

# Curriculum Vitae

## Personal Information:

Name : Dhammika N. Magana-Arachchi  
Sex : Female  
Nationality : Sri Lankan (Sinhalese)  
Address  
Home : 215 J ¼, Park Road, Colombo 5, Sri Lanka  
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Sri Lanka  
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Professional Status : Senior Research Fellow

## Academic Qualifications:

1. **PhD in Microbiology/Molecular Biology; 2001**- Faculty of Medicine, University of Colombo, Sri Lanka.  
“PCR based detection techniques and DNA fingerprinting by Restriction Fragment analysis of *Mycobacterium tuberculosis*”.
2. **B.Sc Special degree in Chemistry; 1994** - Faculty of Science, University of Colombo, Sri Lanka.

## Key Skills:

- Experience in techniques used in molecular biology including isolation of DNA, RNA, cloning, PCR, RT-PCR, qPCR, Restriction fragment analysis (RFLP), Southern and Northern analysis, Spoligotyping, MIRU-VNTR analysis, Antibiotic sensitivity testing, etc. Protein purifications, SDS page and Western blots, DNA sequencing, Animal studies (Rat), Tissue culture, maintaining cell lines (primary & secondary), transfections, Immunocytochemistry, HPLC, LC-MS & other analytical techniques

## Academic and Professional Experience:

Name and address of institution	Dates	Position
National Institute of Fundamental Studies, Sri Lanka	August 2013 – to date	Senior Research Fellow
Institute of Fundamental Studies, Sri Lanka	Dec 2004 - July 2013	Research Fellow
University of Nebraska Medical Center, USA	01/11/2002- 30/09/2004	Research Fellow
Institute of Fundamental Studies, Sri Lanka	12/ 2001- 10/ 2002	Research Fellow

## Teaching Experience:

Medical Microbiology, Molecular biology, Chemistry

The experience includes lectures, demonstrations, small group discussions, of above disciplines at undergraduate and postgraduate levels.

## Awards, Scholarships;

The President's Research Bonus, WPSC Young Investigators Award, Prof. K. Rajasuriya Award (Tropical Medicine), Paul Ehrlich Foundation Fellowship

## Other Relevant Training/ Experience:

Participated in more than 20 workshops in the field of Biological & chemical Sciences, patent drafting, Training Course for Good Laboratory Practice (GLP), Training Course for Laboratory Accreditation ISO 17025, ‘Intellectual Property Rights (IPRs) for Innovations and Development, ‘Intellectual Property Rights (IPRs) for Growth & Prosperity’, National Forum on Water Research, Courses in Research Ethics Review, Training on trainers in Science Communication, Thematic Programmes for Nanotechnology, etc

## Research Grants:

### Principal Investigator

**RG/2006/HS/07** –National Science Foundation, Sri Lanka, **NRC/06/47-** -National Research Council, Sri Lanka, **NRC/11/059-** National Research Council, Sri Lanka

### Co-Investigator

**NRC/12/031-**National Research Council, Sri Lanka, **RG/2014/EB/03-** National Science Foundation, Sri Lanka, **TB Campaign;** Anti Tuberculosis Campaign, Sri Lanka.

## Research Supervision:

Presently one PhD student, four M. Phil students and one MSc student is working under my supervision. One student had submitted her PhD. Thesis. Four students completed their postgraduate degrees; one PhD, two M. Phils and one MSc.

## Research Publications

Published around 25 papers & two book chapters in peer reviewed, international & local journals and presented over 78 papers in international and national scientific sessions on a variety of topics.

### Sri Lankan patent-17423

**Magana-Arachchi DN\***.Detection of *rpoB*, *inhA* and *katG* sequences of *Mycobacterium tuberculosis* complex. (2015).

### As a Scientific Reviewer

BMC Infectious Diseases, Archives of Medical Research, Pakistan Journal of Scientific & Industrial Research, Lung India. BMC Nephrology

### Serving in Scientific Committees

Member of the Board of Study in Biochemistry & Molecular Biology, Post Graduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka

## PUBLICATIONS

1. Lakshika Weerasundara, R.W.K. Amarasekara, **D.N. Magana-Arachchi\***, Abdul M.Ziyath, D.G.G.P. Karunaratne, Ashantha Goonetilleke, **Meththika Vithanage\***, 2017. Microorganisms and heavy metals associated with atmospheric deposition in a congested urban environment of a developing country: Sri Lanka, *Science of the Total Environment* 584–585 (2017) 803–812. <http://dx.doi.org/10.1016/j.scitotenv.2017.01.121>
2. Saravanabavan Sayanthooran, **Dharmika N. Magana-Arachchi\***, Lishanthe Gunerathne and Tilak Abeysekera. Potential diagnostic biomarkers for chronic kidney disease of unknown etiology (CKDu) in Sri Lanka: a pilot study. *BMC Nephrology* (2017) 18:31. DOI 10.1186 / s12882-017-0440-x
3. Saravanabavan Sayanthooran, **Dharmika N. Magana-Arachchi\***, Lishanthe Gunerathne, Tilak D. J. Abeysekera, and Suneth S. Sooriyapathirana (2016). Upregulation of Oxidative Stress Related Genes in a Chronic Kidney Disease Attributed to Specific Geographical Locations of Sri Lanka. *BioMed Research International*. Article ID 7546265, 9 pages. <http://dx.doi.org / 10.1155 /2016 /7546265>
4. Harshini M. Liyanage, **Dharmika. N. Magana Arachchi\*** and Naduviladath V. Chandrasekaran (2016).Genetic divergence among toxic and non-toxic cyanobacteria of the dry zone of Sri Lanka. *SpringerPlus* 5:2026. DOI 10.1186/s40064-016-3680-5
5. Keerthirathne TK, Weerasekera D, **Magana-Arachchi D.N.\***, Dissanayake N (2016). Molecular diagnostics in a tuberculous patient with clinical non response to standard treatment. *Sri Lankan Journal of Infectious Diseases* 6 (2):119-125 DOI: <http://dx.doi.org/10.4038/sljid.v6i2.8103>
6. Keerthirathne TK, **Magana-Arachchi D.N.\***, Madegedara D, Sooriyapathirana SS (2016). Real time PCR for the rapid identification and drug susceptibility of Mycobacteria present in Bronchial washings. *BMC Infectious Diseases* 16:607. DOI 10.1186/s12879-016-1943-y

7. Madhushankha Liyanage, **Dharmika Magana-Arachchi**† Charitha Priyadarshika, Tilak Abeysekara and Lishantha Guneratne. (2016). Cyanobacteria and cyanotoxins in well waters of the Girandurukotte, CKDu endemic area in Sri Lanka; do they drink safe water? *Journal of Ecotechnology Research* 18 (1), 17-21
8. SA Kulasooriya & **DN Magana-Arachchi** (2016). Nitrogen fixing cyanobacteria: their diversity, ecology and utilisation with special reference to rice cultivation. *J.Natn.Sci.Foundation Sri Lanka* 44 (2)
9. H.M. Liyanage, **D.N. Magana Arachchi**\*, T. Abeysekara & L. Guneratne (2016): Toxicology of Freshwater Cyanobacteria, *Journal of Environmental Science and Health, Part C*, DOI: 10.1080/10590501.2016.1193923
10. Weerasekera D, **Magana-Arachchi D**\*, Madegedara D, Dissanayake N, Thevanesam V. (2015) Genetic diversity of *Mycobacterium tuberculosis* isolates obtained from three distinct population groups in the Central Province, Sri Lanka. *Asian Pac J Trop Dis*; 5(5): 385-392.
11. Wanigatunge, R.P. **Magana-Arachchi, D.N**\*. Chandrasekharan, N.V. Kulasooriya, S.A. (2014). Genetic diversity and molecular phylogeny of cyanobacteria from Sri Lanka based on 16S rRNA gene. *Environ. Eng. Res.* **2014**, 19(4), 185-197.
12. DK Weerasekera, **DN Magana-Arachchi**\*, D Madegedara and N Dissanayake (2014). PCR – Restriction Fragment Length Polymorphism analysis for the differentiation of mycobacterial species in bronchial washings. *Ceylon Medical Journal.* 59 (3); 79-83.
13. Madhushankha Liyanage\*, **Dharmika Magana – Arachchi**\* and Naduwiladath Chandrasekharan (2013). Identification of *Cylindrospermopsis* and *Cylindrospermopsis raciborskii* from Anuradhapura District, Sri Lanka. *Journal of Ecotechnology Research.* 17[1], 23- 28
14. **D.N. Magana-Arachchi**\* and R.P. Wanigatunge (2013). First report of genus *Chroococcidiopsis* (cyanobacteria) from Sri Lanka: a potential threat to human health. *J.Natn.Sci.Foundation Sri Lanka* **41** (1): 65-68
15. **D.N. Magana Arachchi**\* and H.M. Liyanage (2012) Determining the presence of cyanotoxins in water reservoirs of Anuradhapura, using molecular and bioassay methods *J.Natn.Sci.Foundation Sri Lanka.* **40**(2):157-167
16. **D.N. Magana Arachchi**\* (2011).Molecular diagnosis of tuberculosis (TB); a review of recent literature.*Respire.*3:3-6.
17. **D. N. Magana-Arachchi**<sup>a\*</sup>, D. Medagedara & V. Thevanesam (2011) Molecular characterization of *Mycobacterium tuberculosis* isolates from Kandy, Sri Lanka. *Asian Pacific Journal of Tropical Disease.* 1 (3); 181-186
18. **Dharmika Magana-Arachchi**\*, Rasika Wanigatunge and Madhushankha Liyanage (2011) Molecular characterization of cyanobacterial diversity in Lake Gregory, Sri Lanka. *Chinese Journal of Oceanology and Limnology.* 29 (4): 898-904.
19. **D.N. Magana-Arachchi**\* and R.P. Wanigatunge(2011). A simple and rapid DNA extraction method for cyanobacteria and monocots. *Ceylon Journal of Biological Sciences* 40(1): 59-63
20. **Magana-Arachchi DN**\*, Perera AJ , Senaratne V and Chandrasekaran NV (2010)Pattern of Drug Resistance and RFLP Analysis on Mycobacterium Tuberculosis Strains Isolated From Recurrent Tuberculosis Patients. *Southeast Asian Journal of Tropical Medicine and Public Health.*41(3); 583-589.
21. **Dharmika Magana-Arachchi**<sup>a\*</sup>, Jennifer Perera, Sirithilak.Gamage, Vishvanath Chandrasekharan (2008). Low Cost In House PCR for Routine Diagnosis of tuberculosis. *International Journal of Tuberculosis and Lung Disease.*12 (3): 275-280.
22. **Magana-Arachchi D.N**\*, Wanigatunge, R.P, Jeyanandarajah P (2008). Setting up a Polymerase Chain Reaction Assay for the detection of toxic cyanobacteria *Journal of National Science Foundation of Sri Lanka.* 36(3):229-233.
23. **Magana-Arachchi D.N**\*, Wanigatunge, R.P (2008).Molecular and morphological characterization of cyanobacteria and archaea in hot water springs Mahapelessa, Sri Lanka. *Pragñā.* Vol.XIX (1); 51-59.

24. **Magana-Arachchi D.N\***. Wanigatunge R.P. Gnanakkan D.T, Jeyanandarajah P (2007) Microcystin producing *Microcystis aeruginosa* in Lake Beira, Sri Lanka. *Harmful Algae News*. <http://ioc.unesco.org/hab/news.htm> . 33; 09-10.
25. Jennifer Perera, **Magana Arachchi Dhammika** (1999) The optimum relative centrifugal force and centrifugation time for improved sensitivity of smear and culture for detection of *Mycobacterium tuberculosis* from sputum. *Transactions of the Royal Society of Tropical Medicine and Hygiene*. 93, 405 -409.

### Chapters in Books;

1. **Dhammika Magana-Arachchi** (2013). “Epidemiology of MDR-TB”; In. Bassam Mahboub and Mayank G Vats (ed). Tuberculosis- Current issues in Diagnosis and management. In Tech publishers, ISBN 978-953-51-1049-1. Chapter 11, 183-201.
2. **Dhammika Magana-Arachchi**. (2012) “Pattern of circulating *Mycobacterium tuberculosis* strains in Sri Lanka”; In Understanding Tuberculosis - Global Experiences and Innovative Approaches to the Diagnosis, ISBN 978-953-307-938-7. Chapter 24, 511-526

### PRESENTATIONS / COMMUNICATIONS AT SCIENTIFIC SESSIONS

1. Ekanayake, A., Magana-Arachchi, D., Weerasekera, D., Madegedara, D. and Dissanayake, N. 'Determination of rifampin resistance in a group of tuberculosis patients' *Annual scientific sessions of Sri Lankan Society for Microbiology*, 21<sup>st</sup> October 2016, p 25.
2. Weerasekera D, Magana-Arachchi D.\*, Pathirana H, Madegedara, D, Dissanayake N and Thevanesam V. Discriminatory power of MIRU-VNTR for differentiating *Mycobacterium tuberculosis*. *47<sup>th</sup> World Conference on Lung Health of the International Union Against Tuberculosis and Lung Disease (The Union)*. 26<sup>th</sup> -29<sup>th</sup> October 2016, Liverpool. United Kingdom. S193, PD-727-27.
3. Magana-Arachchi, D.N., Sayanthoran, S., Gunarathne, L and Abeysekera, T. Expression Profiling of Chronic Kidney Disease of Unknown Aetiology (CKDu) Patients in Sri Lanka. *14<sup>th</sup> Eurasia Conference on Chemical Sciences (EuAsC<sub>2</sub>S-14)*. 15<sup>th</sup> -18<sup>th</sup> December 2016, Karachi, Pakistan. Session Lecture, p 96.
4. Sayanthoran, S., Magana-Arachchi, D.N., Sooriyapathirana, S.D.S.S., Gunarathne, L., Abeysekera, T. 'Analysis of blood transcriptome in early stage chronic kidney disease of unknown aetiology (CKDu)' Proceedings of the Postgraduate Institute of Science Research Congress, Postgraduate Institute of Science, University of Peradeniya, Peradeniya, 7 - 8 October 2016;p. 90.
5. Sayanthoran, S.; Magana-Arachchi, D. N.; Gunarathne, L.; Abeysekera, T. 'Microarray analysis in Chronic Kidney Disease of Unknown Aetiology (CKDu) patients: Personalizing Diagnosis and Treatment.' *National Science Foundation (NSF) Research Summit 2016: Empowered by Research and Innovation*, Sri Lanka; 2016.
6. Amarasekara, R. W. K., Magana-Arachchi, D. N, Mayurawansa W.R.A.S., Samaraweera, P., Vithanage, M. Variation of airborne bacterial community during a week day in Kandy city: A preliminary study, Proceedings of the Postgraduate Institute of Science Research Congress, Postgraduate Institute of Science, University of Peradeniya, Peradeniya, 7 - 8 October 2016,p-86
7. Amarasekara R.W.K., Samaraweera P, Vithanage M, Magana-Arachchi D.N\*. Airborne microbes in particulate matter in Kandy, Sri Lanka. Air that we breathe -2016, Sixth National Symposium on Air Resource Management in Sri Lanka. Air resource Management Centre (AirMAC), Ministry of Mahaweli Development & Environment; 5<sup>th</sup> & 6<sup>th</sup> May 2016, p 39-40.
8. Weerasundera L, Magana-Arachchi D., Vithanage M. Biomonitoring of Heavy metals using Lichens as bio indicators in Kandy city limits & suburbs. Air that we breathe -2016, Sixth National Symposium on Air Resource Management in Sri Lanka. Air resource Management Centre (AirMAC), Ministry of Mahaweli Development & Environment; 5<sup>th</sup> & 6<sup>th</sup> May 2016, p35-36.
9. Priyadarshika, E.G.C.K. and **Magana-Arachchi, D.N.\*** Determination of correlation between apoptosis and toxin release in the cyanobacterium *Microcystis aeruginosa*. *Challenges Ahead: Water Quality and Human Health*; 5<sup>th</sup> & 6<sup>th</sup> August 2016, p 10.

10. S. Sayanthooran, D. N. Magana-Arachchi\*; L. Gunarathne; T. Abeysekera; S.D.S.S. Sooriyapathirana, Analysis of Blood Transcriptome in Patients with Chronic Kidney Disease of Uncertain Aetiology. 1<sup>st</sup> International Conference on BioScience and Biotechnology – 2016, The International Institute of Knowledge Management, Sri Lanka; 01/2016
11. Keerthirathne, T. P., Magana-Arachchi, D. N.\*, Sooriyapathirana, S. D. S. S., Madegedara R. M. D., Real time PCR assay for the differentiation of Mycobacterial species in Bronchial washings. 1<sup>st</sup> International Conference on BioScience and Biotechnology – 2016, The International Institute of Knowledge Management, Sri Lanka; 01/2016
12. Sayanthooran, S., Magana-Arachchi, D. N., Gunarathne, L., Abeysekera, T. (2015) Gene Expression Profiles of Peripheral Blood to Understand Pathophysiology of Chronic Kidney Disease of Unknown Aetiology. 2<sup>nd</sup> International Conference on Advances in Medical Sciences (ICAMS 2015) organized by the Faculty of Medicine, Universiti Kebangsaan Malaysia (UKM), 14-16<sup>th</sup> April 2015, p. 22. Paper ID O33.
13. S. Sayanthooran, D. N. Magana-Arachchi\*, S.D.S.S. Sooriyapathirana, L. Gunarathne, T. Abeysekera. Kidney Injury and Repair Related Gene Expression in Blood of Chronic Kidney Disease Patients with Unknown Aetiology. Postgraduate Institute of Science Research Congress 2015, Sri Lanka, Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka; 10/2015, p. 94.
14. D. Weerasekera, D. Magana-Arachchi \*, D. Madegedara, N. Dissanayake, V. Thevanesam. Major circulating *Mycobacterium tuberculosis* strains and their genetic diversity in three population groups in the Central Province, Sri Lanka -2nd International Conference on Advances in Medical Sciences (ICAMS), Kuala Lumpur, Malaysia; 04/2015. Pg 39. (Published in Research Updates in Medical Sciences Journal. E-ISSN:2289-2141)
15. T.P. Keerthirathne, D.N. Magana-Arachchi\*, R.M.D. Madegedara, S.D.S. S. Sooriyapathirana, Molecular identification of non-tuberculous Mycobacteria (NTM) present in Bronchial washings via SYBR green mediated multiplex, Real-Time PCR. Postgraduate Institute of Science Research Congress 2015, Sri Lanka, Postgraduate Institute of Science, University of Peradeniya, Peradeniya, Sri Lanka; 10/2015, p. 86.
16. T.P. Keerthirathne, D.N. Magana-Arachchi\*, S.D.S.S. Sooriyapathirana, R. M. D. Madegedara, Molecular identification and drug resistant patterns of non-tuberculous Mycobacteria (NTM) present in bronchial washings, Annual Scientific Sessions of the Sri Lankan Society for Microbiology (SSM) 2015, 10/2015, p. 14.
17. H. M. Liyanage. D.N. **Magana Arachchi\*** and E.G.C.K. Priyadarshika. Presence of potential toxin producing cyanobacteria in well waters of the Girandurukotte, CKDu endemic area in Sri Lanka, Fourth International Symposium on Water Quality and Human Health: Challenges Ahead, 2015. Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka. P49. 08/2015.
18. R.P. Wanigatunge, S.A. Kulasooriya, and D.N. Magana-Arachchi\*. Removal of cyanobacterial cells and microcystin in water using extracts of *Moringa oleifera* seeds. Fourth International Symposium on Water Quality and Human Health: Challenges Ahead. Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka. P.28. 08/2015.
19. H. M. Liyanage, D. N. Magana-Arachchi, N. V. Chandrasekharan and S. A. Kulasooriya. Detection and quantification of cylindrospermopsin in water reservoirs of Sri Lanka using high performance liquid chromatography (HPLC). *Third International Symposium on Water Quality and Human Health: Challenges Ahead*. 27-28<sup>th</sup> June **2014**, p-25.
20. Wanigatunge, R.P.; Magana-Arachchi, D.N.; Chandrasekharan, N.V. Molecular characterization of potential microcystin-producing cyanobacteria in selected fresh water sources of Sri Lanka. *Proceedings of the Wayamba University International Conference*. WinC. 29<sup>th</sup>-30<sup>th</sup> August **2014**, p. 284.
21. Sayanthooran, S.; Magana-Arachchi, D. N.; Sooriyapathirana, S. D. S. S.; Abeysekera, T.; Gunarathne, L. (2014) Environmentally Influenced Gene Expression in Chronic Kidney Disease Patients of the Dry Zone of Sri Lanka. *Peradeniya University International Research Sessions (iPURSE)*. 4-5<sup>th</sup> July **2014**. Vol.18, p. 342.
22. Weerasekera, D. K.; Magana-Arachchi, D. N.; Madegedara, R. M. D. (2014). Sensitive identification of mycobacterial species using PCR-RFLP on bronchial washings – 2<sup>nd</sup> International symposium of The Sri Lanka Academy of Young Scientists (SLAYS) in partnership with National Institute of Fundamental Studies. (NIFS) and Coordinating Secretariat for Science , Technology and Innovation (COSTI). 13-14<sup>th</sup> November **2014**, p. 32

23. Sayanthoran, S.; Magana-Arachchi, D. N.; Sooriyapathirana, S. D. S. S.; Abeysekera, T.; Gunarathne, L. (2014) Oxidative Stress Markers in Chronic Kidney Disease: Gene Expression Analysis in a Sri Lankan Population. *2<sup>nd</sup> International symposium of The Sri Lanka Academy of Young Scientists (SLAYS) in partnership with National Institute of Fundamental Studies (NIFS) and Coordinating Secretariat for Science , Technology and Innovation (COSTI)*, 13-14<sup>th</sup> November **2014**, p. 31.
24. Weerasekera, D. K.; Magana-Arachchi, D. N.; Madegedara, R. M. D.; Dissanayake, N. L.A.; Thevanesam, V. Identification and characterization of pre-dominant *Mycobacterium tuberculosis* strains in Kandy using MIRU-VNTR typing – *Annual Scientific Sessions of the Sri Lankan Society for Microbiology (SSM)* 24<sup>th</sup> October **2014**, p. 30.
25. Keerthiratne, T.; Weerasekera, D. K.; Magana-Arachchi, D. N.; Dissanayake, N. L. A. Identification of a Non-tuberculous mycobacterium (NTM) belonging to *Mycobacterium chelonae- Mycobacterium abscessus* (MCAG) using SYBR green mediated real-time PCR – *Annual Scientific Sessions of the Sri Lankan Society for Microbiology (SSM)* ,24<sup>th</sup> October **2014**, p. 29.
26. Kumara, Y. H. P. S. N.; Salgado, M. A.; Weerasekera, D. K.; Nishananthan, K.; Ranasinghe, K.K.U.S.; Pushpakumara, P. G. A.; De Silva, L. N. A.; Magana-Arachchi, D. N.; Jinadasa, R. N.; Alexander, P. A. B. D.; Amarasinghe, A. A. A. W. K. (2014). A case of bovine tuberculosis in a buffalo herd in Sri Lanka – *Annual Scientific Sessions of the Sri Lanka Veterinary Association*, 20<sup>th</sup> June **2014**, p 6.
27. Kumara, Y. H. P. S. N.; Salgado, M. A.; Nishananthan, K.; Weerasekera, D. K.; Magana-Arachchi, D.N.; Pushpakumara, P. G. A.; De Silva, L. N. A.; Alexander, P. A. B. D.; Jinadasa, R.N.; Amarasinghe, A. A. A. W. K. (2014). Detection of bovine tuberculosis in Sri Lanka using molecular techniques – *Proceedings of the One Health International Conference*, 5-6<sup>th</sup> September **2014**, University of Peradeniya, Sri Lanka. Pg 24.
28. Wanigatunge, R. P, Magana-Arachchi D. N. and Chandrasekaran N.V (2013). Determination of microcystin producing ability of cyanobacteria using PCR assays: a potential risk factor for human health. *2<sup>nd</sup> Annual Conference and Scientific Sessions of Sri Lankan Society for Microbiology (SSM)-2013*. 25<sup>th</sup> October 2013. P- 20.
29. Weerasekera D. K, Magana-Arachchi D. N, Madegedara R. M. D (2013). Identification of *Mycobacterium* and *Nocardia* with PCR-RFLP assay – *2<sup>nd</sup> Annual Conference and Scientific Sessions of Sri Lankan Society for Microbiology (SSM)-2013*. 25<sup>th</sup> October 2013. P- 15.
30. R.P. Wanigatunge, D.N. Magana-Arachchi and N.V. Chandrasekharan (2013). Detection and quantification of microcystin in cultures of order Oscillatoriales cyanobacteria. *Proceedings of the Sri Lanka Association for the Advancement of Science*, 69<sup>th</sup> Annual Session, 02-06<sup>th</sup> December 2013. P 98.
31. H.M. Liyanage, D.N. Magana – Arachchi, J.P. Padmasiri, S.A. Kulasoorya and N.V Chandrasekharan (2013). Detection and quantification of Cyanotoxins; Microcystin and Cylindrospermopsin from Kurunegala water reservoirs and water sources using biochemical methods. *Proceedings of the Sri Lanka Association for the Advancement of Science*, 69<sup>th</sup> Annual Session, 02-06<sup>th</sup> December 2013. P 99.
32. R. M. D. Madegedara, D.K. Weerasekera, D. N. Magana-Arachchi (2013). Detection of Non-tuberculosis mycobacteria (NTM) in bronchoscopy specimens using molecular techniques - European Respiratory Society (ERS) Annual Congress 2013 September 7-11, 2013, Barcelona, Spain.
33. Magana-Arachchi DN, Ambalavanar V, Weerasekera D, Maheswaran S, Madegedara D, Rapid Detection of drug-resistant *Mycobacterium tuberculosis* strains using PCR assays. MMDR-4, Proceedings of 4<sup>th</sup> International Symposium-cum-Training Course on Molecular Medicine and drug research', Dr. Panjwani Center for Molecular medicine and drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Pakistan. 7<sup>th</sup> to 10<sup>th</sup> January 2013. P-38.
34. D.N. Magana-Arachchi, D. Medagedara, V. Thevanesam (2012). Detection of resistant *Mycobacterium tuberculosis* strains to isoniazid and rifampin using DNA sequencing. *Proceedings of the Kandy Society of Medicine*, 34<sup>rd</sup> Annual Academic Sessions 9-11<sup>th</sup> February 2012, p27.
35. D.N. Magana-Arachchi, D. Bandara (2012). Detection of wise gene in *Mycobacterium tuberculosis*. *Proceedings of the Kandy Society of Medicine*, 34<sup>rd</sup> Annual Academic Sessions, 9-11<sup>th</sup> February 2012, p25

36. R.P. Wanigatunge, D.N. Magana-Arachchi, N.V. Chandrasekhran (2012). Investigation of microbial diversity in thermal springs with molecular techniques. *Proceedings of the Sri Lanka Association for the Advancement of Science*, 68<sup>th</sup> Annual Session, 10-12<sup>th</sup> December 2012. p47.
37. H.M. Liyanage, D.N. Magana-Arachchi(2012).Molecular Identification of *Cylindrospermopsis* and *Cylindrospermopsis raciborskii* from Anuradhapura water reservoirs”. International symposium on water quality and Human Health, 22<sup>nd</sup> -23<sup>rd</sup> March 2012, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka. p14.
38. H.M. Liyanage, D.N. Magana-Arachchi (2012). Cyanobacteria, cyanotoxins and potential health hazards.*Proceedings of the Sri Lanka Association for the Advancement of Science*, 68<sup>th</sup> Annual Session, 10-12<sup>th</sup> December 2012. p40.
39. D.K. Weerasekera, D.N. Magana- Arachchi, R.M.D. Madegedara (2012). Detection of Non-tuberculosis Mycobacteria (NTM) with molecular typing. *Proceedings of the Sri Lanka Association for the Advancement of Science*, 68<sup>th</sup> Annual Session, 10-12<sup>th</sup> December 2012. p2.
40. S. Maheswaran, D.N. Magana- Arachchi, R.M.D. Madegedara (2012). Identification of mutants associated with drug resistant *Mycobacterium tuberculosis* strains by molecular methods. *Proceedings of the Sri Lanka Association for the Advancement of Science*, 68<sup>th</sup> Annual Session, 10-12<sup>th</sup> December 2012. p5.
41. D.M.D.P.K. Bandara, D.N. Magana-Arachchi (2012).. Detection of uterine sensitization associated gene-1 or WISE Gene in *Mycobacterium tuberculosis*. *Proceedings of the Sri Lanka Association for the Advancement of Science*, 68<sup>th</sup> Annual Session, 10-12<sup>th</sup> December 2012. p4.
42. **Dhammika Magana-Arachchi**. Molecular Medicine for Disease Diagnosis; emphasis on tuberculosis (2012). Proceedings of the ICRMM 2012. International Conference on Recent Trends in Molecular Medicine. Sree Buddha College of Engineering, Pattoor, Kerala, India. 23<sup>rd</sup> - 24<sup>th</sup> February 2012. P 5-6.
43. R.P. Wanigatunge and **D.N. Magana-Arachchi\*** (2011). **Application of molecular techniques for the detection of potentially microcystin-producing cyanobacteria in** Kondawatuwana reservoir in Ampara. Proceedings of the Sri Lanka Association for the Advancement of Science. 67<sup>th</sup> Annual Session. p.51.
44. H.M. Liyanage, **D.N. Magana–Arachchi**and S.A. Kulasoorya (2011). Detection and quantification of Cyanotoxin; Cylindrospermopsin from Girandurukotte water reservoirs and water sources using a biochemical method. Proceedings of the Sri Lanka Association for the Advancement of Science. 67<sup>th</sup> Annual Session.p.50.
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