

### Contributions to Text Books/ Supplementary reading material:

- Protozoa. In *Medical Microbiology*, 19<sup>th</sup> 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](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*, 3<sup>rd</sup> 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, 2<sup>nd</sup> 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.*
18. Dewasurendra RL, Dewasurendra RL, Baniecki ML, Schaffner S, Siriwardana HVYD, Moon J, Doshi R, Gunawardana GSA, Daniels RF, Neafsey D, Volkman S, Chandrasekharan NV, Wirth DF, **Karunaweera ND.** 2020. Use of a *Plasmodium vivax* genetic barcode for genomic surveillance and parasite tracking in Sri Lanka. *Malaria Journal*.19:342. <https://doi.org/10.1186/s12936-020-03386-3>
19. Pathirage DRK, Karunaratne SHPP, Senanayake SC, **Karunaweera ND.** (2020). Insecticide susceptibility of the sand fly leishmaniasis vector *Phlebotomus argentipes* in Sri Lanka. *Parasit Vectors* 13(1): 246. <https://doi.org/10.1186/s13071-020-04117-y>
20. Pradhan A, Tobgay T, Dorjee S, Wangdi T, Zhou G, **Karunaweera ND.** (2020). Atypical presentation of post-kala-azar dermal leishmaniasis in Bhutan. *Case Reports in Dermatological Medicine* 2020: Article ID 8899586, <https://doi.org/10.1155/2020/8899586>
21. Ahuja K, Vats A, Beg MA, Chaudhury A, Chatterjee M, Kariyawasam U, **Karunaweera ND**, Selvapandiyana A. (2020). High Resolution Melting based method for rapid discriminatory

diagnosis of co-infecting *Leptomonas seymouri* in *Leishmania donovani*-induced leishmaniasis. Parasitology International. 75 : 102047.

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22. Deepachandi B, Weerasinghe S, Andrahennadi TP, **Karunaweera N**, Wickramarachchi N Soysa P, Siriwardana Y. (2020). Quantification of soluble or insoluble fractions of *Leishmania* parasite proteins in micro-volume applications: a simplification to standard Lowry assay. International Journal of Analytical Chemistry. 2020: 6129132. <https://doi.org/10.1155/2020/6129132>
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24. Senarath U, Senanayake S, Pathirana S, **Karunaweera N**, Weerasinghe MC, Gunawardena NS, Munugoda IP, Jayasinghe S, Amarathunga P, Corea E, De Silva V, Fernando D, Fernando R, Gnanathasan A, Gunatilake M, Gunawardena S, Katulanda P, Rajapakse S, Samaranayake N, Siriwardana Y. (2019). Health in rural Sri Lanka: A cross-sectional survey of three rural districts. Ceylon Med J. 2019 Sep 30;64(3):103-110. doi: 10.4038/cmj.v64i3.8957.
25. Siriwardana Y, Deepachandi B, Gunsekara C, Warnasuriya V, **Karunaweera ND**. (2019). First Evidence for Two Independent and Different Leishmaniasis Transmission Foci in Sri Lanka: Recent Introduction or Long-Term Existence? Journal of Tropical Medicine <https://doi.org/10.1155/2019/6475939>
26. Deepachandi B, Weerasinghe S, Soysa P, **Karunaweera N**, Siriwardana Y. 2019. A highly sensitive modified nested PCR to enhance case detection in leishmaniasis. BMC Infectious Diseases 19:623. <https://doi.org/10.1186/s12879-019-4180-3>
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32. Refai W, Madarasingha N, Sumanasena B, Weerasinghe S, Fernandopulle R **Karunaweera ND**. (2018). Cutaneous leishmaniasis in Sri Lanka: effect on quality of life. *International Journal of Dermatology*. doi: 10.1111/ijd.14240.
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34. Siriwardana YD, Deepachandi B, Ranasinghe S, Soysa P, **Karunaweera ND**. (2018). Evidence for seroprevalence in human localized cutaneous leishmaniasis caused by *L. donovani* in Sri Lanka. *Biomed Research International* 17;2018:9320367. doi: 10.1155/2018/9320367.
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