

Curriculum Vitae

Name Preethi Vidya UDAGAMA
Date of Birth 27 February 1958
Citizenship Sri Lankan
Current Appointment Chair & Senior Professor, Department of Zoology and Environment Sciences, Faculty of Science, University of Colombo

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Academic Qualifications

BSc in Biological Sciences (1980), University of Colombo.
MSc in Nuclear Science (1984), Faculty of Science, University of Colombo.
PhD in Immuno-parasitology(1990), Faculty of Medicine, University of Colombo.

Postdoctoral Fellowships:

Tenured at the Tree Physiology & Biotechnology Laboratory, Faculty of Forestry & Environmental Management, University of New Brunswick, Canada
April 1990- March 1992 Post-doctoral fellowship
April 1992 - March 1994 Visiting fellowship
Both awarded by the Natural Sciences & Engineering Research Council of Canada.

Fellowship of Professional Bodies:

Fellow of the National Academy of Sciences, Sri Lanka (2017)
Fellow of the Institute of Biology, Sri Lanka (2010)
[Chartered Biologist of the Institute of Biology, Sri Lanka (2010)].

Chronology of Professional Activity:

Jan 15, 2021 – to date	<i>Chair Professor</i>
Oct 2016 – to date	<i>Senior Professor</i>
May 31, 2021 – Feb 26, 2023	<i>Head of Department</i>
Sept 2008 – Aug 2016	<i>Professor in Zoology</i>
Sept 2000 – Aug 2008	<i>Senior Lecturer (Grade I)</i>
Sept 1994 – Aug 2000	<i>Senior Lecturer (Grade II)</i>
	Department of Zoology & Environment Sciences, University of Colombo, Sri Lanka
Feb.1990 - April 1994	<i>Postdoctoral Fellow & Visiting Fellow</i> Tree Physiology & Biotechnology Laboratory Faculty of Forestry & Environmental Management University of New Brunswick, Canada.
Jan.1985 - Dec.1989	<i>Research Assistant</i> Malaria Research Unit, Faculty of Medicine, University of Colombo.
June 1981- Dec.1984	<i>Scientific Officer, Atomic Energy Authority of Sri Lanka.</i>
January - May 1981	<i>Teaching Assistant</i> Department of Zoology, University of Colombo.

Academic and Professional Awards

- April 1990- March 1992 Post-doctoral fellowship
 - April 1992 - March 1994 Visiting fellowship
- Both awarded by the Natural Sciences & Engineering Research Council of Canada. Tenured at the Tree Physiology & Biotechnology Laboratory, Faculty of Forestry & Environmental Management, University of New Brunswick, Canada
- 2006 Excellence in Research - Merit award in Biotechnology for 2004
Awarded by the National Science Foundation, Sri Lanka
- 2004 & 2006 Presidential Research Awards
- 2007, 2009, }
2011, 2013, }
2014, 2015, }
2016, (2019) }
- President's Award for Scientific Publication
- 2010, 2017, 2018 National Research Council Merit Award
- 2014 Award for Excellence in Research, Faculty of Science, University of Colombo.
- 2014 Sri Lanka Association for the Advancement of Science, General Research Committee Award (Lifetime award for excellence in research carried out in Sri Lanka)
- 2016 Senate Award for Research Excellence (Commendation), University of Colombo
- 2017, 2020, 2021 Senate Award for Research Excellence, University of Colombo
- 2019 Support Scheme for supervision of Research Degrees (SUSRED) Award 2017 - National Science Foundation, Sri Lanka for the supervision of Dr. U A Jayawardhana on her PhD thesis titled "Toxic effects of selected heavy metals, as xenobiotics on *Euphlyctis hexadactylus* (Indian green frog) in a polluted urban wetland, Bellanwila Attidiya sanctuary, in Sri Lanka
- 2020 The Best Publication by a Physician in 2019 awarded by the Ceylon College of Physicians awarded to Prof. Thashi Change for the paper authored by Dilini Rathnayake, Thashi Chang and Preethi Udagama for the paper titled "Selected serum cytokines and nitric oxide as potential multi-marker biosignature panels for Parkinson disease of varying durations: A case-control study".
- 2021 SUSRED Award 2019, National Science Foundation, Sri Lanka for the supervision of Dr. C D Jayasinghe on her PhD thesis titled "Haematological, immunomodulatory and cancer chemopreventive activities of the mature leaf concentrate of *Carica papaya* L Sri Lankan wild type cultivar"
- 2023 SUSRED Award 2021, National Science Foundation, Sri Lanka for the supervision of Dr. V LK Udalamaththa on her PhD thesis titled "Proliferative, differentiation and toxicological effects of selected herbal preparations on in-house established human mesenchymal and haematopoietic stem cell lines".

Executive Summary:

Teaching:

- **Undergraduate teaching:** (Coordinated Fourth year special programme in Parasitology until 2012; Teaching faculty of Immunology & Integrative Molecular Biology special programme offered by the Department since 2014)
 - Human health and diseases, Introduction to Biological Psychology, Animal and Human Parasites, Advanced Parasitology, Ecotoxicology, Parasitology, Immunology, Molecular

Immunology, Molecular Biological and Immunological applications, Immune System in Disease, Molecular Medicine, Advanced Applications in Immunology and Molecular Biology, Molecular and Immuno Toxicology, Bioethics, Practical immunology.

Postgraduate teaching:

- MSc in Biochemistry and Molecular Biology (lectures in Immunology), Dept of Biochemistry and Molecular Biology, Faculty of Medicine, University of Colombo. (2000 – todate)
- MD in Oncology (lectures in Radiobiology), Post graduate Institute of Medicine, University of Colombo (2016- todate)
- MSc in Nuclear Science & MSc in Radiation Physics (lectures in Radiobiology), Department of Nuclear Science, University of Colombo.
- MSc in Environmental Science, Dept. of Zoology & Environment Sciences, University of Colombo.

Postgraduate Curriculum development:

- Played key role in curriculum design and programme development of the first ever MSc in Immunology in Sri Lanka - MSc in Cellular and Molecular Immunology- offered by the Institute of Biochemistry, Molecular Biology and Biotechnology, University of Colombo launched in February 2005.
- Currently involved in developing MSc in Integrative Immunology & Molecular Biology, and MSc in Biology Education to be offered by the Department of Zoology & Environment Sciences, University of Colombo.

Research:

- **Areas of Interest:**
 - Bioprospecting for natural products using cues from Sri Lankan Traditional Medicine for immunomodulatory activity, and for stimulants of stem cell proliferation, screened on in-house developed stem cell platforms and in murine models
 - Immuno- & Molecular Epidemiology of *Plasmodium vivax* asexual stage vaccine candidates in Sri Lanka
 - Immune mediators (cytokines, Vitamin D etc.) of noncommunicable diseases
 - Association of Human Papilloma Virus (HPV) with Oral & Oropharyngeal Cancers/ Lung cancers/ esophageal cancer in Sri Lanka
 - Reproductive & Pregnancy Immunology
 - Eco-Immunotoxicology & Nanotoxicology
 - Development of Immunologic and Molecular Diagnostics
 - Ecto- and endo-parasites of vertebrates of Sri Lanka
- **Research Training & Supervision**
 - 15 PhDs, an MPhil, 8 MSc/ MD, and 66 BSc special projects (4 currently ongoing)
- **Postgraduate Examiner**
 - MSc/MPhil/PhD theses from Sri Lankan and Indian Universities
- **Reviewer of National/ International Scientific Journals**
- Establishment of the Combinatorial Research Laboratory (<https://crl.cmb.ac.lk>)
 - I established a combined undergraduate and postgraduate teaching and research laboratory with Immunology (1998), Molecular Biology (2006) and Cell Culture (2015) facilities in the Department of Zoology and Environment Sciences, University of Colombo. This lab facility serves intra/inter department, inter faculty, and inter university students/ academics.

Service:

- **Department level:**
 - Establishment of the Center for Immunology & Molecular Biology (2021)
 - As Head of the Department, I was able to lead the Zoology Building Renovation project to completion, complete the Zoological Museum project, Renovation of the old Zoology building project, temporarily acquired the 6th floor of the Statistics Building for our department

- **Faculty level:**
 - **Career & Personal Development Programme of the Faculty:**
 - *Founder Chairperson of the Career Guidance Committee* (2009 to July, 2014)
 - *Founder Director, Career Guidance Unit* (from Oct 2011 to July, 2014)
 - Chairperson, Research Committee, Faculty of Science, University of Colombo (Feb. 2021-Feb. 2023)
 - Conceptualised and Initiated the establishment of the Faculty Ethics Review Committee (2021/22) and the Center for Transdisciplinary Biotech Research (2022)
- University level:
 - Chairperson, Annual Research Symposium 2020 Organizing Committee, University of Colombo (Sept 2020 – January 2021)
 - Member of Special Research Committee with the Senior Advisor to the Vice Chancellor, University of Colombo (2020-2021).
- National level:
 - General President, Sri Lanka Association for the Advancement of Science (2019)
 - President, Institute of Biology, Sri Lanka (2000)
 - Founder Council Member, Allergy and Immunology Society of Sri Lanka (1999/2000)
 - Council member, National Academy of Sciences Sri Lanka (2023/24)
 - Member representing the Sri Lanka Association for the Advancement of Science in the National Science Foundation Steering Committee on Gender in Science, Technology, Engineering & Mathematics (STEM). 2018-2019
 - Member of the National Science Foundation Steering Committee on Bioethics. 2018
 - Chairperson of NSF sub committee appointed to develop guidelines on the use of stem cells in basic and translational research-2019/2020
 - Member, Board of Management of the National Science Foundation, 2019
 - Member, Technical Evaluation Committee, Sri Lanka Biotechnology Innovation Park under the Ministry of Finance, Economic Stabilization and National Policy, appointed in July 2020

Scientific Publications

1. **Udagama P V**, David P H, Peiris J S M, Ariyaratne Y G, Perera K L R L and Mendis K N. (1987). Antigenic polymorphism in *Plasmodium vivax* malaria: comparison of 50 parasite isolates with a panel of 30 monoclonal antibodies. *Infection and Immunity* 55(11): 2604-2611.
2. **Udagama P V**, Atkinson C T, Peiris J S M, David P H, Mendis K N and Aikawa M. (1988). Immunoelectron microscopy of Schuffner's dots in *Plasmodium vivax* - infected human erythrocytes. *American Journal of Pathology* 131(1): 48-52.
3. Peiris J S M, Premawansa S, Ranawaka M B R, **Udagama P V**, Nanayakkara M V, Munasinghe Y D, Gamage C P, David P H, Carter R and Mendis K N. (1988). Monoclonal and polyclonal antibodies both block and enhance transmission of human *Plasmodium vivax* malaria. *American Journal of Tropical Medicine and Hygiene* 39: 26-32.
4. Del Portillo H A, Gysin J, Mattei D M, Khouri E, **Udagama P V**, Mendis K N and David P H. (1988). *Plasmodium vivax*: cloning and expression of a major blood-stage surface antigen. *Experimental Parasitology* 67: 346- 353.
5. **Udagama P V**, Gamage-Mendis A C, David P H, Peiris J S M, Perera K L R L, Mendis K N and Carter R. (1990). Genetic complexity of *Plasmodium vivax* parasites in individual human infections analyzed with monoclonal antibodies against variant epitopes on a single parasite protein, PV200. *American Journal of Tropical Medicine and Hygiene* 42(2): 104-110.
6. Savidge R A and **Randeniya P V**. (1992). Evidence for coniferyl-alcohol oxidase promotion of lignification in developing xylem of conifers. *Biochemical Society Transactions*, 641st Meeting, Royal Holloway and Bedford New College, University of London, U.K. 20:229S.
7. Savidge R A and **Udagama-Randeniya P V**. (1992). Cell-wall bound coniferyl alcohol oxidase associated with lignification in conifers. *Phytochemistry* 31(9):2959-2966.

8. **Udagama-Randeniya P V** and Savidge R A (1994) Electrophoretic analysis of coniferyl alcohol oxidase and related laccases. *Electrophoresis* 15:1072-1077. (**submitted on invitation by Prof.Dr.G.MRothe who edited a "paper symposium" for this journal entitled "Gradient Gel Electrophoresis"**).
9. Leinhos V, **Udagama-Randeniya P V** and Savidge R A (1994) Purification and N-terminal sequencing of aconiferin hydrolyzing beta-glucosidase from developing xylem of *Pinus banksiana*. *Phytochemistry* 37(2):311-315.
10. Snewin V A, Premawansa S, Kapilananda G M G, Ratanayake L, **Udagama P V**, Mattei D M, Khouri E, DelGuidice G, Peiris J S M, Mendis K N, David P H (1995). Transmission blocking immunity in *Plasmodium vivax* malaria: Antibodies raised against a peptide block parasite development in the mosquito vector. *Journal of Experimental Medicine*. 181; 357-362.
11. **Udagama-Randeniya P V** and Savidge R A. (1995). Coniferyl alcohol oxidase - a catechol oxidase?, *Trees*, 10:102-107.
12. Sannasuriya, A., Premawansa, S, Dharmasiri, M.G., **Randeniya, P.** and Ratnasooriya, W.D. (1999) *Trypanosoma lewisi* in *Rattus norvegicus* in Sri Lanka. *Ceylon Journal of Science (Biological Science)*, 27(1): 33-40.
13. Weerakkody, A S A, **Randeniya, P V** and Ratnasooriya, W D (1999). Ecology of ectoparasites of some cave dwelling microchiropterans in Sri Lanka. *Vidyodaya Journal of Science*, 8: 200-212.
14. Yapa, W B, Kumarasinghe, J, Digana, P M C B, **Randeniya, P V** and Ratnasooriya (1999). Food Preference of Sri Lankan short nosed fruit bat (*Cynopterus spinx*) in Sri Lanka. *Vidyodaya Journal of Science*, 8: 114-121.
15. Seneviratne, G D C N, Manamperi, A A P S, Kapilananda, G M G, Longacre, S, Handunetti, S M and **Udagama-Randeniya, P V** (2000). Development of a double antibody sandwich ELISA for diagnosis of vivax malaria: A tool for further research. *Ceylon Journal of Medical Science*, 43 (1): 11-18.
16. Brown, W A, **Udagama-Randeniya, P V** and Seneviratne, S S (2003). Two new species of chiggers (Acari:Leeuwenhoekidae and Trombiculidae) from bats (Chiroptera) collected in the Kanneliya forest reserve of Sri Lanka. *International Journal of Acarology*, 29 (1): 69-73.
17. V Leinhos, PV Udagama-Randeniya, RA Savidge (2004). Purification of an acidic coniferin-hydrolysing -glucosidase from developing xylem of *Pinus banksiana*. *Phytochemistry* 37 (2), 311-315
18. Kalubowila, D G W, **Udagama-Randeniya, P V**, Perera, N A N D and Rajapakse, R P V J (2004). Seroprevalence of *Sarcocystis* spp. in cattle and buffaloes from the wet and dry zones of Sri Lanka: A preliminary study, *Journal of Veterinary Medicine*, B 51:89-93.
19. Digana, P M C B, Yapa, W B, **Randeniya, P V** and Ratnasooriya, W D (2004). Roost selection of the short-nosed fruit bat, *Cynopterus* spp. in Sri Lanka, *Journal of Science of the University of Kelaniya, Sri Lanka*, 1:15-21.
20. Ratnasooriya, W D, **Udagama-Randeniya, P V**, Yapa, W B, Digana, P M C B and Dharmasiri, M G (2005). Haematological parameters of three species of wild caught microchiropteran bats, *Miniopterus chreibersii*, *Taphozous melanopogon* and *Hipposideros lankadiva* in Sri Lanka, *Journal of Science of the University of Kelaniya, Sri Lanka*, 2:27-40.
21. Sathananthan A H, Rathnasooriya W D, Silva A de and **Randeniya P** (2006) Rediscovering Boveri's centrosome in *Ascaris* (1888): its impact on human fertility and development, *Reproductive Biomedicine Online*; www.rbmonline.com/Artical/1989: 12 (2): 254-270.
22. Wickramarachchi W T A, Premaratne P H, Perera K L R L, Bandara S, Kocken C H M, Thomas A W, Handunetti S M and **Udagama-Randeniya P V** (2006). Natural human antibody responses to *Plasmodium vivax* Apical Membrane Antigen 1 under low transmission and unstable malaria conditions in Sri Lanka. *Infection and Immunity* 74 (1): 798-801.
23. Merino E F, Fernandez-Becerra C, Durham A M, Ferreira J E, Tumilasci V F, deArc-Neves J, da Silva-Nunes M, Ferreira M U, Wickramarachchi T, **Udagama-Randeniya P**, Handunetti S M and del Portillo HA (2006). Multi-character population study of the *vir* superfamily of *Plasmodium vivax*, a major human malaria parasite. *Molecular Biochemical Parasitology*, 149(1):10-16.
24. Wickramarachchi, W T A, Illeperuma, I, Perera, K L R L, Bandara, S, Longacre, S, Handunetti, S M and **Udagama-Randeniya, P V** (2007). Comparison of naturally acquired antibody responses against the C-terminal processing products of *Plasmodium vivax* Merozoite Surface Protein 1 under low transmission and unstable malaria conditions in Sri Lanka. *International Journal of Parasitology*, 37:199-208.
25. Gunasekera, A M, Wickramarachchi, LT, Neafsey, DE, Ganguli, I, Perera, L, Premaratne, P H, Hartl, D, Handunetti, S M, **Udagama-Randeniya, P V** and Wirth, D F (2007). Genetic diversity at the

- Plasmodium vivax* Apical Membrane Antigen-1 (PvAMA-1) locus in a Sri Lankan population. *Molecular Biology and Evolution*, 24 (4): 939-947.
26. Ratnasooriya, W D, Jayasinghe, C D and **Udagama-Randeniya, P V** (2007). An investigation of *in vivo* antimalarial activity of black tea brew of *Camellia sinensis* in mice. *Sri Lanka J. Tea Sc*, 72 (01): 9-15
 27. Dissanayake, U, Dias, S, Polson, H, Longacre, S and **Udagama-Randeniya, P V** (2008). Immunology of *Plasmodium vivax* Merozoite Surface Protein-4 (PvMSP-4) in Sri Lanka: A preliminary study. *Ceylon Journal of Science (Biol.Sci)* issue dedicated to late DR F P Amerasinghe: 97-105
 28. Jayasinghe, Chanika D, **Udagama-Randeniya, Preethi V** and Ratnasooriya, W D (2008). *In vivo* anti malarial activity of aqueous root extract of *Barringtonia acutangula* in mice. *Pharmacognosy Magazine*:4 (15):S1-S8.
 29. Rajapakse G K, De Silva V S, Goonathilaka S, Athukorala A, Wijayarathna S W and **Udagama-Randeniya P V** (2009). Immunological, socioeconomic and disease characterization aspects of a population of rheumatoid arthritis patients in Sri Lanka, *Indian Journal of Rheumatology*, 4(1):3-10.
 30. Fernando S P and **Udagama-Randeniya P V** (2009). Ecto and intestinal parasites of some selected reptile species in the national zoological gardens in Sri Lanka. *Journal of Zoo and Wildlife Medicine*, 40(2):272-275.
 31. Seneviratne S S, Fernando C H and **Udagama-Randeniya P V** (2009). Degrees of host specificity of cave dwelling bats in a tropical island: a natural experiment. *International Journal of Parasitology*, 39:995-1002.
 32. Ratnaweera P, Wijesinghe M R and **Udagama-Randeniya PV** (2010). Parasitic associations of a threatened, endemic rainforest rodent *Mus mayoripocoki* (Sri Lanka spiny rat). *Threatened Taxa*, 2(6):901-907.
 33. Wickramarachchi T, Premaratne P H, Dias S, Handunnetti S M and **Udagama-Randeniya PV** (2010). Genetic complexity of *Plasmodium vivax* infections in Sri Lanka reflected at the Merozoite Surface Protein-3a locus, *Annals of tropical Medicine and Parasitology*, 104 (2):95-108.
 34. Dias S, Longacre S, Escalante A and **Udagama PV** (2011). Genetic Diversity and Recombination at the C-terminal Merozoite Surface Protein-1 (Pvmsp-142) gene of *Plasmodium vivax* in Sri Lanka. *Infection, Genetics and Evolution*, 11: 145–156.
 35. Premaratne P H, Aravinda B R, Escalante A A and **Udagama P V** (2011). Genetic diversity of *Plasmodium vivax* Duffy Binding Protein II (PvDBPII) under unstable transmission and low intensity malaria in Sri Lanka. *Infection, Genetics and Evolution*, 11: 1327–1339.
 36. Dias S, Somaratne M, Manamperi A, Escalante A, Gunasekera A M and **Udagama PV** (2011). Evaluation of the genetic diversity of domain II of *Plasmodium vivax* Apical Membrane Antigen 1 (PvAMA-1) and the ensuing strain-specific immune responses in patients from Sri Lanka. *Vaccine*, 29:7491– 7504.
 37. Kodippili K S W, Ratnasooriya W D, Premakumara G A S, **Udagama, P V** (2011). An investigation of the antimalarial activity of *Artemisia vulgaris* leaf extract in a rodent malaria model. *International Journal of Green Pharmacy*, 5: 276-81.
 38. Harvey M, Ratnaweera P B, **Udagama P V** and Wijesinghe M. (2012). A new species of the pseudoscorpion genus *Megachernes* (Pseudoscorpiones, Chernetidae) associated with a threatened Sri Lankan rainforest rodent, with a review of host associations in *Megachernes*. *Journal of Natural History*, 46(41-42): 2519-2535.
 39. Gammulle A S, Ratnasooriya W D, Jayakody JRAC, Kanatiwela C, Fernando C and **Udagama PV** (2012). Thrombocytosis and anti-inflammatory properties, and toxicological evaluation of *Carica papaya* mature leaf concentrate in a murine model. *Online International Journal of Medicinal Plants Research*, 1(2): 21-30.
 40. **Udagama-Randeniya P V**, Fernando T S P and Fernando H K A V A K (2012). *Bothridium pithonis* (Blainville, 1824) from Rock Python (*Python morulus*) of National Zoological Garden of Sri Lanka. *World Journal of Zoology*, 7(3):200-202.
 41. Senanayake M P, Infaq M L M, Adikaram S G S and **Udagama P V** (2013). Ocular and subcutaneous dirofilariasis in a Sri Lankan infant: an environmental hazard caused by dogs and mosquitoes. *Paediatrics and International Child Health*, 33(2): 111-112.
 42. Dias S, Wickramarachchi T, Sahabandu E, Escalante A and **Udagama PV** (2013). Population genetic structure of the *Plasmodium vivax* circumsporozoite protein (Pvcsp) in Sri Lanka. *Gene*, 518:381-387.
 43. Bamunuarachchi B A G S, Ratnasooriya W D, Premakumara G A S, **Udagama P V** (2013). Anti-malarial properties of *Artemisia vulgaris* L ethanolic leaf extract in a *Plasmodium berghei*

- murine malaria model. *Journal of Vector Borne Diseases*. 50:278-284
44. Priyadarshani S, Madushani W A N, Wickremasinghe DD and **Udagama P V** (2013). Heavy metal pollution and burden of aquatic animal health: A pilot study from an urban wetland in Sri Lanka. Full paper presented at the *First Young Water Professionals Symposium*, Sri Lanka Jalani & International Water Management Institute, Colombo. 146-153.
 45. Jayawardhana N D C K K, Jayasinghe C D, Vivehananthan K and **Udagama P V** (2014). Immunostimulatory activity of Sri Lankan wild type *Carica papaya L.* mature leaf concentrate in a rat model. Full paper in Proceedings of the 13th Agricultural Research Symposium, Faculty of Agriculture and Plantation Management, Wayamba University of Sri Lanka. 195-199.
 46. Amarasekara S, Wijerathna S, Fernando C, **Udagama P V** (2014). Cost-effective diagnosis of male oxidative stress using the nitroblue tetrazolium test: useful application for the developing world. *Andrologia*, 46:73-79. (doi:10.1111/and.12043).
 47. Amarasinghe A, Kathriarachchi H and **Udagama P** (2014). Conserved Regions of *Plasmodium vivax* Potential Vaccine Candidate Antigens in Sri Lanka: Consensus *In silico* Analysis of Prospective Conformational Epitope Regions. *Asian Pacific Journal of Tropical Medicine*. 7(10): 832-840.
 48. Bamunuarachchi B A G S, Ratnasooriya W D, Premakumara G A S, and **Udagama P V** (2014). *Artemisia vulgaris L.* ethanolic leaf extract reverse thrombocytopenia/ thrombocytosis and avert end stage disease of experimental *Plasmodium berghei* murine malaria. *Journal of Vector Borne Diseases*. 51: 1-8.
 49. Obesekera M P, Amarasekara D S, Wijerathna S, Fernando C and **Udagama P V** (2014). Macrophage migratory inhibitory factor in seminal fluid as a marker of male factor infertility: A pilot study in Sri Lankan men. *Journal of the National Science Foundation of Sri Lanka*, 42 (2): 147-152
DOI: <http://dx.doi.org/10.4038/jnsfsr.v42i2.6057>
 50. Priyadarshani S, Madushani W A N, Jayawardhana U A, Wickremasinghe D D and **Udagama P V** (2015). Heavy metal mediated immunomodulation of the Indian green frog, *Euphlyctis hexadactylus* (Anura: Ranidae) in urban wetlands. *Ecotoxicology and Environmental Safety*, 116: 140-149.
 51. Gunasekera S K, Perera K A, Fernando C and **Udagama P V** (2015). A shifting paradigm in the aetiology of oral and pharyngeal cancer in Sri Lanka: a case-control study providing serologic evidence for the role of oncogenic HPV types 16 and 18. *Infectious Agents and Cancer* 10:12 – 21. DOI 10.1186/s13027-015-0007-z
 52. Kanatiwela-de Silva C, Damayanthi M, de Silva R, Dickinson M, de Silva N and **Udagama P** (2015). Molecular and scanning electron microscopic proof of phytoplasma associated with areca palm yellow leaf disease in Sri Lanka. *Plant Disease*, 99(11): 1641.
 53. Jayawardana U A, Ratnasooriya W D, Wickramasinghe D D, and **Udagama, P V** (2016). Heavy metal mediated innate immune responses of the Indian green frog, *Euphlyctis hexadactylus* (Anura: Ranidae): Cellular profiles and associated Th1 skewed cytokine response. *Science of The Total Environment*, 566-567:1194-204. doi: 10.1016/j.scitotenv.2016.05.171. Epub 2016 Jun 19.
 54. Abeysinghe S, Abeysinghe P D, Kanatiwela-de Silva C, **Udagama P**, Warawichanee K, Aljafar N and Dickinson M. (2016). Refinement of the taxonomic structure of 16SrXI and 16SrXIV phytoplasmas of gramineous plants using multilocus sequence typing. *Plant Disease*, 100(10), 2001-2010.
 55. Udalamaththa V L, Jayasinghe C D, and **Udagama P V** (2016). Potential role of herbal remedies in stem cell therapy: proliferation and differentiation of human mesenchymal stromal cells. *Stem Cell Research & Therapy*, 7:110-117. (DOI: 10.1186/s13287-016-0366-4; URL: <http://stemcellres.com/content/7/1/110>)
 56. Goonawardhana N D S, Jayasekera G S K W, Elanahai V, **Udagama P V** and Fernandopulle N D (2017). Population genetic data for ten miniSTR loci in the Sri Lankan population. *International Journal of Legal Medicine*, 131(4): 969-970, (DOI: 10.110/s00414-016-1512-3)
 57. Balasooriya E, Jayasinghe C D, Jayawardana U A, Ruwanthika R W D, de Silva R M, and **Udagama P V** (2017). Honey Mediated Green Synthesis of Nanoparticles: New Era of Safe Nanotechnology. *Journal of Nanomaterials*, Article ID 5919836, 10 pages. doi:10.1155/2017/5919836.
 58. Jayasinghe C D, Gunasekera D S, De Silva N, Jayawardana K K and **Udagama P V** (2017). Mature leaf concentrate of Sri Lankan wild type *Carica papaya Linn.* modulates nonfunctional and functional immune responses of rats. *BMC Complementary and Alternative Medicine*, 17:230-244 DOI 10.1186/s12906-017-1742-z
 59. Jayawardana U A, Angunawela P, Wickramasinghe D D, Ratnasooriya W D, and **Udagama, P V** (2017). Heavy metal induced toxicity in the Indian green frog: Biochemical and

- histopathological alterations. *Environmental Toxicology and Chemistry*, 9999: 1-13. DOI: 10.1002/etc.3848
60. Wijesinghe H, Galappathy P, De Silva R, Seneviratne S L, Sarvanamuttu U G, **Udagama P**, Hart M, Kelleher P, Senerath U, Fernandopulle R, Weerasekara L and Wijayarathne L (2017). Leflunomide is equally efficacious and safe compared to low dose rituximab in refractory rheumatoid arthritis given in combination with methotrexate: Results from a randomized double blind controlled clinical trial. *BMC Musculoskeletal Disorders*, 18:310-320. DOI: 10.1186/s12891-017-1673-3.
 61. Manatunga D C, de Silva R M, de Silva K M N, Malavige G N, Wijeratne D T, Williams G R, Jayasinghe C D and **Udagama P V** (2018). Effective delivery of hydrophobic drugs to breast and liver cancer cells using a hybrid inorganic nanocarrier: A detailed investigation using cytotoxicity assays, fluorescence imaging and flow cytometry. *European Journal of Pharmaceutics and Biopharmaceutics*, 128: 18-26. <https://doi.org/10.1016/j.ejpb.2018.04.001>
 62. Rathnayake D, Chang T and **Udagama P** (2019). Selected serum cytokines and nitric oxide as potential multi-marker biosignature panels for Parkinson disease of varying durations: A case-control study. *BMC Neurology*, 19:56 - 66 ; <https://doi.org/10.1186/s12883-019-1286-6>
(Won the best publication by a physician in 2019 award at the Annual Conference 2020 of the Ceylon College of Physicians)
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National Patents

- **Udagama PV**, Udalamaththa V, Samaratunge U, Jayasinghe L and Wijeratne S (2021). *A Herbal Distillate from Ficus Benghalensis Plant parts, its Preparation Method and Uses Thereof*, Sri Lanka (SL/P/20538)
- **Udagama PV**, Samaratunge U, Seneviratene J, and Ratnayake PMS (2022). Proliferation enhancing and skin regeneration potential of a polyherbal distillate of *Mallotus repandus* and *Vernonia zeylanica* on skin derived dermal fibroblast cells. (LK/P/21765)
[This invention was selected by the World Intellectual Property Office (WIPO) under their Enabling Innovation Environment (EIE) project for Sri Lanka, where the inventors and the TTO of the Faculty of Science will be mentored by Dr. Sarah Macnaughton, Oxentia, University of Oxford, UK; A wound healing cream as a product was launched by Herbal Technologies Ltd. on February 27, 2023]
- **Udagama PV**, Udalamaththa V, and Jayasinghe L (2022). A non-ionic surfactant-protein complex derived from a fraction of size exclusion chromatography of mature leaf juice of Sri Lankan wild type *Carica papaya* augment proliferation of human mesenchymal stem cells (LK/P/21537)
- **Udagama PV**, Udalamaththa V, Samaratunge U, Jayasinghe L (2022). Enhancing proliferation potential of human haematopoietic stem cells by a polyherbal distillate of *Mallotus repandus* and *Vernonia zeylanica* (LK/P/21637)
 - i) Title of invention: *Carica papaya* leaves for anti-adipogenic and anti-obesity activity. **Udagama PV**, Udalamaththa V, Samaratunge U, Jayasinghe L (LK/P/20970; date filed February 6, 2020) pending
 - ii) Title of invention: Polyherbal mixture of *Ficus hispida* and *Cassia alata* (FCD) for melanogenesis of human melanocyte cells sans UV exposure. **Udagama PV**, Samaratunge U, Seneviratene J, and Ratnayake PMS. (LK/P/22221; date filed March 24, 2022) pending

Citation Index

I have to date published 78 research papers, a majority in international peer reviewed journals, three international book chapters, 254 scientific communications presented at local (197) and international (57) conferences and awarded four national patents.

With 1991 citations, I currently have an h-index of 29 with an i10-index of 49.

Consultancies

- Consultant to the Nawaloka Metropolis Molecular Diagnostics Laboratory since December, 2010. Advised and guided to establish the molecular diagnostics lab and supervised its operations until March 31, 2017. (in partnership with Metropolis Labs, India)
- Consultant to the Nawaloka Green Cross Molecular Diagnostics Laboratory April, 2017 – June, 2020. Establishment of molecular diagnostics lab to global standards and supervision of technical operations. (in partnership with Green Cross Labs, South Korea)

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