karunathilake, H. Gnanathasan, CA. Lincz, LF. (2015). Venom Concentrations and Clotting Factor Levels in a Prospective Cohort of Russell's Viper Bites with Coagulopathy. **PLoS Negl Trop Dis** 9(8): e0003968. doi:10.1371/journal.pntd.0003968.
27. Isbister GK, **Maduwage K**, Saiao A, Buckley NA, Jayamanne SF, Seyed S. Mohamed, F. Chathuranga, U. Mendes, A. Abeysinghe, C. Karunathilake, H. Gawarammana, I. Laloo, DG. De Sliva HJ. (2015). Population Pharmacokinetics of an Indian F(ab)<sup>2</sup> Snake Antivenom in patients with Russell's Viper (*Daboia russelii*) Bites. **PLoS Neglected Tropical Diseases** 9(7): 0003873. doi:10.1371/journal.pntd.0003873.
28. Kularatne, S. A. M., Sivansuthan, S, Medagedara, S. C., **Maduwage, K.**, de Silva, A. (2011). Revisiting saw-scaled viper (*Echis carinatus*) bites in the Jaffna Peninsula of Sri Lanka: ecology, epidemiology and clinical manifestations. **Transactions of the Royal Society of Tropical Medicine and Hygiene**. 105 (2011): 591–597.
29. O' Leary MA, **Maduwage K**, Isbister GK. (2015). Detection of venom after antivenom administration is largely due to bound venom. **Toxicon**. 93: 112-11.
30. Kularatne SAM, Silva A, Weerakoon K, **Maduwage K**, Walathara C, Paranagama R, Mendis S. (2014). Revisiting Russell's Viper (*Daboia russelii*) Bite in Sri Lanka: Is Abdominal Pain an Early Feature of Systemic Envenoming? **PLoS One** 9(2): e90198. doi: 10.1371/ journal.pone. 0090198.
31. Kularatne SAM, Silva A, **Maduwage K**, Ratnayake I, Walathara C, Ratnayake C, Mendis S, Parangama R. (2014). Victims' Response to Snakebite and Socio-epidemiological Factors Of 1018 Snakebites in a Tertiary Care Hospital in Sri Lanka. **Wilderness and Environmental Medicine** 25, 35-40.
32. Kularatne SAM, Hettiarchchi R, Dalpathadu J, Mendis ASV, Appuhamy PDSAN, Zoysa HDJ, **Maduwage K**, Weerasinghe VS, de Silva A. (2013). *Enhydrina schistosa* (Elapidae: Hydrophiinae) the most dangerous sea snake in Sri Lanka: Three case studies of severe envenoming **Toxicon** 77, 78-86.
33. Isbister KG, **K. Maduwage**, S. Shahmy, F. Mohamed, C. Abeysinghe, H. Karunathilake, CA Ariaratnam, NA Buckley. (2013). Diagnostic 20-min whole blood clotting test in Russell's viper envenoming delays antivenom administration. **Quarterly Journal of Medicine** doi:10.1093/ qjmed/hct102.
34. O'Leary M, **Maduwage K**, Isbister, GK. (2013). Use of immunoturbidimetry to detect venom antivenom binding using snake venoms. **Journal of Pharmacology and Toxicological Methods** 67: 171-181.



35. Isbister GK, **Maduwage K**, Page CB. (2014). Antivenom cross neutralisation in a suspected Asian pit viper envenoming causing severe coagulopathy. **Toxicon** 90: 286-90.
36. Batuwita S. **Maduwage K**. Sudasinghe H. (2015). Redescription of *Pethia melanomaculata* (Teleostei: Cyprinidae) from Sri Lanka. **Zootaxa** 3936 (4): 575–583.
37. Pethiyagoda R, **Maduwage K**, Manamendra-Arachchi K. (2014). Validation of the South Asian cichlid genus *Pseudetroplus* Bleeker (Pisces: Cichlidae). **Ichthyological Exploration of Freshwaters** 3838 (5): 595–600.
38. Pethiyagoda, R., Meegaskumbura, M., **Maduwage, K.** (2012). A synopsis of the Indian and Sri Lankan fishes referred to *Puntius* Hamilton (Teleostei: Cyprinidae: Cyprininae). **Ichthyological Exploration of Freshwaters** 23 (1): 69–95.
39. Gower, D., **Maduwage K.** (2011). Two new species of *Rhinophis* Hemprich (Serpentes: Uropeltidae) from Sri Lanka. **Zootaxa**. 2881: 51–68.
40. Silva, A, **K. Maduwage** & R. Pethiyagoda. (2010). A review of the genus *Rasbora* in Sri Lanka, with description of two new species (Teleostei: Cyprinidae). **Ichthyological Exploration of Freshwaters** 21: 27–50.
41. Silva, A., **K. Maduwage** & R. Pethiyagoda. (2008). *Puntius kamalika*, a new species of barb from Sri Lanka (Teleostei: Cyprinidae). **Zootaxa** 1824: 55–64.
42. Pethiyagoda, R., M. Kottelat, A. Silva, **K. Maduwage** & M. Meegaskumbura. (2008). A review of the genus *Lanbuca* in Sri Lanka, with description of three new species (Teleostei: Cyprinidae). **Ichthyological Exploration of Freshwaters** 19: 7–26.
43. Meegaskumbura, M., A. Silva, **K. Maduwage** and R. Pethiyagoda. (2008). *Puntius reval*, a new barb from Sri Lanka (Teleostei: Cyprinidae: Puntius). **Ichthyological Exploration of Freshwaters** 19: 141–152.
44. Pethiyagoda, R., A. Silva, **K. Maduwage**. (2008). *Mystis ankutta* a new catfish from Sri Lanka (Teleostei: Bagridae). **Ichthyological Exploration of Freshwaters** 19: 233–242.
45. Pethiyagoda, R., A. Silva, **K. Maduwage** & L. Kariyawasam. (2008). The Sri Lankan Five-eyed Spiny Eel, *Macrogathus pentophthalmos* (Teleostei: Mastacembelidae), and its enigmatic decline. **Zootaxa** 1931: 37–48.
46. Pethiyagoda, R., A. Silva, **K. Maduwage** & M. Meegaskumbura. (2008). *Puntius kelumi*, a new barb endemic to Sri Lanka (Teleostei: Cyprinidae). **Ichthyological Exploration of Freshwaters** 19: 201–214.
47. Bahir, M. M. & **K. P. Maduwage**. (2005). *Calotes desilvai*, a new agamid lizard from Morningside Forest, Sri Lanka. **The Raffles Bulletin of Zoology**, Suppl. 12: 381–392.

### Publications in peer-reviewed journals

1. **Maduwage, K**, Silva, A. (2012). Hemipeneal Morphology of Sri Lankan Dragon Lizards (Sauria: Agamidae). **Ceylon Journal of Sciences (Bio. Sci)** 41 (2): 111-123.
2. Kudagammana T, Mohotti K, **Maduwage K**, Marasinghe S. (2016). Vitamin B12 status among underprivileged preschool children: Experience from two tea estates. **Sri Lanka Journal of Child Health**, 2016; 45(2): 111-115.
3. Kularatne SAM, Wimalasooriya S, Nazar K, **Maduwage K**. (2014). Thrombotic microangiopathy following Russell's viper (*Daboia russelii*) envenoming in Sri Lanka: a case report. **Ceylon Medical Journal** 59: 29-30.
4. **Maduwage, KP**, A. Silva and S. Batuwita. (2003). Snakes killed on the Roads of the Gardens of University of Peradeniya. **Loris**, 23: 22–24.
5. Kularatne, K., Budagoda S., **Maduwage, K.**, Nasar, K., Kumarasiri, R., Kularatne, S. (2011). Parallels between Russell's viper (*Daboia russelii*) and hump-nosed viper (*Hypnale* species) bites in the central hills of Sri Lanka amidst the heavy burden of unidentified snake bites. **South Asian Journal of Tropical Medicine** 2011: 564–567.
6. **Maduwage, K**. Hodgson, WC. Konstantakopoulos, N. O'Leary, MA. Gawarammana, I. Isbister, GK. (2011). The in vitro toxicity of venoms from South Asian Hump-nosed pit vipers (Viperidae: *Hypnale*). **Journal of Venom Research** 2: 17–23.
7. Anjana Silva, Panduka Gunawardena, Danister Weilgama, **Kalana Maduwage**, Indika Gawarammana. (2012). Comparative in-vivo toxicity of venoms from South Asian hump-nosed pit vipers (Viperidae: Crotalinae: Hypnale) **BMC Research Notes** 2012, 5:471.
8. Nikapitiya S. Maduwage K. Pharmacodynamics and pharmacokinetics of snake antivenom. **Sri Lanka Journal of Medicine** 2017, 21 (1): 51-65.

### Abstracts in conference proceedings (\* denotes presenter)

- Thilakarathne SV, Senevirathne AP, Nikapitiya BS, **Maduwage KP**. (2018). In-vitro Phospholipase A2 activity of Sri Lankan Snake Venom, Proceedings of Kandy Society of Medicine, p. 25.
- Nikapitiya BS, Thilakarathne SV, Senevirathne AP, **Maduwage KP**. (2018). In-vitro Phospholipase A2 activity of Sri Lankan Snake Venom, Proceedings of Kandy Society of Medicine, p. 26.
- **Maduwage, K\***. Scorgie, F. Lincz, L. O'Leary, M. Isbister, K. (2015). Effect of pro-coagulant snakevenoms on different animal plasma. Asia Pacific Association of Medical Toxicology (APAMT), University of Western Australia, Perth, Australia. Oral Presentation no: 27. 14<sup>th</sup> APAMT Conference Proceedings.
- Isbister, GK\*. **Maduwage, K**. Saiao, A. Buckley, NA. Jayamanne, SF. Seyed, S. Fahim, M. Mendes, A. Abeysinghe, C. Karunathilake, H. Gawarammana, I. Lalloo, DG. de Silva, HJ (2015). Population

pharmacokinetics of an Indian F(ab')<sub>2</sub> snake antivenom in patients with Russell's viper bite. XXXV International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT) 26-29 May 2015, St Julian's, Malta. Abstract published in special conference proceeding of Journal, *Clinical Toxicology* (2015), **53**, page 240. Abstract no 14.

- Scorgie, FE\*. Lincz L. **Maduwage, K.** Jayamanne, S. Fahim, M. Dawson, A. de Silva, HJ. Lalloo, DG. Buckley, NA. Isbister, GK. (2016). Recovery of clotting factors following administration of fresh frozen plasma for Russell's viper (*Daboia russelii*) envenoming. Haematology Society of Australia and New Zealand. Melbourne. Australia.
- **Maduwage, K\*.** Buckley, NA. de Silva, HJ. Lalloo, DG. Isbister, GK. (2015). Snake antivenom for snake venom induced consumption coagulopathy – A Cochrane Review. Asia Pacific Association of Medical Toxicology (APAMT), University of Western Australia, Perth, Australia. Presentation no: 05. 14<sup>th</sup> APAMT Conference Proceedings.
- **Maduwage, KP\*.** Silva, A. O'Leary, MA. Hodgson, WC. Isbister, GK. (2015). Efficacy of two Indian polyvalent snake antivenoms against coagulopathy and neurotoxicity of Sri Lankan snake venoms. Australian Society For Medical Research (ASMR) Satellite Scientific Meeting, 2<sup>nd</sup> April 2015. Hunter Medical Research Institute. Newcastle, Australia. Oral Presentation no 17.
- **Maduwage, K\*.** O'Leary, MA. Isbister, GK. (2014). Diagnosis of snake envenoming using a simple phospholipase A<sub>2</sub> assay. North American Congress of Clinical Toxicology (NACCT), New Orleans, USA. 17-21 October 2014. Oral Presentation no 10.
- **Maduwage, K\*.** O'Leary, MA. Isbister, GK. (2014). Diagnosis of snake envenoming using a simple phospholipase A<sub>2</sub> assay. Australian Society for Medical Research (ASMR) 23<sup>rd</sup> Annual Scientific Meeting, Powerhouse Museum, Sydney, Australia. 2<sup>nd</sup> June 2015. Presentation no: 91.
- **Maduwage, K\*.** Buckley, NA. de Silva, HJ. Lalloo, DG. Isbister, GK. (2015). Snake antivenom for snake venom induced consumption coagulopathy – A Cochrane Review. (2014). Australian Society for Medical Research (ASMR) 23<sup>rd</sup> Annual Scientific Meeting, Powerhouse Museum, Sydney, Australia. 1<sup>st</sup> June 2014. Presentation no: 31.
- **Maduwage, K\*.** Scorgie, F. Fahim, M. Karunathilake, H. Abeyasinghe, C. O'Leary, MA. Ariaratnam, CA. Isbister, GK. Measurement of venom and clotting function in patients with Russell's viper coagulopathy and response to antivenom. XXXIV International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT) 27–30, May 2014, Brussels, Belgium. *Clinical Toxicology* (2014), **52**, 347. Abstract no: 123.
- **Maduwage, K\*.** Scorgie, F. Isbister, GK. (2012). Clotting studies and factor deficiencies of Hump-nosed pit viper (*Hypnale hypnale*) envenoming in Sri Lanka. Asia Pacific Association of Medical Toxicology (APAMT), Hong-Kong. 29<sup>th</sup> November – 1<sup>st</sup> December 2012. *Hong-Kong Journal of emergency Medicine* 19 (6); p 426. Presentation no: O5.
- **Maduwage, K\*.** O'leary, MA, Isbister, GK. (2012). Efficacy of Two Indian Polyvalent antivenoms against Sri Lankan Russell's viper (*Daboia russelii*) and Saw-Scaled viper (*Echis carinatus*) venoms. Asia

Pacific Association of Medical Toxicology (APAMT), Hong-Kong. 29<sup>th</sup> November – 1<sup>st</sup> December 2012. *Hong-Kong Journal of emergency Medicine* 19 (6); p 428. Presentation no: O10.

- **Maduwage, K\***. Hodgson, WC. Konstantakopoulos, N. O’Leary, MA. Gawarammana, I. Isbister, GK. (2011). The *in vitro* toxicity of venoms from South Asian Hump-nosed pit vipers (Viperidae: *Hypnale*), 10<sup>th</sup> Asia Pacific Association of Medical Toxicology Conference, Penang, Malaysia.
- **Kalana Maduwage\***, Geoffrey K. Isbister, Anjana Silva, Sunil Bowatta, Suresh Mendis, Indika Gawarammana (2011). Hump-nosed pit viper (Genus: *Hypnale*) envenoming in Sri Lanka: A study of epidemiology and clinical profiles across species. 10<sup>th</sup> Asia Pacific Association of Medical Toxicology Conference, Penang, Malaysia. Presentation no. 121.
- Silva, A\*. Siribaddana, S. Sedgwick, M. **Maduwage, K.** Buckley, N. Isbister, GK. (2015). Indian Krait (*Bungarus caeruleus*) envenoming: A clinical and neurophysiological investigation of neuromuscular dysfunction. XXXV International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT) 26-29 May 2015, St Julian’s, Malta. Abstract published in special conference proceeding of Journal, *Clinical Toxicology* (2015), **53**, page 352. Abstract no 261.
- Johnston, C. Silva, A\*. Siribaddana, S. Ryan, NM. **Maduwage, K.** Isbister, GK. (2016). Sri Lankan Russell’s viper envenoming causes mild myotoxicity. 36<sup>th</sup> International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT) 24-27 May, 2016, Madrid, Spain. Abstract published in special conference proceeding of Journal, *Clinical Toxicology* (2015), 54 (4), page 480. Abstract no 257.
- Ratnayake, IU\*. Fahim, M. Shihana, F. Dissanayake, DM. Buckley, NA. **Maduwage, K.** Chaturanga, U. Aslam, Z. Isbister, GK. (2015). Urinary Neutrophil Associated lipocalin is an early biomarker of acute kidney injury following Russell’s viper envenoming. Asia Pacific Association of Medical Toxicology (APAMT), University of Western Australia, Perth, Australia. Oral Presentation no: 34. 14<sup>th</sup> APAMT Conference Proceedings.
- Silva, A\*. **Maduwage, K.** Siribaddana, S. Isbister, GK. (2015). Adult snakebite patients admitted to a tertiary care centre in rural Sri Lanka: A Cohort Study. Asia Pacific Association of Medical Toxicology (APAMT), University of Western Australia, Perth, Australia. Presentation no: 05. 14<sup>th</sup> APAMT Conference Proceedings.
- O’Leary, MA\*. **Maduwage, K.** Isbister, GK. Detection of venom post-antivenom (Venom antigemaemia) is largely due to Vavaemia. International Society of Toxinology, Asia Pacific Conference (IST), Changsha, China.
- O’Leary, MA\*. **Maduwage, K.** Isbister, GK. Detection of venom post-antivenom (Venom antigemaemia) is largely due to Vavaemia. Scientific Meeting of Toxicology And Poisons Network Australasia (TAPNA) 2014. Newcastle, Australia. 30<sup>th</sup> April – 3<sup>rd</sup> May 2014. Conference proceedings p. 31.
- Silva, A\*. **Maduwage, K.** O’Leary, MA. Weilgama, D. Isbister, GK. (2013). Development of Rabbit polyclonal antibodies (pAb) against snake venoms in a resource poor setting. Scientific Meeting of

Toxicology And Poisons Network Australasia (TAPNA) 2013. Newcastle, Australia. 2<sup>nd</sup> – 4<sup>th</sup> May 2013. Conference proceedings p. 24.

- Kularatne, K. Budagoda S. **Maduwage, K\***, Nasar, K. Kumarasiri, R. Kularatne, S. (2011). Comparative study of Merrem's hump-nosed pit viper (*Hypnale hypnale*) bites between two climatic zones (wet vs. dry zone) in Sri Lanka. 10<sup>th</sup> Asia Pacific Association of Medical Toxicology Conference, Penang, Malaysia. Presentation no. 65.
- 2011. Sivansuthan, S. Kularatne, S. **Maduwage, KP**. Ratnayake, I\*. Peranagama, R. Mendis, S. Medegedera, SC. Walatara, C. Ratnayake, RIS. (2011). A Descriptive Study of Offending Species and Epidemiology of Snake Bites of Two areas in the Dry Zone of Sri Lanka: Anuradhapura and Jaffna. Proceedings of the Peradeniya University Research Sessions. Sri Lanka. Vol 16, p 99.
- Pushpakumara, PHGJ\*. Priyashantha, AG. **Prasad, MK**. Prasad, MKM. Prasanna, AA. Pandian, R. Ranaraja, RMRD. Ranasingha, Y. Ranaweera, UPNP. (2011). Effects of environmental temperature on visual and auditory reaction time in healthy young adults. *The Kandy Society of Medicine, 33rd Annual Academic Sessions*. p. 36-37.
- Medegedara, SC\*. Kularatne, SAM. **Maduwage, K**. Sivansuthan, S. de Silva, A. (2011). Epidemiology of snake bites in Jaffna Peninsula: A hospital based study. *The Kandy Society of Medicine, 33rd Annual Academic Sessions*. p. 130.
- **Maduwage, K\***. O'Leary, MA. Isbister, GK. (2014). Diagnosis of snake envenoming using a simple phospholipase A<sub>2</sub> assay. Scientific Meeting of Toxicology And Poisons Network Australasia (TAPNA) 2014. Newcastle, Australia. 30<sup>th</sup> April – 3<sup>rd</sup> May 2014. Conference proceedings p. 15.
- **Maduwage, K\***. O'Leary, MA. Isbister, GK. (2014). Diagnosis of snake envenoming using a simple phospholipase A<sub>2</sub> assay. Australian Society For Medical Research (ASMR) Satellite Scientific Meeting, 21<sup>st</sup> March 2014. Hunter Medical Research Institute. Newcastle, Australia. Presentation no 54.
- **Maduwage, K\***. O'Leary, MA. Scrogie, F. Shahmy, S. Abeysinghe, C. Isbister, G. (2013). Venom Recurrence in Russell's Viper (*Daboia russelii*) Envenoming in Sri Lanka. Asia Pacific Association of Medical Toxicology (APAMT), Dubai. 21<sup>st</sup> – 23<sup>rd</sup> November 2013. Presentation no: 34. 12<sup>th</sup> APAMT Conference Proceedings p. 94.
- Silva A\*, Gunawardena P, , **Maduwage K**, Gawarammana I, Weilgama D. 2011. Comparison of in-vivo toxicity of venoms from south Asian hump-nosed pit vipers (Viperidae: *Hypnale*) 10th Asia Pacific Association of Medical Toxicology Conference, Penang, Malaysia. Presentation no: 11
- Silva A,\* Gunawardena P, Weilgama D, Gawarammana I, **Maduwage K**. 2011. Comparison of in-vivo nephrotoxicity caused by the venoms of south Asian hump-nosed pit vipers (Viperidae: Crotalinae: *Hypnale*) 2<sup>nd</sup> Annual Research Session, Rajarata University of Sri Lanka. Page 149-152.

#### Research featured in international / national news

- <http://www.abc.net.au/science/articles/2014/06/05/4018712.htm?site=tv&topic=latest>

- <https://www.sbs.com.au/news/aussies-develop-rapid-test-for-snake-venom>
- <https://www.novabiostorage.com/sample-storage-news/blood-test-developed-to-detect-venom-in-snakebites>
- <https://www.9news.com.au/health/2014/06/02/14/17/aussies-develop-rapid-test-for-snake-venom>
- <http://scientist.lk/2016/11/18/a-sri-lankan-innovation-short-listed-for-aspirin-social-innovation-awards-2016/>
- <http://www.sundaytimes.lk/180715/news/how-to-keep-our-serpents-in-paradise-302412.html>
- <https://www.dailymail.co.uk/news/article-2645716/Aussies-develop-rapid-test-snake-venom.html>
- <https://window2nature.wordpress.com/2016/10/01/study-shows-problems-with-snake-antivenom/>
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- <http://scientist.lk/2016/11/18/a-sri-lankan-innovation-short-listed-for-aspirin-social-innovation-awards-2016/>

## Dissemination of research and teaching experience

### Orations

- 2017. **SLMA Oration; Dr. S. Ramachandran Oration at Sri Lanka Medical Association 130th International Sessions.** July 2017 at Hotel Galadari, Colombo, Sri Lanka. Title of the Oration is “Diagnosis of snake envenoming: A challenge of 21st century in tropics”.
- 2017. **Bibile Memorial Oration,** 39th Annual Academic Sessions at Kandy Society of Medicine, Kandy, Sri Lanka. Title of the oration: “Snakebite coagulopathy, Controversies on understanding and management”.
- 2017. **KSM (Kandy Society of Medicine) Health Research Prize and the Oration.** “Evidence Based Clinical Practice; A Paradigm shift of snake envenoming management”. National Agricultural Information and Communication Centre, Gannoruwa, Kandy, Sri Lanka.

### Keynote speeches, invited speeches, resource persons at scientific conferences and workshops

- Invited speech World Health Summit October 2017, Berlin, Germany. Rapid Venom Test Device – Solving a Medical Dilemma. Invited Speaker. At Kosmos, Karl-Marx-Alle. Berlin Germany.
- Invited speech at Institute of Clodomiro Picado (ICP), University of Costa-Rica. 22.03.2017. Guest Lecture “Potentials and Limitations of snake antivenoms in the management of snake envenoming”.
- Invited speech at academic staff of Division of Biology and Biological Engineering, California Institute of Technology (Caltech), California, USA. 11.04.2017. Guest Lecture “Snake envenoming: burden, challenges. Antivenom and beyond”.
- Invited speech at the 12<sup>th</sup> International Conference of Asia Pacific Association of Medical Toxicology (APAMT), Dubai. 2013. Keynote Speaker “Assessment of efficacy and effectiveness of snake antivenoms”.
- Conference of Toxicology and Poisoning network of Australasia (TAPNA), Newcastle, Australia. 2013 “Assessing the efficacy of antivenoms for Sri Lankan venomous snakes”. Keynote speaker and

- Invited speaker at the Sri Lanka Emergency Medical Congress, Water's Edge, Colombo. November 2017.
- Annual Academic Sessions, Ceylon College of Physicians (CCP), Cinnamon Grand Hotel, Colombo. 22.09.2016. Workshop "Management of snake envenomation based on latest evidence from Sri Lanka".
- Invited talk based on original research findings from the faculty alumni at The 50<sup>th</sup> Anniversary Celebrations, Faculty of Medicine, University of Peradeniya. January 2012. "Hump-nosed pit vipers: Species specific toxicity and clinical profile following a taxonomic revision", .
- Seminar at Veterinary Teaching Hospital, Faculty of Veterinary Medicine, University of Peradeniya. 23.03.2015. Invited symposium lecture on "Effectiveness of antivenom against snakes in Sri Lanka".
- Guest Lecture at Centre For Research in Tropical Medicine (CRTM), Faculty of Medicine, University of Peradeniya. 17.03.2015 "Effectiveness of antivenom against snakes in Sri Lanka".
- Annual Scientific Sessions 2017- Batticaloa Medical Association. Seminar on "Better outcomes of snake envenoming management based on recently uncovered knowledge".
- Toxic issues in the Emergency Department, Sri Lanka Society of Critical Care and Emergency Medicine, Faculty of Medicine, General Sir John Kotelawala Defense University, Colombo. December 2018.
- Annual Academic Sessions, Ceylon College of Physicians (CCP), Cinnamon Grand Hotel, Colombo. 22.09.2016. Workshop "Management of snake envenomation based on latest evidence from Sri Lanka".
- Colombo Conference on Medical Education. 10<sup>th</sup> and 11<sup>th</sup> November 2017, Colombo, Sri Lanka.
- Foundation Sessions of the Sri Lanka Medical Association (SLMA) 2016, Lionel Memorial Auditorium of SLMA, Colombo. 22.10.2016. "Management of snakebites".
- 
- Library User Seminar sponsored by the WHO through the Ministry of Health and conducted by the Health Literature Library and Information Services (HaLLIS) Network. Nursing Training School, Kandy. 29.09.2016. "EndNote Reference Manager".
- Workshops of Human structure and function organize by the Department of Anatomy, Faculty of Medicine, University of Peradeniya. 4 workshops during 2017.
- Post graduate Ms Gyn/Obs course (Gynaecology and Obstetrics part 1) conducted by the Department of Gynaecology and Obstetrics, Faculty of Medicine, Peradeniya. 2016.
- Post graduate Ms Gyn/Obs course (Gynaecology and Obstetrics part 1) conducted by the Department of Gynaecology and Obstetrics, Faculty of Medicine, Peradeniya. 2017.
- Workshop. "Understanding your higher degree: Things you wont's find in books" for the higher degree candidates of the Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka on 13<sup>th</sup> December 2017.

- Snakes and the Epidemiology of snake bites. “global Health Seminar on snakebites and Management” Cross-disciplinary Course on Global Health and Research. Faculty of Medicine and Allied Sciences, Rajarata University of Sri Lanka on 11<sup>th</sup> August 2017.
- 2017. Re-integration workshop for newly returned Australia Awards Scholars held on the 8th of December 2017, Australia Awards Sri Lanka.
- Invited speech at the Sri Lanka Emergency Medicine Congress, 2017. At Water’s Edge, Colombo on 12<sup>th</sup> November 2017. “How many vials of antivenom do we need”
- Toxic issues in the Emergency Department, Sri Lanka Society of Critical Care and Emergency Medicine, Faculty of Medicine, General Sir John Kotelawala Defense University, Colombo. 08.04.2016 “Better outcomes of Sri Lankan snake envenoming with recently uncovered knowledge”,
- Resource person at The toxicology workshop adjoining to Sri Lanka Emergency Medicine Congress, 2017. At Kothalawala Defense University on 6<sup>th</sup> November 2017.
- Toxic issues in the Emergency Department, Sri Lanka Society of Critical Care and Emergency Medicine, Waters Edge, Colombo, 04.12.2016. “Management of snake envenoming based on latest evidence from Sri Lanka”,
- Workshop of Toxicology And Poisons Network Australia (TAPNA), APAMT 2015 pre congress symposium, University of Western Australia, Perth, Australia. 02.12.2012. “Better outcomes of Asian snake envenoming with recently uncovered knowledge”.

### **Teaching and curriculum development experience and contributions**

- Ten years of teaching experience of cellular, nutritional, systematic, experimental and clinical biochemistry for medical undergraduate at Faculty of Medicine, University of Peradeniya, Sri Lanka. 2009 - present
- Continuous three years teaching experience of clinical medicine for second and third year medical undergraduate at University of Newcastle, Australia. 2013 - 2015
- Examiner for clinical medicine examinations at University of Newcastle, Australia. 2012 - 2015
- Conduct lectures, small group discussions, practicals, problem based learning and examinations for medical undergraduates, Faculty of Medicine, University of Peradeniya, Sri Lanka. 2009 - 2012 and 2016 - present
- Conduct lectures, practicals and examinations for Master of Science, Clinical Biochemistry students at Postgraduate Institute of Science, University of Peradeniya, Sri Lanka. 2016 - present
- Lectures, problem based learning sessions, examination on snake envenoming and management for medical undergraduates at Faculty of Medicine, University of Peradeniya. 2016 - present
- Designer and Module Coordinator: Integrated Applied Medicine 1 and Integrated Applied Medicine 2 Module, MBBS Course, Faculty of Medicine, University of Peradeniya. Coordination of all pre, para and clinical academics of the faculty and developed this new module / course including



aims, intended learning. Developed a novel student centred clinical case based integration sessions new curriculum of MBBS. 2016 - present

- Developed of new biochemistry curriculum relating to the major curriculum revision occurred in 2016 in the MBBS degree programe. I was actively engaged with the designing of aims, allocation of credits, intended learning outcomes, course contents, structure of assessments and timing were revised by many discussion and meeting in the department. 2017
- As the initiator and the coordinator of the novel teaching / learning method / concept “Display Boards” at the department, I was actively engaged with the development of Biochemistry display boards to summarize the course contents of the curriculum. The novel concept resulted by initial development of 10 display board under various course contents and this tool facilitates the regular exposure of students to teaching material and quick review before the assessment.
- Developed a comprehensive toxinology laboratory in the Department of Biochemistry, Faculty of Medicine, Peradeniya. I was instrumental in designing and implementing basic infrastructure, procurement and installation of equipments and optimization for the toxinology assay procedures.
- Initiation and coordination of Journal Club meeting at Department of Biochemistry., Faculty of Medicine, University of Peradeniya, Sri Lanka.
- Designer of the basic medical sciences undergraduate curriculum at the Faculty of Medicine, Wayamba University of Sri Lanka. Sri Lanka.
- Visiting lecturer at Sri John Kothalawala Defence University, Sri Lanka. 2016 and 2017

### **Memberships and Affiliations**

- International Society of Toxinology (IST)
- Australian Society for Medical Research (ASMR)
- Asia Pacific Association of Medical Toxicology (APAMT)
- Member of the Snakebite Experts Committee, Sri Lanka Medical Association. Sri Lanka.
- Referee of the Sri Lanka Journal of Medicine (SJM).
- Viper specialized group, IUCN (International Union for Conservation of Nature)
- Member, Centre for Research in Tropical Medicine (CRTM), University of Peradeniya, Sri Lanka
- Member of Ethical Review Committee, Faculty of Medicine, University of Peradeniya, Sri Lanka.
- Secretary - Higher Degree Committee, Faculty of Medicine, University of Peradeniya

### **Academic books published**

- Snake Fauna of Sri Lanka with special Reference to Skull, Dentition and Venom. Co-authored with Dr. P. H. D. H. De Silva. S. Godage publishers, Colombo. 452 pp. ISBN: 978-955-30-9024-9

<http://www.godage.com/book-details/environment/9645-snake-fauna-of-sri-lanka-with-special-reference-to-skulldentiton-and-venomrevised-edition.html>

### **Other scientific contributions**

• **Free web based snake identification service for Sri Lanka.** <https://snakesidentification.org/>  
Any person could submit their query of snake identification (details and images) to this website and the team identifies the snake and respond to the person immediately.

• **Youtube lecture series of snake envenoming.** Nine vocalized lecture series “Snakebites; the Whole Story”. e-Learning material for undergraduate and post-graduate medical students.  
[https://www.youtube.com/watch?v=1YBKgp2Luq4&list=PLbK1TKLi\\_KNWZ5J-MskTeKrL2z1UetujF](https://www.youtube.com/watch?v=1YBKgp2Luq4&list=PLbK1TKLi_KNWZ5J-MskTeKrL2z1UetujF)

### **Academic references**

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### **Verification Statement**

I verify that the information contained within this Curriculum Vitae is true and correct as at 22nd May 2020.

Signed by

Maduwage Kalana Prasad