CURRICULUM VITAE

NADIRA KARUNAWEERA (MBBS, PhD, FNASSL,FTWAS, MAAAS, FASTMH (Intl))

Personal Information
Surname: KARUNAWEERA
Forenames: Nadira Dharshani
Nationality: Sri Lankan
Date & Place of Birth: September 1, 1961, Colombo, Sri Lanka
Sex: Female

Orcid ID: orcid.org/0000-0003-3985-1817
Google Scholar Citations:
https://scholar.google.com/citations?user=z7vzisUAAAAJ&hl=en

Highlights of Achievements

- Honorary Visiting Fellow, Harvard University, USA
- Elected Fellow of the National Academy of Sciences of Sri Lanka
- Elected Fellow of The World Academy of Sciences (TWAS) for the advancement of science in developing countries.
- Elected Member of American Academy of Arts and Sciences 2019. *First Sri Lankan elected.*
- Elected Distinguished International Fellow of American Society of Tropical Medicine and Hygiene (2020) *First Sri Lankan elected.*
- Founder President, National Chapter of the Organization for Women in Science for the Developing World (OWSD)
- President, Sri Lanka College of Microbiologists 2020-2021
- Member, Steering Committee of Women in Science and Engineering in Asia-Pacific (WISE), Association of Academies in South Asia (and Pacific)
- Consultant/Advisor Strategic Research Steering Committee, World Health Organization
- Board Member of the Governance Council of Genomic Epidemiology of Malaria Network, University of Oxford, UK
- Board Member, Inter-Academy Partnership for Policy in Research, The World Academy of Sciences, Trieste, Italy
- Research Grant Awardee of National Institute of Health, USA; Wellcome Trust, UK; World Health Organization, Switzerland; University of Oxford, UK
- Fellowship Awardee of Harvard university; Fulbright Commission; European Union; World Health Organization
- Recipient of Presidential Awards for Research; Zonta Woman of the Year Award

Education

1986 M.B.,B.S. (Bachelor of Medicine & Bachelor of Surgery) (University of Colombo, Sri Lanka)
1993 Ph.D. (University of Colombo, Sri Lanka), Title of the thesis: 'Study of Clinical Disease and Immunity in Human Malaria'.
2003 Certificate holder – 'Accreditation of Senior Teachers in Higher Education', Staff Development Centre, University of Colombo.

Professional Experience

Present Position(s):

- Senior Professor and Chair, Department of Parasitology, Faculty of Medicine, University of Colombo, Sri Lanka.
- Visiting Scientist, Department of Immunology and Infectious Diseases, School of Public Health, Harvard University, Boston, U.S.A.
- Board member, Inter-Academy Partnership for Research (IAP-Policy), Global network of Science Academies.
- Board member, Women in Science and Engineering (WISE), Association of Academies and Societies of Sciences in Asia (AASSA)

Summary of key accomplishments

Nadira is the Chair and Senior Professor of Parasitology at the Faculty of Medicine, University of Colombo, Sri Lanka and an honorary Visiting Fellow at the School of Public Health, Harvard University, USA. Trained as a Medical Parasitologist she has had extensive teaching and research experience in tropical diseases, with special emphases on vector-borne diseases.

She is an elected Fellow of the National Academy of Sciences of Sri Lanka, elected Fellow of The World Academy of Sciences (TWAS) for the advancement of science in developing countries, the first Sri Lankan elected as an honorary member of the American Academy of Arts and Sciences and the first Sri Lankan elected as a Distinguished International Fellow of the American Society of Tropical Medicine and Hygiene.

She remains as a board member of several policy making bodies that includes the Inter-Academy Partnership of The World Academy of Sciences, Governance Council of the Genomic Epidemiology of Malaria network, University of Oxford, United Kingdom and has served as a Consultant/advisor to the Strategic Research Steering Committee on Pathogenesis and Functional Genomics, World Health Organization, Geneva for over a decade.

She has been a recipient of several competitive research grant awards, both international and local. Internationally recognized awards for her scientific accomplishments include Tropical Medicine Centre Award U01AI136033 (2017-2022); R01AI099602 (2012-2017); R03 TW007966 (2007-2012) NIAID, NIH, USA; Global Challenge Award for malaria (2006-2009) and Research Development Award, Wellcome Trust, UK (1997-2000).

Fellowship awards she has received include Harvard University's Senior Research Scholar Award, Radcliffe Institute for Advanced Study (2005-2006); Fulbright Advanced Research and Lecturing Award (2005); Fellowship Award, Commission of the European Communities, Belgium (1994) and Fellowship award, T.D.R., World Health Organization, Geneva, Switzerland (1993). Local awards bestowed on her include Annual Presidential Awards for excellence in research (awarded on successive years from 2000 onwards), National Apex Award for Professional Excellence and Zonta Woman of the Year Award (2009).

She spearheaded the establishment of the Sri Lanka National Chapter of Organization for Women in Science for the Developing World (OWSD) and is the Founder President of that organization (since 2018) and is the current President of the Sri Lanka College of Microbiologists (2020-2021),

She is considered as an authority in malaria research that encompasses wide ranging fields including pathogenesis, epidemiology, immunity and genetic diversity and has been instrumental in generating novel information, which aided the process of policy making related to control and elimination of this disease from Sri Lanka. She continues to function as a team leader in multidisciplinary research studies in human parasitic infections and is responsible for pioneering work in the field of leishmaniasis, a newly established disease in Sri Lanka, with setting up of the first leishmaniasis diagnostic, training and research laboratory in the country. The studies led by her and the findings of her team continue to influence national health policy that includes recognition of leishmaniasis as a public health problem in Sri Lanka, leading to its inclusion as a 'notifiable disease' in the health sector (first step towards its control through use of systematic methods), recognition of new treatment options for leishmaniasis to improve efficacy and patient safety and recognition of insecticide resistance in sand flies as a challenge for the control program.

She has provided academic and research supervision and guidance to a large number of undergraduate and post-graduate students that include MPhil and PhD-level scientists and has been in the University system for over 30 years (University of Colombo, Sri Lanka; University of Edinburgh, UK; Harvard University, USA) with extensive academic, research and administrative experiences.

As an expert in tropical diseases she continues to serve on many national and international scientific review boards, consultative committees and editorial boards sharing her expertise in an honorary capacity. She has organized national and international conferences, workshops and capacity building programs and led the team that established the first-ever 'Research Promotion and Facilitation Centre' at the Faculty of Medicine, University of Colombo in 2013 that continues to provide training and promotes capacity building of young local scientists. She has published widely with a Google Scholar h-index of 32; i-10 index of 71 and has authored over 100 peer-reviewed journal articles with over 3500 citations, large number of abstracts of presentations made at conferences, several book chapters and shares the ownership of 2 patents.

Career Positions and Employment:

2012 January to date: Senior Professor and Chair, Department of Parasitology, Faculty of Medicine, University of Colombo

2014 August to October : Acting Dean, Faculty of Medicine, University of Colombo.

2004 January to date: Chair Professor, Department of Parasitology, Faculty of Medicine, University of Colombo.

2000 September to 2017: Head of Department, Department of Parasitology, Faculty of Medicine, University of Colombo (leaving out the period 2005-2008 when I was on sabbatical leave).

2006 August to date: Visiting Scientist (honorary), Department of Immunology and Infectious Diseases, Harvard University, Boston, U.S.A. https://www.hsph.harvard.edu/nadira-karunaweera/

2019 November to 2020 May: Visiting Scientist (honorary), National Institute of Health, USA.

2005 August to 2006 August: Senior Research Fellow, Radcliffe Institute for Advanced Study, Harvard University, Cambridge, U.S.A. https://www.radcliffe.harvard.edu/people/nadira-dharshani-karunaweera

2004 September to 2005 : Fulbright Fellow, Harvard University, USA.

2013 to 2015 : Member (Honorary), Governance Council, Sri Lanka Accreditation Board for Conformity Assessment (2013-2015).

2010 September to date : Member (Honorary) of the Governance Council, Genomic Epidemiology of Malaria Project (MalariaGEN), University of Oxford, United Kingdom. https://www.malariagen.net/community/ethics-governance/gc

1996 to 2007 Consultant/advisor (Honorary), Strategic Research Steering Committee on Pathogenesis and Functional Genomics, World Health Organization, Geneva.

1995 July to 2004 January: Senior Lecturer, Department of Parasitology, Faculty of Medicine, Colombo.

1993 July to June 1995: Post-doctoral Fellow, University of Edinburgh, United Kingdom.

1989 March to June 1993: Lecturer, Department of Parasitology, Faculty of Medicine, Colombo.

1986 October to February 1989: Medical Officer, Colombo Group of Hospitals, Ministry of Health, Sri Lanka.

Scholarships, Fellowships and Honours:

- Elected Fellow, National Academy of Sciences, Sri Lanka (FNAS SL) (2011)
- Elected Fellow of The World Academy of Sciences (TWAS) for the advancement of science in developing countries.
- Elected Distinguished International Fellow, American Society of Tropical Medicine and Hygiene (2020) https://www.astmh.org/awards-fellowships-medals/awards-and-honors/honorary-members#:~:text=Fellow%20of%20ASTMH)-,ASTMH%20Distinguished%20International%20Fellow%20(formerly%20known%20as%20Honorary%20International%20Fellow,known%20as%20%22Honorary%20Member.%22
- Elected Member, American Academy of Arts and Sciences (2019) https://www.amacad.org/directory?search_api_fulltext=karunaweera&field_class_section=All&field_class_section_1=All&field_deceased=1&sort_bef_combine=search_api_relevance_DESC

- Senior Research Scholar, Radcliffe Institute for Advanced Study, Harvard University, U.S.A. (2005/2006) https://www.radcliffe.harvard.edu/people/nadira-dharshani-karunaweera
- Fulbright Advanced Research and Lecturing Award, U.S.A. (2005)
- Post-doctoral Fellowship, Commission of the European Communities, June, 1994 to May 1995
- Post-doctoral Fellowship, Research Training Grant, T.D.R., World Health Organization, June 1993 to May, 1994.

Academic Distinctions and Awards:

Contribution to scientific research has been acknowledged by several awards, including:

- Advanced Research Fellow Award (2005/2006), Radcliffe Institute for Advanced Studies, Harvard University, U.S.A.
- Fulbright Advanced Research and Lecturing Award (2005), Fulbright Commission, U.S.A.
- National Apex Award for Professional Excellence (Health and Medical Sciences), Organization of Professional Associations of Sri Lanka (2013)
- Research Award (Health Sciences), National Science Foundation, Sri Lanka. (2008)
- 'Zonta Woman of Achievement Award' for Outstanding Recognition, Zonta Club of Colombo (2009)
- Presidential Awards for Science, Sri Lanka (2000, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012, 2014, 2015, 2016, 2017)
- Merit Award, National Research Council for Scientific Publication (2011)
- Six Awards in Recognition of Excellence in Research, University of Colombo (2008, 2004, 2002, 2000/2001) and Senate Awards 2016 and 2017
- K. Rajasuriya Award in Tropical Medicine (2008), Sri Lanka Medical Association.
- General Research Award (2007), Sri Lanka Association for the Advancement of Sciences.
- Scholarship Award (September 2007), Royal Society of Tropical Medicine and Hygiene, United Kingdom.
- Professor Rajasuriya Award for Tropical Medicine, Sri Lanka Medical Association (2003)
- Wilson Peiris Prize, Sri Lanka Medical Association (2004).

Competitive Research Grants awarded for scientific research:

Total funds awarded: LKR 553 million

As Principal Investigator:

2017-2022 Tropical Medicine Research Centre Award, National Institute of Allergy and Infectious Diseases, National Institute of Health, USA. Ref. No: U01AI136033
Title: Epidemiology and transmission of Leishmania donovani infections in Sri Lanka and Bhutan
Amount: USD 1,956,524 (LKR 354 million)

2012-2017 Research Award (RO1), National Institute of Allergy and Infectious Diseases, National Institute of Health, USA. Ref. No: R01AI099602
Title: Study of cutaneous leishmaniasis in Sri Lanka caused by *L.donovani*.
Amount: USD 625,000.00 (LKR 113 million)

2012-2013 Research Award (2012-2013), Liverpool School of Tropical Medicine, United Kingdom.
Title: A pilot study to incorporate assessment for soil-transmitted helminths (STH) into transmission assessment surveys for lymphatic filariasis in Gampaha district, Colombo, Sri Lanka.
Amount: USD 10,068.00 (LKR 1.8 million)

2007-2012 Collaborative Research Award, National Institute of Health, United States of America
Title: Genetic diversity of *P.vivax* malaria. Ref. No: R03 TW007966
Amount: USD 100,000.00 (LKR 18 million)

2011-2014 PhD Supervision Grant, University of Colombo – AP/3/2011/CG/01
Title: Leishmaniasis in Sri Lanka
Amount: SL Rs. 3,000,000.00

2010-2013 National Research Council Award, Grant No. 09-02
Title: Microsatellite diversity of malaria parasite isolates in Sri Lanka
Amount: SL Rs. 4,138,840.00

2006-2009 Global Challenge Award, University of Oxford, United Kingdom
Title: Study of host genetic polymorphisms and immunity in malaria
Amount: USD 110,479.00 (LKR 20 million)

2003-2004 Research Award, National Science Foundation – RG/SIDA/2003/M/01
Title: Clinical and Epidemiological Study on Leishmaniasis in Sri Lanka
Amount: LKR 455,000.00

2002-2003 Research Award, National Science Foundation – RG/SIDA/2002/M/01
Title: Species and strain identification of *Leishmania* parasites causing cutaneous leishmaniasis in Sri Lanka.
Amount: LKR 333,000.00

2001-2002 Research Award, National Science Foundation – RG/SIDA/2001/M/09
Title: Field evaluation of RDT for diagnosis of *P.vivax* and *P.falciparum* malaria infections. Amount: SL Amount: LKR 142,000.00

2005-2006 Research Award, National Science Foundation – RG/2005/HS/07
Title: Study of sandflies in a selected area of Sri Lanka
Amount: LKR 105,000.00

2005-2006 Research Award, National Science Foundation – RG/2005/HS/08
Title: Efficacy and factors affecting drug compliance in the mass drug administration program against lymphatic filariasis in a selected area in Sri Lanka
Amount: LKR 320,300.00

2002-2004 Collaborative Research Award, T.D.R., W.H.O. ID no: A20294
Title: Characterization of host and parasite factors that induce disease in *P.vivax* malaria
Amount: USD 70,000.00 (LKR 12.6 million)

1997-2000 Research Development Award in Tropical Medicine, The Wellcome Trust, United Kingdom
Title: Studies on Mediators and Mechanisms in Clinical Disease in *Plasmodium vivax* infections
Amount: GBP 64,360.00 (LKR 15 million)

Co-Principal Investigator:

2020-2024 National Institute of Health Research, United Kingdom. Ref. ECLIPSE
Title: Empowering Cutaneous Leishmaniasis patients: an Intervention Programme to reduce time to treatment and Stigma via community Education. Multi-country award.
Amount: GBP 4,576,819.00 (LKR 1,102 million)

2019-2021 CRDF Global, National Institute of Health. Ref. No. 28862
Title: Interdisciplinary Study of Factors Related to Treatment Outcome of Sri Lankan Cutaneous Leishmaniasis" was selected to receive U.S.-Japan Cooperative Medical Sciences Program Collaborative Award, 2019

Amount: USD 45,000 (LKR 8.1 million)

2011-2013 Collaborative Research Award, National Science Foundation- RG/2011/HS/13
Title: Development of Serological assay for the diagnosis of leishmaniasis in Sri Lanka
Amount: LKR 990,000.00

2011-2013 Collaborative Research Award, National Science Foundation (2011-2013) - RG/2011/HS/09
Title: Screening for G6PD enzyme deficiency among a selected population within the districts of Kurunegala and Anuradhapura.
Amount: LKR 985,700.00

Recipient of Grant Awards to Facilitate Workshops

Grant award made by National Science Foundation, Sri Lanka. Amount: SL Rs. 388,000.00. Workshop on 'Leadership and Career Development for Women in Science, Technology and Education'. Held on 23rd May 2017 at the Hilton Residencies Hotel, Colombo. Number of participants: 60.

Grant award by International Network for Availability of Sciences (INASP) and AuthorAid Foundation, UK. Amount: 1700 GBP. Train the Trainer Workshop on 'Gender Mainstreaming in Higher Education' held on 30th March 2018 at the Hilton Residences Hotel, Colombo. Number of participants: 12.

Academic Distinctions and Awards (continued):

- Travel Award, NIAID, National Institute of Health, USA (2013) to attend the 'Fundamentals of Data Management Training', NIAID, National Institute of Health. Durham, North Carolina, USA. 29th July to 2nd August 2013.
- Travel Award, Association of Asian Academies of Sciences (2013) to attend the 'Joint workshop on Women in Science Education and Research, Second Summit of the South Asian Science Academies, Indian National Science Academy, New Delhi. 24th to 27th September 2013.
- Travel Award, National Science Foundation. To attend the 'Fifth World Congress on Leishmaniasis'. Porto de Galinhas, Pernambuco, Brazil. 13th to 17th May 2013.
- 3rd Prize at the Annual Academic Sessions, Sri Lanka College of Microbiologists, 2001 for research studies on 'Seasonal variation of Ascaris infection in the estate sector'. GSA Gunewardene, ND Karunaweera, MM Ismail.
- 3rd Prize at the Annual Academic Sessions, Sri Lanka College of Microbiologists, 2002 for research studies on 'Evaluation of rapid whole blood immunochromatographic Pf/Pv assay for the diagnosis of P.falciparum and P.vivax malaria'. D Fernando, P Fernando, ND Karuanweera.
- 2nd Prize at the Scientific Sessions, Faculty of Medicine, Colombo, 2000 for the research paper on 'Factors which mediate clinical disease in P.vivax malaria'. LD Wanasekera, R Carter, KN Mendis, ND Karunaweera.
- 3rd Prize at the Scientific Sessions, Faculty of Medicine, Colombo, 2002 for the research paper on 'The association between nutritional status and P.vivax infection in childhood'. STC Mahawithanage, R Wichramasinghe, ND Karunaweera.
- 2nd Prize at the Annual Academic Sessions, Sri Lanka College of Microbiologists, 2003 for research studies on 'A study on cutaneous leishmaniasis in Sri Lanka'. HVYD Siriwardana, RL Ihalamulla, F Pratlong, JP Dedet, ND Karuanweera.
- 2nd Prize for best research paper awarded at the Annual Academic Sessions, Sri Lanka College of Microbiologists, 2004, 'Seasonal variation in the incidence of soil-transmitted helminth infections in two low country tea plantations'. GSA Gunawardena, ND Karunaweera,

MM Ismail. Abstract no.OP-5

- Prize for the best poster awarded at the Annual Academic Sessions Sri Lanka Collehge of Microbiologists, 2004. 'Evaluation of laboratory techniques used for the diagnosis of cutaneous leishmaniasis'. WSR Perera, RPAS Rajapakshe, RL Ihalamulla, S Jayasinghe, HVYD Siriwardana, ND Karunaweera. Abstract no. PP-2.

Memberships and Honorary Services in Expert Committees, Editorial and Review Boards

- President, Sri Lanka College of Microbiologists (2020/2021) https://slmicrobiology.lk/president/
- Vice President, National Academy of Sciences of Sri Lanka (NASSL) (2020-2022); General Secretary, NASSL (2014-2019), Foreign Secretary, NASSL (2013-2014)
- Deputy Editor, PLOS Neglected Tropical Diseases 2020 onwards https://journals.plos.org/plosntds/s/editorial-board#loc-deputy-editors
- Member of the Scientific Review Board, National Institute of Health, National Institute of Allergy and Infectious Diseases, Bethesda, USA. 2016 onwards.
- Member, Governance Committee, Genomic Epidemiology of Malaria Project (MalariaGEN), University of Oxford, United Kingdom (2010 onwards). https://www.malariagen.net/community/ethics-governance/gc
- Member of International Membership Committee, American Society of Tropical Medicine and Hygiene (ASTMH): 2019-2022
- Member of Editorial Board, Parasitology, Cambridge University Press, UK https://www.cambridge.org/core/journals/parasitology/information/editorial-board 2017 onwards
- Deputy Editor, PLOS Neglected Tropical Diseases Journal. https://journals.plos.org/plosntds/s/editorial-board
- Guest Editor, Special Issue on leishmaniasis, Volume 145: Special Issue 4. 2018. Parasitology, Cambridge University Press, UK https://www.cambridge.org/core/journals/parasitology/issue/319A144C663F247204696E61877D6B6E
- Member of the international jury of the Carlos J. Finlay UNESCO Prize for Microbiology (2017)
- Member of the Research Board, Inter-academy Partnership, Association of Academies and Societies of Sciences of Asia (2018 onwards).
- Founder President, Sri Lanka National Chapter for Organization for Women in Science for the Developing World (2018-2020)
- Chair, Health Sciences Committee, National Science Foundation. (2019-2022).
- Member, Governing Council, Sri Lanka Accreditation Board for Conformity Assessment (2013-2015).
- Member of the Women in Science and Engineering Committee, Association of Academies and Societies of Sciences in Asia (AASSA) from 2015 onwards http://aassa.asia/about/special_committee.php
- Member of International Advisory Board, International Congress of Parasitology 2018, Daegu, Korea, 19-24 August 2018.
- Person-in-Charge, Research Promotion and Facilitation Centre (RPFC), Faculty of Medicine, Colombo (since 2014-2017) and Head of Advisory Committee to RPFC from 2017 onwards.
- Coordinator, Higher Education for the Twentieth Century (HETC) Project (Window 3; Medicine). World bank funded project (2012-2015).
- Member, Expert Committee of Women in Science and Engineering in Asia-Pacific (WISE), Association of Academies in South Asia (and Pacific). 2013 onwards.
- Member, National-level Advisory Committee on Communicable Diseases, Ministry of Health (2012-2018).
- Member of Technical Advisory Group, Elimination of Lymphatic Filariasis, Ministry of Health (2015 onwards).
- Chairperson, General Research Committee, Sri Lanka Association for the Advancement of Science. (2012)
- Member of National Committee on International Partnerships, National Science Foundation, Sri Lanka (2011-2013).
- Member of the Editorial Board, Journal of the National Science Foundation, Sri Lanka (2002-

2005 and 2012-2015.
- Member, Committee on Health Sciences/Medicine, National Science Foundation, Sri Lanka (2002 - 2005, 2008 onwards).
- Member of the Technical Support Group, National Program for Malaria Control in Sri Lanka (2008 onwards).
- Member of Technical Advisory Panel, National Program for Leishmaniasis Control in Sri Lanka (2008 onwards)
- Member, Technical Advisory and Consultative Group, Dengue Vector Control in Sri Lanka, Ministry of Health (2009).
- Member, General Research Committee, Sri Lanka Association for the Advancement of Science. (2011 onwards)
- Member, Technical Consultative group on Parasitological Confirmation of Malaria Diagnosis, World Health Organization, Geneva. Switzerland. (2009).
- Honorary consultant/advisor of the *Strategic Research Steering Committee on Pathogenesis and Functional Genomics*, World Health Organization, Geneva (1996 - 2007).
- Member, Editorial board, Austin Journal of Tropical Medicine. http://austinpublishinggroup.com/tropical-medicine/
- Member, Editorial board, Journal of Tropical Parasitology: http://www.tropicalparasitology.org/, 2010 onwards
- Member, Editorial board, Annals of Tropical Medicine and Public Health, 2010 onwards http://www.atmph.org/editorialboard.asp
- Member of Editorial Board, Research and Reports in Parasitology, www.dovenpress.com. 2011 onwards
- Member of the Editorial Board, Open Tropical Medicine Journal and Reviews (2007 onwards)
- President, Section A, Sri Lanka Association for the Advancement of Science (2002/2003).
- Editor of teaching/learning material, Department of Zoology, Open University of Sri Lanka (2008-2009).
- Editor, Council of the Sri Lanka College of Microbiologists (2000-2003) and (2004/2005).
- Editor, Sri Lanka Association for the Advancement of Science, Section A (1999-2001)
- Member of Research Leaders Forum, National Science and Technology Commission of Sri Lanka (since 2001).
- Reviewer for several local and international journals in Parasitology and Tropical Medicine.
- Member of Reviewer Panel, Research Grant Proposals, National Science Foundation and National Research Council, Sri Lanka 2005 onwards.

Summary of Principal Scientific Contributions:

- Providing leadership for establishment of Research Promotion and Facilitation Center within the Faculty of Medicine, Colombo and Population Health Research Center at the field research station in Kataragama.
- Providing scientific data that enabled the Ministry of Health to initiate a program to develop control strategies against leishmaniasis in Sri Lanka.
- Studies on genetic diversity of malaria parasites that are linked to the malaria elimination program in Sri Lanka (to enable tracking of parasite isolates).
- Demonstration of cytokine-mediated mechanisms of malaria transmission blocking effects during infection.
- Demonstration of the relation between cytokine-mediated anti-parasitic effects and pathogenesis in malaria.
- Demonstration of immunity to mediators of pathogenesis and down-regulation of cytokine production in the state of acquired clinical tolerance to malaria infection.
- Introduction of methods for studying malarial disease and clinical tolerance to disease combining clinical assessment and history with pathophysiological and parasitological measurements. Detailed characterization of patterns of disease and acquired clinical tolerance in an endemic population.
- First successful *in vitro* culture of *Leishmania* parasites in Sri Lanka.
- Demonstration of cutaneous leishmaniasis as an established disease in Sri Lanka.
- Detailed identification of the causative organism (*L.donovani*, MON-37) of cutaneous leishmaniasis in Sri Lanka.
- First study on cutaneous myiasis in Sri Lanka.

Research Interests:

Medical Parasitology
Mainly in the fields of:
Clinical Disease, Pathogenesis, Immunology and Genetic Diversity (host and parasite) of Human Malaria
Human Leishmaniases
Helminthiases
Entomology

Clinical experience:

Has been engaged in clinical research and clinical teaching as the Chair, Department of Parasitology, Head of Department in Parasitology of the Faculty of Medicine, University of Colombo, and as a Member of a Board of Study of the Postgraduate Institute of Medicine, University of Colombo. The experience includes supervision of clinical research of postgraduate students (MD and PhDs).

Successful Supervision of Post-Graduate Trainees:

PhD: 9 post-graduate trainees successfully completed;
MD (Medical Parasitology) : 5 post-graduate trainees successfully completed
M.Phil., University of Colombo : 2 trainees successfully completed;
MSc (Molecular Medicine), University of Colombo : 4 trainees successfully completed;
BSc (Medical Sciences), University of Edinburgh, U.K. : 2 medical trainees successfully completed.

Completed research degrees:

Doctor of Philosophy **Role: Supervisor**

Myat Phone Kyaw Year: 2005 Institution: University of Colombo
Thesis title: Study on pathophysiological aspects of *P.falciparum* malaria.
Present position: Director (Research), Department of Medical Research, Ministry of Health, Myanmar.

DAR Premasiri Year: 2005 Institution: University of Colombo
Thesis title: Socio-economic, behvioural and environmental aspects of malaria transmission in an endemic area of Sri Lanka.
Present position: Regional Malaria officer, Ministry of Health, Sri Lanka.

PHD Kusumawathi Year: 2006 Institution: University of Colombo
Thesis title: Effectiveness of larvivorous fish and chemical larviciding with temephos in Anophiline mosquito control in river basins below the major dams in Sri Lanka.
Present position: Regional Malaria Officer, Ministry of Health, Sri Lanka.

STC Mahawithanage Year: 2007 Institution: University of Colombo
Thesis title: Study of relationship between nutritional status and malaria infections
Present position: Senior Lecturer, Department of Biochemistry, Faculty of Medical Sciences, University of Sri Jayawardenepura, Sri Lanka

WALD Wanasekera Year: 2007 Institution: University of Colombo
Thesis title: Role of white blood cells and soluble mediators of host origin and parasite factors that mediate clinical disease and immunity to *P.vivax* malaria infections
Present position: Dean, Faculty of Science, Horizon Campus, Malabe, Sri Lanka

HVYD Siriwardana Year: 2008 Institution: University of Colombo
Thesis title: Clinical epidemiology of cutaneous leishmaniasis in Sri Lanka and molecular identification of the parasite
Present position: Senior Lecturer, Department of Parasitology, Faculty of Medicine, Colombo.

K.K.G.D.U.L Kariyawasam Year :2018 Institution: University of Colombo
Thesis title: Phenotypic and genetic characteristics of *Leishnania donovani* that cause cutaneous Ieishmaniasis in Sri Lanka
Present position: Senior Researcher, Department of Biochemistry and Molecular Biology, Oklahoma State University, USA.

Nuwani H. Manamperi Year: 2018 Institution: University of Colombo
Thesis title: Host factors in the pathogenesis of cutaneous leishmaniasis due to *Leishmania donovani* in Sri Lanka.
Present position: Senior Lecturer, Department of Parasitology, Faculty of Medicine, University of Kelaniya

R Dewasurendra Year: 2020 Institution: University of Colombo
Thesis title: Host genetics and malaria
Present position: Scientific Officer, Department of Parasitology, Faculty of Medicine, University of Colombo.

Master of Philosophy **Role: Supervisor**

GSA Gunawardana Year: 2005 Institution: University of Colombo

Thesis title: Seasonal variation and predisposing factors in the incidence of soil transmitted helminth infections in the plantation sector of Sri Lanka.
Present position: Professor in Parasitology, Faculty of Medicine, Colombo.

Hiruni Wijesooriya Year: 2020 Institution: University of Colombo

Thesis title: Role of host innate cellular immune response in infections by *L. donovani*

Doctor of Medicine: with 18 months Research Project and dissertation

Role: Supervisor

SD Fernando Year: 2003 Degree: MD (Microbiology with special interest in Parasitology)
Title: Evaluation of Rapid Whole Blood Immunochromatographic P.f/P.v assay for the diagnosis of Plasmodium falciparum and *P.vivax* malaria.
Present position: Professor in Parasitology, Faculty of Medicine, Colombo.

GSA Gunawardana Year: 2007 Degree: MD (Microbiology with special interest in Parasitology)
Title: Soil-transmitted helminths in Sri Lanka
Present position: Professor in Parasitology, Faculty of Medicine, Colombo.

SASC Senanayake Year: 2007 Degree: MD (Microbiology with special interest in Parasitology)
Title: Study on Phlebotomine Sandflies in selected areas of Sri Lanka
Present position: Senior Lecturer in Parasitology, Faculty of Medicine, Colombo.

Wardha Refai Year: 2016 Degree: MD (Microbiology with special interest in Parasitology)
Title: Study of behavioural patterns in cutaneous leishmaniasis (CL) and efficacy and cost-

effectiveness of a novel treatment method for CL in Sri Lanka
Present position: Post-MD trainee, Ministry of Health, Sri Lanka.

KTGMP Kariyawasam Year : 2016 Degree: MD (Community Medicine)
Title: Cutaneous leishmaniasis: developing a valid and reliable instrument for community based case detection and epidemiology in Polonnaruwa district
Present position: Consultant community physician, Epidemiology unit, Ministry of Health, Sri Lanka.

Bachelor of Sciences (Medical Sciences) Role: Co-supervisor

Name: Shiona Couttes Year 1995 Institution: University of Edinburgh, UK

Dissertation title: Role of TNF-alpha in *P.vivax* malaria

Name: Jennifer Koh Year: 1994 Institution: University of Edinburgh, UK
Dissertation title: Host cells and soluble mediators of disease in malaria

MSc Molecular Medicine (Postgraduate/ 2 years) Role: Supervisor

Dr. NSAR Cooray Year: 2012 Postgraduate Institute of Medicine, University of Colombo
Dissertation title: A study on prevalence of toxoplasmosis in immunocompromised cancer patients
Present position: Medical Officer, Ministry of Health.

Dr. GSP Ranasinghe Year: 2012 Postgraduate Institute of Medicine, University of Colombo
Dissertation title: Setting up of a serological assay for diagnosis of leishmaniasis and seroprevalence of anti-leishmania antibodies in patients whose diagnosis has been confirmed through PCR.
Present position: Medical Officer, Ministry of Health.

Dr. HJD Liyanage Year: 2016 Postgraduate Institute of Medicine, University of Colombo
Dissertation title: G6PD polymorphism and chronic kidney disease of uncertain aetiology: a hospital based study.
Present position: Medical Officer, Ministry of Health.

Dr. IB Sumithraarchchi Year: 2016 Postgraduate Institute of Medicine, University of Colombo
Dissertation title: Hidden parasite reservoirs in residents of formerly malaria endemic areas: a challenge to malaria elimination program
Present position: Medical Officer, Ministry of Health.

Training ongoing:

Role: Supervisor

Name	**Year of Registration**	**Institution**	**Degree**
SASC Senanayake	2012	University of Colombo	MPhil/PhD

Title of study: Sandflies in Sri Lanka

KP Dulani Ruwanika 2017 University of Colombo PhD
Title: *Phlebotomus argentipes*, the vector of leishmaniasis in Sri Lanka; mechanisms and propagation of insecticide resistance

Hasna Rijal 2017 University of Colombo PhD
Title: Host innate immune mechanisms and parasite phenotypes in cutaneous leishmaniasis caused by *L.donovani* in Sri Lanka

Hermali Silva 2018 University of Colombo PhD
Title: Parasite determinants that influence the treatment outcome in cutaneous leishmaniasis in Sri Lanka

Dr. RWCK Kumarasiri 2019 University of Colombo MSc Mol Med
Title: Molecular detection of blood meal preference among female *Phlebotomus* sand fly in a selected area in Sri Lanka

Examination of dissertations/theses:

Name	Year of award	Institution	Degree
R. P. Morel	2004	University of Colombo	MD
Title: Intestinal Parasitoses in Children on Anti-Neoplastic Chemotherapy			
J.J. Pavilupillai	2013	University of Jaffna	MPhil
Title: Bionomics of *Anopheles subpictus* in selected locations in Sri Lanka			
K. Gajapathy	2014	University of Jaffna	PhD
Title: Taxonomy and Biology of sandflies in selected districts in Sri Lanka; a combined molecular, morphological and ecological approach			
V. Kumaran	2015	University of Jaffna	MPhil
Title: Glucose-6-Phosphate Dehydrogenase (G6PD) activity and its gene sequence analysis among selected individuals from malaria endemic northern Sri Lanka			
Salwa Shehu Dawaki	2017	University of Malaya	PhD
Title: Epidemiological study of multiple parasitic infections among rura communities in Kano State, Nigeria.			
Thilini C. Weeraratne	2017	University of Peradeniya	PhD
Title: DNA barcoding, genetic diversity, genetic structure and age structure of selected mosquito species of Sri Lanka.			
Kokila Sivabalakrishnan	2018	University of Jaffna	MPhil
Title: Cytogenetics and population genetics of An. Subpictus species complex in Northern Sri Lanka.			

Membership of National and International Academic and Professional bodies:

- Member, American Society of Tropical Medicine and Hygiene (2006 onwards)
- Fellow of the Royal Society of Tropical Medicine and Hygiene, London, U.K., 2003 onwards.
- Life Member of the Sri Lanka Medical Association, 1997 onwards
- Life Member of Organization of Professional Association of Sri Lanka (2011 onwards)
- Life Member of the Sri Lanka Association for the Advancement of Science, 1990 onwards.
- Council member of Sri Lanka Association for the Advancement of Science, 2002/2003.
- Life Member of the Sri Lanka College of Microbiologists, 1995 onwards.
- Council member of the Sri Lanka College of Microbiologists, 2000 TO 2005.
- Member of the Board of Study in Microbiology, Postgraduate Institute of Medicine, 2000 to 2005.
- Member of the Senate of the University of Colombo, 2000 onwards.

Workshops, Conferences, Symposia Organized:

Member of the Organizing Committee of 'Faculty Research Sessions 2020'.

Webinar on 'COVID-19: Vaccines and Diagnostics'. Sri Lanka College of Microbiologists co-organized with SLMA and the WHO. 20th November 2020. **Moderator.**

Webinar on 'COVID-19: Infection prevention and control strategies'. Sri Lanka College of Microbiologists co-organized with SLMA and the WHO. 20th November 2020. **Moderator.**

Virtual International Symposium on 'Enhanced Entrepreneurship Skills for Scientists in the 'new normal' environment', 25 July 2020; Sri Lankan National Chapter, Organization of Women in Science for the Developing World. **Chief Organizer**.

https://www.facebook.com/TIIKMconferences/videos/616395155669037/

Fifth South Asian Biotechnology Conference. New Delhi, India. 14-16 March 2019. Member of the International Advisory Board, **Session Chair and Guest Speaker**.

Fourteenth International Congress of Parasitology (ICOPA), Daegu, Korea, 19-24 August 2018. Member of International Advisory Board, **Session Organizer and Session Chair**.

Fourth South Asian Biotechnology Conference 2018, Colombo, Sri Lanka, 28-30 March 2018. **Coordinator of Conference**.

'Research Opportunities through the National Institute of Health, USA' Resource person: Dr. Malla Rao, Deputy Director, Department of Microbiology and Immunology, NIAID, NIH, USA. 5 July 2018. Faculty of Medicine, University of Colombo. **Seminar Organizer**.

Workshop on 'Leadership and Career Development for Women in Science, Technology and Education'. Held on 23rd May 2017 at the Hilton Residencies Hotel, Colombo. Chair of the **Organizing Committee**.

'Science Council of Asia Conference 2016', International Conference. Jointly organized by the National Academy of Sciences of Sri Lanka, National Science Foundation and Science Council of Japan. 30th May to 1st June 2016, Colombo, Sri Lanka. **Member of the Central Organizing Committee.**

Workshop on 'Research methodology for researchers in medical science'; 30-31 March 2016, University of Colombo. Conducted through the Research Promotion and Facilitation Center, Faculty of Medicine, Colombo.

Seminar on 'Motivation and Team Building'; 2nd June 2016, Department of Parasitology, Faculty of Medicine, Colombo. Target audience: Department staff

Workshop on 'Writing and publishing journal articles': 2nd March 2015, University of Colombo. Conducted in collaboration with the International Unit, University of Colombo and International Network for the Availability of Scientific Publications (INASP), UK.

Workshop on 'Effective mentorship in research communication and Writing club': 3rd /4th March 2015, Faculty of Medicine, Colombo. Conducted through the Research Promotion and Facilitation Centre (RPFC), in collaboration with the International Network for the Availability of Scientific Publications (INASP), UK.

Workshop on '**Good laboratory practices and laboratory safety'**: 16th to 19th December 2014, Faculty of Medicine, Colombo. Conducted by International Clinical Studies Support Center, FHI360, USA. Sponsored by Division of Microbiology and Infectious Diseases (DMID), National Institute of Allergy and Infectious Diseases (NIAID), NIH, USA.

Workshop on High quality PhDs: 27th November 2014. Faculty of Medicine, Colombo. Co-organizer/Resource person.

Second International Colloquium on Leishmaniasis – 25th-26th March 2013, Auditorium, Sri Lanka Institute of Development Administration (SLIDA), Colombo. Sponsored through the Indo-Sri Lanka Collaborative Program in Science and Technology.

Annual Research Symposium, Faculty of Medicine, Colombo. 4th October 2013, Faculty of Medicine, Colombo. Chair, Organizing Committee.

Workshop on 'Supervisor Skills in Research' on 8th February 2013, Faculty of Medicine, Colombo.

Workshop on 'Introduction to Post-graduate Research' on 6th -7th February 2013, Faculty of Medicine, Colombo.

Conference on 'Research Opportunities in global health at the NIH, USA' on 11th February

2011, NSF auditorium, Colombo 7.

Workshop on 'Data analysis, presentation and publication', supported through project on Improvement of Relevance and Quality of Education (IRQUE), Browns Beach Hotel, Negambo, 12th to 14th February 2010.

'First International Colloquium on leishmaniasis', 1st February 2009, Mount Lavinia Hotel, Colombo, Sri Lanka..

'*Plasmodium vivax*: beyond the genome', Symposium organized at the 57th Annual Sessions, American Society of Tropical Medicine and Hygiene, 7th – 11th December 2008. New Orleans, U.S.A.

Guest Lectures, Keynote Addresses, Presidential Addresses, Chairing of Scientific Sessions, Resource Person at workshops, Blogs:

Panel discussion on '"Research success and well-being in challenging times", Annual Research Symposium 2020, University of Colombo. **Panelist**.

International forum to commemorate World Science Day for Peace and Development
Theme: Science for and with Society. 10th November 2020.
Webinar organized jointly by UNESCO, New Delhi and Department of Science & Technology, Government of India. **Panelist.**

Regional Webinar on 'COVID 19- lockdown effect on status of women scientists'. Nepal Academy of Sciences. 19th July 2020. **Guest Speaker.**

Virtual International Symposium on 'Enhanced Entrepreneurship Skills for Scientists in the 'new normal' environment', 25 July 2020; Sri Lankan National Chapter, Organization of Women in Science for the Developing World. **Symposium Chair,**
https://www.facebook.com/TIIKMconferences/videos/616395155669037/

Workshop on Good Practices in Handling Grants and Advanced Statistics, Research Promotion and Facilitation Centre, Faculty of Medicine, University of Colombo. 24th January 2020. **Resource Person.**

Certificate Course in Post-graduate Research, Research Promotion and Facilitation Centre, Faculty of Medicine, University of Colombo. (2018-2019). **Resource Person.**

Empowering skills in preparation of international grant applications. Faculty of Medicine, National University of Malaysia (UKM). 7th May 2019. **Guest Speaker.**

Changing burden of leishmaniasis, threats to existing interventions and treatments. E-Asia Workshop on Infectious Diseases and Cancer. Asia-Pacific Scientific Workshop. Co-organized by NHMRC, HRC, NIAID and AMED. National University of Singapore. 4-5 March 2019. **Guest Speaker.**

Twenty-first international conference on Emerging Infectious Diseases. US-Japan Cooperative Medical Sciences Program. Hanoi, Vietnam. 25 February to 2 March 2019. **Guest Speaker**.

Leishmanisis in Sri Lanka: an atypical variant of *Ldonovani* as the causative agent and its visceralizing potential. 5th South Asian Biotechnology Conference. 14-16 March 2019. **Session Chair and Guest Speaker.**

Fourteenth International Congress of Parasitology. 19-24 August 2018. Daegu, Korea. **Session Organizer and Guest Speaker.**

Changing trends in infectious diseases in Sri Lanka. International Emerging Infectious Diseases Conference. Mumbai, India. 1-2 December 2018. **International Faculty and Guest Speaker.**

L.donovani variant that causes cutaneous leishmanisis in Sri Lanka. International Conference on Innovations for the Elimination and Control of Visceral Leishmaniasis 2018. JH Institute of Molecular Medicine, Jamia Hamdard, New Delhi. 28-30 November 2018, New Delhi, India. **Guest Speaker and Panelist.**

Guide on research grant proposal writing. Pre-Congress Workshop, 131st Anniversary International Medical Congress 2018, Sri Lanka Medical Association, Galadari Hotel, Colombo. 26th July 2018 Session **Chair and Panel Speaker and discussant.**

Elimination of vector-borne diseases: role of biotechnology tools and Sri Lankan experience. South Asian Biotechnology Conference. Kathmandu, Nepal. 16-18 March 2017. **Plenary Speaker and Session Chair.**

Leishmaniasis: the burden and potential strategies for control and elimination: Pre Congress Seminar. International Research Conference, Faculty of Medicine, General Sir John Kotelawala Defence University, 31st July 2017. **Plenary Speaker.**

Tenth Conference of the Indian Academy of Tropical Parasitology. Jawaharlal Institute of Postgraduate Medical Education and Research, Pondicherry, India. 2nd to 6th November 2016. **Session Chair and Guest lecturer**.

'Sixty seconds with Prof. Nadira Karunaweera', Question and answer session for Genomic Epidemiology of Malaria (MalariaGEN) partnership website https://www.malariagen.net/blog/60-seconds-prof-nadira-karunaweera

'Leishmaniasis in Sri Lanka', Panel discussion on 'Emerging infectious Diseases' and US-Japan cooperative medical sciences program. Bethesda, MD, USA. 11th-14th January 2016. **Keynote Presentation**.

'Control of Leishmaniasis in Sri Lanka', Symposium on 'Elimination of NTDs caused by helminthes and protozoa: the Sri Lankan perspective', 24th Annual Scientific Session, Sri Lanka College of Microbiologists. 12th -14th August 2015. **Invited Speaker**.

Women in Research and Development in Sri Lanka. Gender Issues in Science, Research and Education , Gender Summit 6- Asia Pacific 2015 and the 11th AASSA Regional Workshop. Seoul, Korea. 26th to 28th August 2015. **Guest Speaker and Session Chair**.

'Leishmaniasis in Sri Lanka: Towards its control and elimination'. Research Congress, Postgraduate Institute of Science, University of Peradeniya. 10th October 2015. **Guest Speaker Chair of a Technical Session.**

Symposium on leishmaniasis: are we ready to combat? Sri Lanka Medical Association. 12th November 2015. **Resource Person**.

Leishmaniasis in Sri Lanka: paving the way for control and elimination. Symposium on 'Elimination of NTDs caused by helminthes and protozoa: the Sri Lankan perspective. 24th Annual Scientific Sessions, The Sri Lanka College of Microbiologists. 12th to 14th August 2015. **Guest Speaker**.

Opportunities for career development: Orientation Program for academics. Organized by Dean' office and MEDARC. 19th January 2015. **Resource Person.**

Annual research symposium, Faculty of Medicine, University of Colombo. 21st November 2014. **Session Chair** (Session III).

Regulations, guidelines and procedures of the Research and Higher degrees Committee, Faculty of Medicine, Colombo 24th July 2014. **Resource Person**.

Ethical responsibilities of reviewers: Workshop on 'Reviewing research articles: are we doing it right?'. Organized by National Science and Technology Commission and Young Scientists Forum, 25th April 2014, Industrial Technology Institute, Colombo. **Guest speaker**.

Update on leishmaniasis: Seminar on Prevention and Control of Vector-borne diseases, Ministry of Health and World Health Organization country office in Sri Lanka. 1st April, 2014. BMICH, Colombo. **Guest speaker.**

'Leishmaniasis update' in Symposium on Current Trends in Tropical Medicine, Golden Jubilee and 36th Annual Academic Sessions of the Kandy Society of Medicine. 8th February 2014. Kandy. **Guest Speaker.**

'Leishmaniasis kills', Symposium organized by the Sri Lanka Medical Association. 13th November 2013. **Guest Speaker.**

'Joint workshop on Women in Science Education and Research, Second Summit of the South Asian Science Academies, Indian National Science Academy, New Delhi. 24th to 27th September 2013. **Session Chair.**

Use of ICT in higher education. Second Summit of the South Asian Science Academies, Indian National Science Academy, New Delhi. 24th to 27th September 2013. **Guest Lecture**.

Free paper session on Parasitology, 126th Anniversary Scientific Medical Congress of Sri Lanka Medical Association. 1-13th July 2013. **Session Chair.**

'Genomic Epidemiology of Malaria', Wellcome Trust Conference Centre, Welcome Trust Genome Campus, Hinxton, Cambridge, United Kingdom. 5th to 8th June 2013. **Session Chair**.

Workshop on 'Supervisor Skills in Research' on 8th February 2013, Faculty of Medicine, Colombo. **Resource Person.**

Workshop on 'Introduction to Post-graduate Research' on 6th -7th February 2013, Faculty of Medicine, Colombo. **Resource Person.**

Annual International Symposium. 2012. Tropical Medicine and Entomology: Benefits to national development. **Session Chair.**

'Update on leishmaniasis'. **Guest Lecture**. Inaugural conference, Sri Lankan Society for Microbiology, Faculty of Medicine, University of Peradeniya, 25th June 2012.

'Leishmaniasis: a newly established disease in Sri Lanka'. **Invited presentation**. Inaugural scientific sessions, Colombo Medical Faculty Alumni Association (COMSAA). September, 2012.

Symposium on difficult to treat infections. 21st Annual Academic Sessions, and International Conference on Infectious Diseases. Sri Lanka College of Microbiologists. 29th August 2012. **Moderator.**

'Update of leishmaniasis situation in Sri Lanka', **Invited presentation**, Consultative Meeting on Epidemiological Information on disease burden due to kala aza', South-East Asian Regional Office, World Health Organization. Thimphu, Bhutan, 8-10th March, 2011.

Scientific session on 'Parasitology and Virology', Annual Academic Sessions, Sri Lanka College of Microbiologists, 15th September 2011. **Session Chair**.

Workshop on 'Data analysis, presentation and publication', Browns Beach Hotel, Negambo, 12th to 14th February 2010. **Resource Person.**

Workshop on 'Writing a successful grant proposal', Organized by the National Science Foundation at the SLFI auditorium, Colombo, 25th February 2011. **Resource Person.**

'Malaria elimination in Sri Lanka – Progress update', 30th Anniversary PGIM Academic Sessions, Postgraduate Institute of Medicine, 28th April 2011. **Session Chair.**

Malaria and Leishmaniasis: Current SriLankan Situation**. Guest lecture**. Annual Academic Session, Batticaloa Medical Association, Batticaloa. 24th to 26th September 2010.

Update on malaria and leishmaniasis. **Plenary lecture**. Annual Scientific Sessions, Sri Lanka College of Microbiologists. 16th September 2010.

Microsaatellite diversity of *P.vivax* malaria parasite isolates. **Guest lecture**. 58th Annual meeting, American Society of Tropical Medicine and Hygiene, Symposium no. 160. 18th – 22nd November 2009.

'Laboratory diagnosis of leishmaniasis'. **Guest lecture**, Symposium on leishmaniasis, 18th Annual Academic Sessions, Sri Lanka College of Dermatologists, 8th March 2009.

'Leishmaniasis in Sri Lanka', **Guest lecture and Session Chair**, 4th World Congress on Leishmaniasis, WorldLeish4, 3rd to 7th February 2009, Lucknow, India.

Scientific session on 'Mycology and Parasitology', **Session Chair**, Annual Academic Sessions, Sri Lanka College of Microbiologists, 9th to 11th September 2009.

'*P.vivax*: beyond the genome*'*, **Symposium organizer and Chair**, 57th Annual Sessions, American Society of Tropical Medicine and Hygiene, 7th – 11th December 2008. New Orleans, U.S.A.

'Leishmaniasis in Sri Lanka', **Guest lecture**, National Consultative Workshop on Leishmaniasis, Ministry of Healthcare and Nutrition, Sri Lanka. 24th October 2008.

'Leishmaniasis: a newly established parasitic disease in Sri Lanka'. **Guest lecture**, CME series, Sri Lanka College of Microbiologists. 7th November 2008.

'Leishmaniasis: a newly established disease in Sri Lanka', **Guest lecture**, GH Matara, 8th August, 2008.

'An update on leishmaniasis: SriLankan experience', **Plenary lecture**, 27th Anniversary Academic Sessions, Postgraduate Institute of Medicine, University of Colombo, 2007.

'Paroxysms of *P.vivax* infections', **Key note address**, Spring Meeting and Malaria Meeting, British Society for Parasitology, University College Chester, United Kingdom, 2004.

'Leishmaniasis in Sri Lanka', **Guest lecture**, Infection Day 2004, Jointly organized by the Department of Clinical Medicine, Faculty of Medicine, Colombo and Sri Lanka College of Microbiologists, 2004.

'Leishmaniasis'. **Guest lecture**, 5th Annual Scientific Sessions. Sri Lanka College of Haematologists, 2004.

'Cutaneous leishmaniasis in Sri Lanka'. **Guest lecture**. 5th Sir Dorabji Tata Symposium on Leishmaniasis, Bangalore, India. 2004.

'Leishmaniasis in Sri Lanka', **Guest Lecture**, Infection Day, Department of Clinical Medicine, Faculty of Medicine, Colombo. 12th December 2004.

'Leishmaniasis'- Is it an established disease in Sri Lanka?, **Public lecture**, co-organized by the Section A, SLAAS and Institute of Biology, University of Colombo, March, 2003.

'Leishmaniasis', **Guest lecture**, Co-organised by the College of Community Physicians of Sri Lanka and Section A, Sri Lanka Association for the Advancement of Science, April, 2003.

'Emerging and newly established diseases in Sri Lanka', **Guest lecture.** Annual Academic Sessions, Sri Lanka College of Microbiologists, 2003.

'Leishmaniasis': Is it an established disease in Sri Lanka?' **Guest lecture**. Jointly organized by the Section A, Sri Lanka Association for the Advancement of Science and Institute of

Biology, 2003.

'Changing Trends in Infectious Diseases', **Presidential Address**, Section A, 2003.

'Myiasis'. **Guest lecture**. *Annual Academic Sessions and Joint Meeting with German Dermatological Society.* (2002).

'Clinical Disease in Malaria' **Guest lecture**, Mini-symposium on 'Malaria Research in Sri Lanka: Current status and future needs', Annual Academic Sessions, *Institute of Biology*, Sri Lanka. (2002).

Training Courses/Expert meetings Attended:

- NIAID Post Award Grants Policy and Management Training workshop. Bangkok, Thailand. 1-3 May 2019.
- General Assembly and Conference on Sustainable Development Goals. InterAcademy Partnership (IAP). Songdo, Korea. 9-11 April 2019.
- E-Asia Workshop on Infectious Diseases and Cancer. Asia-Pacific Scientific Workshop. Co-organized by NHMRC, HRC, NIAID and AMED. National University of Singapore. 3-6 March 2019.
- Virtual workshop on the 'use of parasitic databases for bioinformatics data analysis'. EuPathDB team, USA. 28-30 August 2019.
- First Annual Meeting and Workshop for both the International Centers of Excellence for Malaria Research (ICEMRs) and the Tropical Medicine Research Centers (TMRCs), NIAID, National Institute of Health, USA. 21-23 August, 2017. Gaithersburg, MD, USA.
- Gender Mainstreaming Roundtable conference and AuthorAID/INASP Partners meeting, 12-14 December 2017, Colombo, Sri Lanka.
- Training workshop on Technopreneurship for Women in Science, Technology and Innovation, International Science, Technology and Innovation Centre for South-South Cooperation under the auspices of UNESCO, Kuala Lumpur, Malaysia. 5th to 9th September 2016.
- International meeting for project coordinators, AuthorAid/ International Network for Availability of Scientific Publications (INASP), United Kingdom, 25th to 27th November 2015, Hotel Renuka, Colombo.
- Gender Summit 6- Asia Pacific 2015. Seoul, Korea. 26th to 28th August 2015
- Malaria leadership development course: Science of Eradication of malaria and advanced module in 'breaking the cycle'. Harvard University, Boston, USA. 14th to 22nd June 2015
- Gordon Research Conference on Tropical Infectious Diseases, Galveston, Texas, USA. 8th to 13th March 2015.
- Laboratory Quality Improvement and Safety Training. Organized and conducted by International Clinical Studies Support Center, Family Health International, USA and Sponsored by Department of Microbiology and Infectious Diseases, NIAID, National Institute of Health, USA. Venue: Colombo. 16th to 19th December 2014.
- Third summit of Science Academies of South Asia and the General Assembly of Association of Academies and Societies of Sciences in Asia. Indian National Science Academy, New Delhi, India. 14th to 17th October 2014.
- Regional Workshop on Women in Science and Technology. Association of Academies and Societies of Sciences in Asia and Turkish Academy of Sciences. Ege University, Izmir, Turkey. 29th -30th May 2014.
- The Fundamentals of Data Management Training, NIAID, National Institute of Health. Durham, North Carolina, USA. 29th July to 2nd August 2013.
- Training the Trainers for Online teaching of research writing, AuthorAID workshop, National Science Foundation, 11th and 14th March 2013.
- Training course on Management, International Medical University, Kuala Lumpur, Malaysia, 3rd to 7th May 2010.
- Ethics of Genetic Research Workshop, MalariaGen, Oxford University Clinical Research Unit, The Wellcome Trust Major Overseas unit, Vietnam. 2008.
- Research Supervision in the 21st Century, British Council Sri Lanka. 2008.

- Fundamentals of International Clinical Research Workshop, NIAID, National Institute of Health. Stevenson, Washington, U.S.A. 2007.
- Workshop on genomic databases of parasites, ApiDB. Athens, U.S.A. 2006
- Course on Accreditation of Senior Teachers in Higher Education, Staff Development Centre, University of Colombo, 2002/2003.
- Course on Immunology and Biotechnology applied to Infectious Diseases, T.D.R. World Health Organization, Geneva, 13.09.90 to 20.10.90.

Publications: h-index (Google Scholar) 32 ; i-10 index 72

Contributions to Text Books/ Supplementary reading material:

- Protozoa. In *Medical Microbiology*, 19th Edition, Michael R. Barer and Will L. Irving Eds. Elsevier, United Kingdom. **Chapter 59**. ISBN: 978-0-7020-7200-0. 2018. Chapter 59; Pp 603-617. https://www.us.elsevierhealth.com/medical-microbiology-9780702072000.html
- Overview of leishmaniasis with special emphasis on kala azar in South Asia. KP Chang, BK Kolli and Collaborators. In *Neglected Tropical Diseases- South Asia*, SK Singh Ed. Springer International Publishing. ISBN 978-3-319-68493-2 https://doi.org/10.1007/978-3-319-68493-2_1 . 2017.
- Relationship between fever and plasma levels of tumour necrosis factor in *P.vivax* malaria, The host's response to infection by BM Greenwood, *in The Concise Oxford Textbook of Medicine*, 3rd Edition, Volume 1, Oxford University Press, United Kingdom, Chapter 7.3, Pp 275-285, (2001).
- Fever with chills and rigors, in *Biology of Diseases*, J. Phillips, P. Murray and P.Kirk, eds, 2nd Edition, Blackwell Science Ltd. United Kingdom. Case study 5. Pp. 231-234. (2001).
- Life cycle of the malaria parasite, in *Malaria: Guide for Medical Personnel*. A Health Education Bureau publication. (2001).
- Diagnosis and management of malaria. A handbook for medical officers. By Dr. N.D. Karunaweera and R.Fernandopulle. ISBN 955-8891-00-2. (2003).
- Leishmaniasis: update and action plan for prevention and control. (2009)
- Epidemiology of Leishmaniasis in Sri Lanka, ND Karunaweera and HVYD Siriwardana. (2011). In *Kala Azar: Emerging perspectives and prospects in South Asia,* H P Thakur Ed. Mittal Publications, New Delhi, India. ISBN 81-8324-355-X.
- Diagnosis and treatment of malaria, 2nd edition, ND Karunaweera and BMR Fernandopulle, (2011). ISBN 978-955-8891-02-5.
- Management of Leishmaniasis*. In The Sri Lanka Prescriber,* Vol. 21(2): 2013. ISSN 1391-0736.
- Update on Clinical, Diagnostic, Chemotherapeutic and Entomological aspects of Leishmaniasis and Updated Action Plan for Prevention and Control in Sri Lanka. (2013). ISBN 978-955-0460-55-7.
- Ethics in Human and Animal Experiments. *In A Guide for Beginners in Research*, Edited by MCM Iqbal, General Research Committee, Sri Lanka Association for the Advancement of

Science Publication. 2014. ISBN 978-955-9321-14-9.

- Women in Education and Employment in Sri Lanka. N.H. Silva and N.D. Karunaweera. *In Women in Science and Technology in Asia*. The Association of Academies and Societies of Sciences in Asia. 2015. Panmun Education Co., Ltd. ISBN 979-11-86795-00-2.

Patents:

- Patent No.12887, National Intellectual Property Office of Sri Lanka, in respect of the invention entitled 'Use of a thermostable clay device for maintenance of Leishmania cultures'. 2002.
  N.D.Karunaweera, R.L. Ihalamulla and C.P.G. Liyanage.

- Patent No. 13303, National Intellectual Property Office of Sri Lanka, in respect of the invention entitled 'Neural network architecture for the automated recognition of malaria parasites in stained blood films'. 2004.
  S.P.Premaratne, **N.D.Karunaweera** and W.S.R. Perera.

Scientific articles authored:

Reviews, Leading Articles and Editorials:

1. Carter R, **Karunaweera ND.** The Role of Improved Housing and Living Environments in Malaria Control and Elimination. Malaria Journal. *(2020) 19:385.* https://doi.org/10.1186/s12936-020-03450-y **Commentary.**
2. **Karunaweera ND**, Ferreira MU. (2018). Leishmaniasis: current challenges and prospects for elimination with special focus on the South Asian region. Parasitology. 12:1-5. doi: 10.1017/S0031182018000471. **Editorial.**
3. **Karunaweera ND** (2016). Leishmaniasis: Path towards elimination from the Indian subcontinent. Tropical Parasitology. 6(1): 2-4. **Guest Commentary**.
4. Gunawardena S, **Karunaweera ND**. (2015). Advances in genetics and genomics: use and limitations in achieving malaria elimination goals. Journal of Pathogens and Global Health. 109(3): 123-141. **Special Issue Article**.
5. **Karunaweera ND,** Galappaththi GNL, Wirth DF. (2014). On the road to eliminate malaria in Sri Lanka: lessons from history, challenges, gaps in knowledge and research needs. Malaria Journal. 13:59 doi:10.1186/1475-2875-13-59 **Review.**
6. **Karunaweera ND**. Health research towards nation development. (2013). Journal of the National Science Foundation of Sri Lanka, 41((2): 71-72. **Editorial**.
7. Siriwardana HVYD, Chandrawansa PH, Sirimanna G, **Karunaweera ND** (2012). Leishmaniasis in Sri Lanka: a decade old story (2002-2012). Sri Lanka Journal of Infectious Diseases, 2(2): 2-12. **Review**. http://www.sljol.info/index.php/SLJID/issue/view/425
8. **Karunaweera ND** (2009). *Leishmania donovani* causing cutaneous leishmaniasis in Sri Lanka: A wolf in sheep's clothing? *Trends in Parasitology*, 25(10):458-463. **Opinion.**
9. **Karunaweera ND**, Rajapaksa U. (2009). Is Leishmaniasis in Sri Lanka benign and be ignored? Journal of Vector Borne Diseases, 46, 13-17. **Review article.**
10. **The Malaria Genomic Epidemiology Network.** (2008). A global network for investigating the genomic epidemiology of malaria. Nature, 456(1): 732-737. **Insight Commentary**.

11. Karunaweera ND. Leishmaniasis: a newly established parasitic disease in Sri Lanka. (2008). Journal of the Ruhunu Clinical Society, **15**:3-5. **Leading article**.

12. Karunaweera ND. Imported drug-resistant severe malaria. Ceylon Med J. (2005) 50(3):101-103. **Leading Article.**

13. Karunaweera ND, Wijesekera S, Wanasekera LD, Mendis KN and Carter R. The paroxysm of *Plasmodium vivax* malaria. (2003). *Trends in Parasitology*, **19(4):**188-193. **Review article.**

14. Wanasekera LD and Karunaweera ND. Parasite and host mediators associated with paroxysms in *P.vivax* malaria. (2005). *Asian Parasitology*, **6**:183-189. **Review article.**

15. Siriwardana HVYD and Karunaweera ND. Leishmaniasis in Sri Lanka. (2005). *Asian Parasitology*. **4**:257-261. **Review article.**

Original Research Publications in Refereed Journals (in descending chronological order);

16. **Karunaweera ND**, Ginige S, Senanayake S, Silva H, Manamperi N, Samaranayake N, Siriwardana Y, Gamage D, Senerath U, Zhou G. (2020). Spatial Epidemiologic Trends and Hotspots of Leishmaniasis, Sri Lanka, 2001–2018. Emerging Infectious Diseases. 26(1). DOI: https://doi.org/10.3201/eid2601.190971

17. Silva H, Liyanage A, Deerasinghe T, Sumanasena B, Munidasa D, de Silva H, Weerasingha S, Fernandopulle R, **Karunaweera ND**. Therapeutic response to thermotherapy in cutaneous leishmaniasis treatment failures for sodium stibogluconate: A randomized controlled proof of principle clinical trial. American Journal of Tropical Medicine and Hygiene. *In Press.*

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Research Communications with publications in abstract form

1. Piyasiri HSB, Samaranayake TN, Silva NH, Manamperi N, Karunaweera ND. (2020). Humoral responses in patients with cutaneous leishmaniasis due to Leishmania donovani: a preliminary study. 69th Annual meeting. American Society of Tropical Medicine and Hygeine, Toronto, Canada. Abstract no. 5204.
2. Piyasiri HSB, Samaranayake TN, Priyadarshana PHMGC, Hasinthara GAS, Silva NH, Manamperi N, Senanayake SASC, Karunaweera ND. (2020). Knowledge, attitude and practices related to leishmaniasis among healthcare workers in an endemic area in southern Sri Lanka. 9th Annual Conference and Scientific Sessions 2020. Sri Lanka Society for Microbiology. Abstract no. A24.
3. Kumarasiri RWCK, Senanyake SASC, Siraj MAF, Shantha DS, de Silva BGDNK, Karunaweera ND. (2020). Is the affinity of sand flies to human blood increasing? Proceedings of Annual Research Symposium, Faculty of Medicine, University of Colombo held on 14th December 2020. Abstract no. OP 07. **(1st Runner-up winner of Best Oral Presentation competition).**
4. Deepachandi MAB, Siridewa K, Weerasinghe CS, Gunathilake H, Karunaweera ND, Udegedara C, Warnasuriya W, Wickremarathne C, Ranawaka RR, Kahawita I, Siriwardana HVYD. (2020). First report on clinical diversity within classical cutaneous leishmaniasis: parasite or host related? Proceedings of Annual Research Symposium, Faculty of Medicine, University of Colombo held on 14th December 2020. Abstract no. OP 09.
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11. Kumarasiri RWCK, Senanayake SASC, Siraj MFR, Shantha S, de Silva BGDNK, Karunaweera ND. (2020). Moleuclar-based identification of the blood meal source in field-collected female *Ph. argentipes* sand flies in Sri Lanka. 69th annual meeting of American Society of Tropical Medicine and Hygiene (ASTMH) on November 15-19, 2020 at Toronto, Canada. Abstract no. LB-5095.
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45. Kariyawasam U, Siriwardana HVYD, Dube A, Nakhasi HL, Karunaweera ND. 2016. The Role of IL-10 and IFN-g in virulence of dermotropic *L.donovani* in Sri Lanka. 65th Annual meeting, American Society of Tropical Medicine and Hygiene, Philadelphia, USA. Vol. 95:(5): Pp550-551. Abstract No. 1758. (Poster)
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53. Senanayake SASC, Somaratne KKVN, Munidasa D, Karunaweera ND. 2016. Study on delay in seeking treatment for cutaneous leishmanisis among patients in selected dermatology clinics. Proceedings of Annual Research Symposium, University of Colombo. ISSN 2386-1916. Abstract Pp 241. (Poster)
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56. Senanayake S, Karunaweera ND. 2016. Parasite clearance following intralesional SSG therapy in cutaneous leishmaniasis patients in Sri Lanka. . International Congress for Tropical Medicine and Malaria, Brisbane, Australia. Abstract No. 936. (Oral).
57. Manamperi N, de Silva C, Karunaweera ND. 2016. In-silico analyasis of HLA profiles in a population from an endemic focus for cutaneous leishmaniasis. International Congress for Tropical Medicine and Malaria, Brisbane, Australia. Abstract No. 733. (Poster).
58. Dewasurendra R, Supulveda N, Gunawardana S, Chandrasekharan N, Drakely C, Karunaweera ND. 2016. Assessment of malaria transmission using serology in two previously endemic districts in Sri Lanka. International Congress for Tropical Medicine and Malaria, Brisbane, Australia. Abstract No. 69. (Poster).
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60. Kariyawasam U, Karunaweera ND. (2016). Visceralizing potential of dermotropic L.donovani in Sri Lanka: use of Balb/C mouse model. International Congress for Tropical Medicine and Malaria, Brisbane, Australia. Abstract No. 131. (Poster).
61. Refai W, Madarasinghe N, Sumanasena B, Weerasinghe S, de Silva A, Fernandopulle R, Satoskar A, Karunaweera ND. 2016. Efficacy, safety and cost-effectiveness of thermotherapy in the treatment of *L.donovani*-induced cutaneous leishmaniasis: A randomized controlled clinical trial. International Congress for Tropical Medicine and Malaria, Brisbane, Australia. Abstract No. 230. (Poster).
62. Kariyawasam U, Karunaweera ND. 2016. Leishmaniasis in Sri Lanka: an atypical variant of *L.donovani* as the causative agent and its visceralizing potential. International Congress for Tropical Medicine and Malaria, Brisbane, Australia. Abstract No. 1206. (Oral).
63. Wijesooriya H, Samaranayake N, Somaratna V, Karunaweera ND. 2016. Early interactions of L.donovani causing cutaneous leishmaniasis with host macrophages. International Congress for Tropical Medicine and Malaria, Brisbane, Australia. Abstract No. 856. (Oral).
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65. Silva NH, Abhayawickrama WIBP, Karunaweera ND. 2016. Women leadership in National development through higher education and research. Science Council of Asia Conference-16. Colombo, Sri Lanka. Abstract Pp. 253-258.
66. Manmperi NH, Fernando CS, Pathirana N, Abeywickrama W, de Silva VC, Karunaweera ND. 2015. Clinical and hitopathological characteristics of cutaneous leishmaniasis in a group of military personnel in Sri Lanka. 64th Annual meeting, American Society of Tropical Medicine and Hygiene, Philadelphia, USA. Vol. 93:(4): Pp336. Abstract No. 1102.
67. Kariyawasam U, Siriwardana Y, Edirisuriya CS, Senerath U, Karunaweera ND. 2015. A case-control study for possible risk factors for cutaneous leishmaniasis in southern Sri Lanka. 64th Annual meeting, American Society of Tropical Medicine and Hygiene, Philadelphia, USA. Vol. 93:(4): Pp538. Abstract No. 1757.
68. Senanayake SASC, Somaratne KKVN, Munidasa D, Karunaweera ND. 2015. Treatment seeking behavior among cutaneous leishmaniasis patients in Sri Lanka. 64th Annual meeting, American Society of Tropical Medicine and Hygiene, Philadelphia, USA. Abstract No. LB 5067.
69. Deepachandi,MAB, Ali N, Soysa SSSBDP, Karunaweera ND, Siriwardana HVYD. 2015. A study on seroprevalence of cutaeneous leishmaniasisi in Sri Lanka using a locally developed enzyme-linked immunosorbaent assay. Proceedings of Annual Research Symposium, University of Colombo. ISSN 2386-1916. Abstract Pp 83. **[Awarded the 1st Prize]**.
70. Deepachandi,MAB, Kariyawasam KKGDU, Weerasinghe S, Soysa SSSBDP, Siriwardana HVYD, Karunaweera ND. 2015. Clinico-epidemiological pattern of cutaneous leishmaniasis in Sri Lanka. Proceedings of Annual Research Symposium, University of Colombo. ISSN 2386-1916. Abstract Pp 88 [Poster].
71. Wijesooriya MWAHD, Samaranayake TN, Somaratne KKVN, Karunaweera ND. 2015. Macrophage derived immunological markers in cutaneous leishmaniasis due to *L.donovani*. Proceedings of Annual Research Symposium, University of Colombo. ISSN 2386-1916. Abstract Pp 90 [Poster].
72. Dewasurendra RL, Sepulveda N, Gunewardena GSA, Chandrasekharan NV, Drakeley CJ, Karunaweera ND. (2015). Assessment of malaria transmission intensity using anti-$MSP1_{19}$ (*P.vivax*) antibody as a serological marker in Kurunegala district. Proceedings of Annual Research Symposium, University of Colombo. ISSN 2386-1916. Abstract Pp 94 [Poster].

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74. Kariyawasam KKGDUL, Siriwardana HVYD, Karunaweera ND. 2015. Is *Leishmania donovani* causing cutaneous leishmaniasis in Sri Lanka essentially dermotropic? 24th Annual Scientific Sessions, The Sri Lanka College of Microbiologists. Vol. 13(1): Abstract No. OP2.
75. Refai FW, Weerasingha NP, Weerasingha S, Senerath U, de Silva A, Fernandopulle R, Satoskar A, Karunaweera ND. 2015. Efficacy, safety and cost-effectiveness of thermotherapy, a novel mode of treatment for *Leishmania donovani*-induced cutaneous leishmaniasis: A randomized controlled clinical trial. 24th Annual Scientific Sessions, The Sri Lanka College of Microbiologists. Vol. 13(1): Abstract No. PP2. (**First Prize Awarded**).
76. Manamperi NH, de Silva MVC, Fernando C, Pathirana KPN, Abeywickreme W, Karunweera ND. 2015. Histopathological spectrum in acute and chronic cutaneous leishmaniasis in Sri Lanka. 24th Annual Scientific Sessions, The Sri Lanka College of Microbiologists. Vol. 13(1): Abstract No. PP14. (Poster).
77. Senanayake SASC, Karunaweera ND. 2015. Insecticide susceptibility of wild caught adult sandflies from Hambantota district. 128th Anniversary International Medical Congress, Sri Lanka Medical Association. Abstract No. PP029 (Poster).
78. Refai FW, Madarasingha NP, Weerasinghe S, Senerath U, de Silva A, Fernandopulle R, Satoskar A, Karunaweera ND. 2015. Efficacy, safety and cost-effectiveness of thermotherapy, a novel mode of treatment for *Leishmania donovani*-induced cutaneous leishmaniasis: A randomized controlled clinical trial. 128th Anniversary International Medical Congress, Sri Lanka Medical Association. Abstract No. OP001.
79. Kotalawala HS, Kariyawasam KKGDUL, Deepachandi MAB, Weerasinghe S, Siriwardana HVYD, Karunweera ND. 2015. Laboratory diagnosis of cutaneous leishmaniasis: are second line investigations really necessary? 128th Anniversary International Medical Congress, Sri Lanka Medical Association. Abstract No. PP070 (Poster).
80. Deepachandi MAB, Kariyawasam KKGDUL, Weerasinghe S, Ali N, Soysa SSSBDP, Karunaweera ND, Siriwardana HVYD. 2015. A serological study on cutaneous leishmaniasis in Sri Lanka reveals antigen heterogeneity. 128th Anniversary International Medical Congress, Sri Lanka Medical Association. Abstract No. PP109 (Poster).
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