

Curriculum Vitae

Missaka P B Wijayagunawardane BVSc, PhD, FSLCVS

Senior Professor and Chair

Department of Animal Science

University of Peradeniya, 20400

Sri Lanka



Personal Data

I am conducting multidisciplinary research which includes Animal Gynecology and Biotechnology, Sri Lankan Indigenous Veterinary Medicine, Conservation and Characterization of Elephants, and Mitigation of Human Elephant Conflict, Environment Toxins Effecting Reproductive Performances, and Diagnosis and Remedies for Various Clinical Disorders. I was able to secure funds for my research activities through 18 competitive research grants from Local and international organizations, These activities resulted 58 peer reviewed journals including 52 in SCI journals, 08 Books/Chapter of Books, 09 Popular Articles, 09 Keynotes/Invited Presentations, more than 100 presentations in learned societies (Local and foreign). My research publications have received h-index of 22 (As January 2021) with 1608 citations (Link for Google Scholar: <https://scholar.google.com/citations?user=BR7eETkAAAAJ&hl=e>).

For my research activities, I was awarded the "Australian Alumni Excellence-Endeavor" Award in 2014, "Young Scientist of Sri Lanka" in the year 2008, Presidential Research Awards by HE the President of Sri Lanka for 07 years. I was also awarded the Best Presentation/Research Paper in several national and international conferences. Further, I was awarded Research Fellowships/awards from several countries, including Japan Society for the Promotion of Science 4 times (JSPS; Oct to Dec 2015, Nov to Dec 2009, June to July 2007, September 2002 to September 2004), Alexander von Humboldt Foundation, Germany 2 times (June 2011 to Oct 2013 and Sept 2017 to Nov 2017), Fulbright-USA (April to June 2008), Endeavour Award, Australia (July to Nov 2010), Royal Society, UK (Oct to Dec 2006).

I am actively participating in building up an international research community as a Editorial Board Member of 09 high ranking journals, reviewer and advisory board member for several reputed SCI Journals. I have served as a key member in organizing national/international conferences/workshops and by giving several keynotes at national/international conferences. I also served as a resources person in popularizing science and technology. I am the Founder Director of Sri Lanka Japan Study Centre, of which the objective is to promote collaborative research between Japan and Sri Lanka (SLJSC Web; <http://www.pdn.ac.lk/centers/sljsc/index.php>), University of Peradeniya, and was instrumental to organize the conference on Sri Lanka Japan Collaborative Research (SLJCR) in every year (SLJCR-2013; Web <http://www.pdn.ac.lk/centers/sljsc/sljcr2013/>, SLJCR-2014 Web; <http://www.pdn.ac.lk/ic/sljcr/2014/> SLJCR-2015 Web: <http://www.pdn.ac.lk/ic/sljcr/index/2015/index.php> SLJCR-2016 <http://www.pdn.ac.lk/ic/sljcr/2016/>) I am also serving as the founder Secretary General of Sri Lanka Association of Alexander von Humboldt Fellows (SL-AvH) and promoting the research collaboration with Germany. I also served as the Australia Award Ambassador of Sri Lanka in 2015 to promote the studies with Australian universities. I am a Founder Fellow of Sri Lanka College of Veterinary Surgeons (FSLCVS), and have been involved in several nationally important research and development projects. In 2018, I was appointed as a Research Council member and in 2019 as a member of Board of Governors of National Institute of Fundamental studies by his excellency the president of Sri Lanka.

Full Name Missaka Priyadarshana Bandara WIJAYAGUNAWARDANE
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Date of birth 2nd October 1964
Nationality Sri Lanka
Marital Status Married
Residential Address 32/1, Guildford Crescent, Colombo 07
C-81, University Housing, Meewathura, Kandy
Official address Department of Animal Science, University of Peradeniya.
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Education & Employments

February 2014 to date **Senior Professor in Animal Science, University of Peradeniya.**
Peradeniya 20400, Sri Lanka
Feb 2006 to Jan 2014 **Professor in Animal Science, University of Peradeniya.**
Peradeniya 20400, Sri Lanka
July 2010 to Dec 2010 **Fellow Professor,** Department of Zoology,
The University of Melbourne, VIC 3010, Australia
April 2008 to July 2008 **Visiting Professor,** Department of Biomedical Sciences,
College of Veterinary Medicine, **Cornell University,**
Ithaca, NY 14853, USA
August 1988 to Feb 2006 **Lecturer/Senior Lecturer** in Animal Science,
University of Peradeniya. Peradeniya 20400, Sri Lanka
April 1995 - March 1999 **Doctor of philosophy in Veterinary Science. (PhD)**
Gifu United Graduate School of Veterinary Medicine,
Obihiro University of Agriculture & Veterinary Medicine,
Japan
August 1982 - March 1988 **Bachelor of Veterinary Science. (BVSc.)**
Second Class Hon (Upper Division) pass
Faculty of Veterinary Medicine & Animal Science,
University of Peradeniya. Peradeniya 20400, Sri Lanka

Professional Memberships: **Registered Veterinary Practitioner:** Since 1989
Sri Lankan Veterinary Council (Reg. No. 611)
Founder Fellow- Sri Lanka College of Veterinary Surgeons
(FSLCVS), October 2015

Administrative experiences **August 2006 to July 2009 Head of Department**
Department of Animal Science,
University of Peradeniya. Peradeniya 20400, Sri Lanka
Sept 2013 to 2016; Founder Director, Sri Lanka-Japan Study Center
(SLJSC), University of Peradeniya, Peradeniya 20400, Sri Lanka
Australia Award Ambassador of Sri Lanka 2015
Research Council Member (2018) and a **Member of Board of Governors**
(2019) -National Institute of Fundamental studies, Hantana Rd, Kandy.

Fellowships, Honors and Awards

Sept 2017 to Nov 2017	Alexander von Humboldt Foundation Return Fellowship , Germany: Institute of Anatomy, Hannover University of Veterinary Medicine Bischofsholer Damm 15, 30173 Hannover, Germany
2015	Endeavour Awards Ambassador of Sri Lanka 2015 Appointed by the the Australian Government at the ceremony organized by Australian High Commission, New Delhi on 18 Feburary 2015, New Delhi, India
Oct to Dec 2015	Japan Society for the Promotion of Science (JSPS) Invited Fellowship Faculty of Veterinary Medicine, Yamaguchi University Japan.
2014	Australian Alumni Excellence Award 2014 for Australia Awards-Endeavour from the Australian Government at an award Ceremony organized by Australian Trade commission on 22 February 2014 at Taj Samudra Hotel, Colombo
June 2011 to Oct 2013	Georg Forster Fellowship for Experienced Researchers , Alexander von Humboldt Foundation, Germany: Institute of Anatomy, Hannover University of Veterinary Medicine Bischofsholer Damm 15,30173 Hannover, Germany
July to Nov 2010	Endeavour Executive Award , Department of Education, Employment and Workplace Relations of the Australian Government: Department of Zoology, The University of Melbourne, VIC 3010, Australia
Nov to Dec 2009	Japan Society for the Promotion of Science (JSPS) Invited Fellowship Graduate School of Animal and Food Hygiene, Obihiro University of Agriculture and Veterinary Medicine, Japan.
May 2009	Best presentation in Reproduction and breeding session, Sri Lanka Veterinary Association (SLVA) Annual Scientific sessions 2009.
2008	Award for Excellence in Scientific Research . Young Scientists Forum, National science and technology Commission, Ministry of Science and technology, Republic of Sri Lanka
2008	Presidential Awards for Scientific Research . The President of the Republic of Sri Lanka.
April to June 2008	US Fulbright Advanced Research and Lectureship award : Department of Biomedical Sciences, College of Veterinary Medicine, Cornell University, Ithaca, NY, USA
2007	Presidential Awards for Scientific Research . The President of the Republic of Sri Lanka.
June to July 2007	Japan Society for the Promotion of Science (JSPS) Invited Fellowship Graduate School of Animal and Food Hygiene, Obihiro University of Agriculture and Veterinary Medicine, Japan.
2006	Presidential Awards for Scientific Research . The President of the Republic of Sri Lanka.
Oct to Dec 2006	Royal Society Short Visit Fellowship , Academic Unit of Reproductive and Developmental Medicine, University of Sheffield, Sheffield, UK.
2005	Presidential Awards for Scientific Research . The President of the Republic of Sri Lanka.

May 2005	Best presentation in Livestock Production and Management session, Sri Lanka Veterinary Association (SLVA) Annual Scientific sessions 2005
2004	Presidential Awards for Scientific Research. The President of the Republic of Sri Lanka.
September 2003	Outstanding Presentation Award Japanese Society of Animal Reproduction (JSAR), Japan.
2003	Presidential Awards for Scientific Research. The President of the Republic of Sri Lanka.
September 2002 to September 2004:	Japan Society for the Promotion of Science (JSPS) Special Postdoctoral Fellowship , Department of Agricultural and Life Sciences, Obihiro University of Agriculture and Veterinary Medicine, Japan.
May 2002	Best communication of Production and Reproduction session, Sri Lankan Veterinary Association (SLVA) Sri Lanka
1999	Presidential Awards for Scientific Research. The President of the Republic of Sri Lanka.
September 1998	Best poster presentation, Societies for Endocrinology , UK.

Memberships in Editorial Boards

2013 to date	Editorial Board Member: International Journal of Modern Biological Research. http:// www.bluepenjournals.org/ijmbr
2013 to date	Editorial Board Member: Journal of Zoo Biology https://esciencepress.net/journals/index.php/JZB/about/editorialTeam
2011 to date	Regional Editor: International Journal of Animal and Veterinary Advances, www.maxwellsci.com/jp/j2p.php?jid=IJAVA
2014 to date	Editorial Board Member: Austin Journal of In vitro Fertilization. http://austinpublis hinggroup.com/invitro-fertilization/editorialBoard.php
2015 to date	Editorial Board Member Sri Lanka Veterinary Journal; Official Journal of Sri Lanka Veterinary Association-2018-2020 https://slvj.sjoi.info/about/editorialboard/
2015 to 2018	Editorial Board Member Ceylon Journal of Science, University of Peradeniya- 2017-2019
2015 to date	Editorial Board Member American Journal of Medical and Biological Research http://www.sciepub.com/journal/AJMBR/editors
2015 to date	Regional Editor Mathews Journal of Veterinary Science http://www.mathewsopenaccess.com/veterinary-science-editorial-board.html
2016	Editorial Committee Member Peradeniya University International Research Sessions (iPURSE)

I am also serving as an **Add-Hog Reviewer** of the Journals covered in ISI-online database and current content

- 2002 to date **Reproductive Biology and Endocrinology (RB&E):**
- 2002 to date **Journal of Reproduction and Development (JRD)**
- 2002 to date **Theriogenology**
- 2009 to date **The European Journal of Pharmacology**

2012 to date **Archives Animal Breeding**
2013 to date **The Journal of Veterinary Medical Science**
2013 to date **Reproduction in Domestic Animals**

Memberships in Professional Societies

2014 to date Founder Secretary General of **Sri Lanka Association of Alexander von Humboldt Fellows (SL-AvH)**
2014 to date Member; Sri Lanka Association of Australia Awards Alumni (SLAAAA)
Committee member 2015
2010 to date Director Sri Lanka Operations, **A Future with Elephants (AFWE)**
<http://www.afuturewiththelephants.org>
2003 to date Member: **Society for the Study of Reproduction (SSR)** USA
2003 to date Member: **Japanese Society for the Study of Reproduction (JSSR)**, Japan
2008 to date Member: **Senior Scientific Forum**, National Science and Technology Commission of Sri Lanka,
Since 1999 Life Member: **Sri Lanka Association for Animal Production (SLAAP)**,
President: 2005/2006, 2006/2007.
Since 1999 Life Member: **Sri Lanka Association for Advancement of Science (SLAAS)**
1999 to 2008 Member: **Young Scientific Forum**, National Science and Technology Commission of Sri Lanka,
Since 1988 Life Member: **Sri Lanka Veterinary Association (SLVA)**
Vice President: 2001/2002, 2006/2007. Committee member 2018/2019

National Level Activities

2009 to date Technical Consultant: **Pussala Farms (Pvt.) Ltd.**, Sri Lanka
2008 to date Technical Consultant: **Improving swine artificial insemination in Sri Lanka**
Department of Animal Production and Health, Ministry of Livestock development, Government of Sri Lanka.
2006 to date Technical Consultant: **Maxi's Group of Companies**, Sri Lanka
2002/2003 **Member of the Agriculture Sector Monitoring Committee**, Appointed by Monitoring and Progress Review division of Ministry of Policy development and Implementation, Government of Sri Lanka.
2001/2002 **Member of the National Consultative Committee for the preparation of the first report on the State of the World's Animal genetic Resources**
Appointed by Department of Animal Production and Health, Ministry of Agriculture, Government of Sri Lanka.
1999/2000 **Member of the Committee to improve productivity of Browsing Goats in Sri Lanka** Appointed by Department of Animal Production and Health, Ministry of Agriculture, Government of Sri Lanka.
2002 **Member of the team of consultants to develop wildlife sanctuary in Angammadella.** Appointed by Department of Wildlife Conservation, Ministry of environment, Government of Sri Lanka.

Books/Chapter of Books Published/ Editorial works

Indigenous Family Medicine (Athbeheth; In Sihhala), First Edition (2010),
ISBN=978-955-99388-3-0, Nethvin Printers, Peradeniya, Sri Lanka, pp 122.

- Reproductive Physiology of the Cow**- First Edition, (2005)
ISBN=95599338-0-9 Nethvin Printers, Peradeniya, Sri Lanka, pp 96
- Farm Animal Diseases, Control and Prevention** (In Sinhala), First Edition (2005),
ISBN=95599338-1-7 Nethvin Printers, Peradeniya, Sri Lanka, pp 84
- Indigenous Elephant Medicine** (In Sinhala), First Edition (2004)
ISBN=955-99338-2-5 Nethvin Printers, Peradeniya, Sri Lanka, pp 83
- Editor, Swine Industry in Sri Lanka: Farmers Handbook (2002):**
 Published by Sri Lanka Association of Animal production
- Effective Reproduction in Swine** (In Sinhala): (2002)
 In: (ED) M P B Wijayagunawardane; Swine Industry in Sri Lanka:
 Farmers handbook Chapter 5: pp12-18
- Editor, A/L Agriculture syllabus: Animal Science Module Handbook for Teachers/ Students**
 (2005): *ISBN Number: 955-8004-01-1*
 Published by Sri Lanka Association of Animal Production

Popular Articles

- January 2011 **“Endeavour Alumni in Focus”**: Professor Missaka Wijayagunawardane” Australia Awards Magazine p 6-7
- November 2010- **Recently approved research application at the Animal Ethics Committee Taronga Conservation Society, Australia.** Newsletter “Zoo and Aquarium Association” Australia
- 4 March 2009 **“Animal Science and Fisheries New Degree Programme”** (in Sinhala)
 “Vidusara” Sri Lanka Sinhala weekly news paper
- 28 March 2006 **“Consuming Eggs and Chicken are safe”** (in Sinhala)
 “Vidusara” Sri Lanka Sinhala weekly news paper
- 26 February 2006 **“Chicken sales declined due to the Bird Flu in India”**. However, not be afraid of consuming chicken and chicken products (in Sinhala)
 “Lakbima” Sri Lanka Sinhala daily news paper
- 12 February, 2006 **“Sri Lanka is free from Bird Flu”** (in Sinhala)
 “Lakbima” Sri Lanka Sinhala daily news paper
- 18 September, 2005 **“Bird flu”** (in Sinhala)
 “Lankadeepa” (“Govibima”) Sri Lanka Sinhala daily news paper
- 17 October, 2005 **“Japanese Encephalitis”** (in Sinhala)
 “Lankadeepa” (“Suwasevana”) Sri Lanka Sinhala daily news paper
- 12 November, 2005 **“Farm Hygiene”** (in Sinhala)
 “Lankadeepa” (“Govibima”) Sri Lanka Sinhala daily news paper
- 10 December, 2005 **“Clean Milk Production & Mastitis Control”** (in Sinhala)
 “Lankadeepa” (“Govibima”) Sri Lanka Sinhala daily news paper

Media presentation

- Brains Matter**: The Podcast on Science, Curiosities, and General Knowledge. **Episode 126**; Prof Missaka Wijayagunawardane The Sri Lankan Asian Elephant October 2nd, 2010 at 01:45. <http://www.brainsmatter.com/?p=300>

Research interests

Reproductive endocrinology and biotechnology in the female- The role of endocrine/paracrine/autocrine factors in the regulation of optimal environment for sperm transport and capacitation, oocyte pickup, final maturation and transport, fertilization, early embryonic development and passage. Cross-talk between gamete/embryo and oviduct. Corpus luteum formation and regression. Follicular selection, growth, maturation and degeneration. Farm animal reproductive management and disorders. Effect of endocrine disruptive chemicals on fertility and early embryo development and overall reproductive performances.

Traditional Indigenous Veterinary Medicine in Sri Lanka- Conservation and Improvement of scientific knowledge, Identify and purify the active ingredient/s responsible for the therapeutic effects observed, and the identification of new compounds and discovery of a new drugs to be used as treatments.

Conservation and Characterization of the Sri Lanka elephant- Establishment of a database on blood profiles of estrous-cycle-dependended hormones in Sri Lankan elephants to develop a reliable technique to breed the females at the time of maximum fertility. Mitigation of human-elephant conflict, reduces elephant deaths using various sound deterrents to avoid the elephants reaching the human settlements. Identify the status of elephants inhabitant to different area of the Sri Lanka, and to characterize (Phenotypically and genetically) in order to understand the population structure, to provide a better understanding on conservation strategies of this highly endangered Sri Lankan elephants.

Research Grants Received

- 2015 **Japan Society for the Promotion of Science Invitation Fellowship** (Grant No. S 15098, JPY 2,210,000.00). Effect of Selenium on the Prevalence of Reproductive Disorders in the National Dairy Herd of Sri Lanka (**Fellowship Holder**).
- 2015-2017 **National Research Council of Sri Lanka** (Grant No NRC 15-096, Rs 4,990,000.00) Sri Lankan Indigenous Herbal Recipes for Treatment of Liver Cirrhosis: Investigation of active compounds present and Identification of Herbal Recipes, (**Principal Investigator**)
- 2014-2019 **National Research Council of Sri Lanka Target oriented mega projects** (Grant No NRC TO 14-10, Rs.44, 086,100.00). Improving dairy industry to achieve self-sufficiency in milk. (**Principal Investigator**)
- 2013-2016 **National Research Council of Sri Lanka**, Competitive Research (Grant No. 13-59, Rs. 7.8 Million) “Effect of endocrine disrupting fungicide “Mancozeb” (metal ethylene-bis-dithiocarbamate) on human endometrial receptivity and fertility”. (**Co-Investigator**)
- 2013-2016 **Peradeniya University Research Competitive Research Grant -2013** (Grant No. RG/AF/2013/04/Ag, Rs. 2 Million). Investigation of the warning vocalizations and behaviour of Asian elephants to the sound of the Sri Lanka Hornet and other elephant vocalizations. (**Co-Investigator**)
- 2013-2015 **University of Peradeniya, Sri Lanka, Competitive Research Grant -2013**. (Grant No. RG/AF/2013/05/Ag, Rs. 2 Million) “Effect/s of the Endocrine Disruptor Bisphenol A (BPA) on the Oviductal Proteome and Secretome (**Co-Investigator**)

- 2013-2014 **International Foundation for Science (IFS), Sweden, Competitive Research Grants -2013.** (Grant No: B/5367-1, US\$ 12,000).“Effect of endocrine disruptor mancozeb on oviductal/fallopian tube physiology” **(Co-Investigator).**
- 2011 to 2014 **National Research Council of Sri Lanka Competitive Research Grants** (Grant No NRC 11-198, Rs 3,975,000.00) Effect of the Presence of Gamete/embryo on the Modulation of Secretory Proteome in the Cow: Alteration by the Heat Stress. **(Principal Investigator)**
- 2011-2013 **Alexander von Humboldt Foundation, Germany** (Grant No. 3-2-SRI/1139085 STP, Euro 55,000) Effect of the Presence of Gamete/embryo on the Modulation of Secretory Proteome in the Cow: Alteration by the Heat Stress” **(Fellowship Holder).**
- 2010 **Endeavour Executive Award,** (Grant No. 1901-2010, A\$35,342) Department of Education, Employment and Workplace Relations, The Australian Government. The Mitigation of Human-Elephant Conflict in Sri Lanka with the use of Hornet and Elephant Vocalisations **(Fellowship Holder).**
- 2009 **Japan Society for the Promotion of Science Invitation Fellowship** (Grant No. S-09208, JPY 2,210,000.00). Growth Hormone Insulin-Like Growth Factor (GH/IGF) Axis in the Bovine Oviduct: Effect of Negative Energy Balance (NEB) **(Fellowship Holder).**
- 2005 to 2008 **National Research Council of Sri Lanka Competitive Research Grants** (Grant No NRC 05-26, Rs 2,773,359.00). Local regulation of cow oviductal environment: Cross-talk with gametes and early embryo. **(Principal Investigator)**
- 2006 to 2009 **National Science Foundation of Sri Lanka Competitive Research Grants** (Grant No. RG/2006/EB/03, Rs 4,204,450.00) Research study to predict ovulation from behavioural and physical changes in Sri Lankan elephants (*Elephas maximus maximus*). **(Principal Investigator)**
- 2008 **Fulbright commission, USA** (Grant No. 68431173, US\$ 10,350.00. Determine the effect of preovulatory hormonal changes on the physiological state of sperm bound to oviductal epithelium **(Fellowship Holder).**
- 2007 **Japan Society for the Promotion of Science Invitation Fellowship** (Grant No. S-07129, JPY 2,210,000.00). Gamete-oviduct interaction on the modulation of the oviductal microenvironment: Effect of the heat stress **(Fellowship Holder).**
- 2006 **The Royal Society, UK** (Short visit 2006/R2, GBP 4500.00). Sperm-Oviduct Interaction: Effect of periovulatory hormonal changes **(Fellowship Holder).**
- 2002 to 2004 **Japan Society for the Promotion of Science, Japan Special Fellowship for Foreign Researches** (Grant No P 02227, JPY 5,500,000/=) Regulatory mechanism of ovarian function in the cow: A cross-talk by local factors controlling angiogenesis and vascular tonus **(Fellowship Holder).**
- 1999 to 2002 **National Research Council of Sri Lanka Competitive Research Grants** (Grant No NRC 99-28, Rs 1,216,600.00) Interaction of endocrine, paracrine and autocrine mechanisms in the control of local oviductal function in buffaloes: Investigation by in vitro and in vivo microdialysis system **(Principal Investigator).**

Postgraduate supervision

- 1) **Ms D.I. Jayarathna**, MSc- 2 years duration Postgraduate Institute of Science, (PGIs), University of Peradeniya. Completed in 2008, Principal supervisor
- 2) **Dr. S.G.N.T.De Silva**, Mphil- Postgraduate Institute of Agriculture (PGIA), University of Peradeniya Completed in 2010, under National Science Foundation Research Grant No. RG/2006/EB/03 Principal supervisor.
- 3) **Dr. W.M.S.W.Hulugalla**- Mphil- Postgraduate Institute of Agriculture (PGIA), University of Peradeniya Completed in 2010 Co-supervisor.
- 4) **Dr (Ms) Komathy.Maheswaran** MSc- 2 years duration Postgraduate Institute of Agriculture (PGIA), University of Peradeniya. Completed in 2010. Principal supervisor
- 5) **Dr (Ms) A.H.L.M.Aluthwatta**, MSc-2 years duration Postgraduate Institute of Agriculture (PGIA), University of Peradeniya Completed in 2010. Principal supervisor
- 6) **Mr C.J.Samarasinghe**, MSc - 2 years duration Postgraduate Institute of Agriculture (PGIA), University of Peradeniya Completed in 2010. Principal supervisor
- 7) **Dr K.G.S.K. Senarathna** MSc- 2 years duration. Postgraduate Institute of Agriculture (PGIA), University of Peradeniya. Completed in 2011. Principal supervisor
- 8) **Dr R.I. Thilakarathne**, MSc - 2 years duration. Postgraduate Institute of Agriculture (PGIA), University of Peradeniya. Completed in 2012. Principal supervisor
- 9) **Dr (Ms) K.B.M.Nishany**, MSc - 2 years duration Postgraduate Institute of Agriculture (PGIA), University of Peradeniya Completed in 2013, under National Science Foundation Research Grant No. RG/2006/EB/03 Principal supervisor
- 10) **Dr (Ms) N.G.I. Silva**, MSc - 2 years duration Postgraduate Institute of Agriculture (PGIA), University of Peradeniya Completed in 2013 Principal supervisor
- 11) **Dr (Ms) A. Amunugama**, MSc- 2 years duration Postgraduate Institute of Agriculture (PGIA), University of Peradeniya. Completed in 2013 Principal supervisor
- 12) **RMAS Bandara** Mphil Postgraduate Institute of Agriculture (PGIA), University of Peradeniya Completed in 2013. Co- supervisor
- 13) **Dr (Ms) NA Salgadu** Mphil Higher degree committee, Faculty of Veterinary medicine, University of Peradeniya Completed in 2016 Under National Research Council Grant NRC to 14 -10 Principal supervisor
- 14) **Ms. HNGP Herath** Mphil Postgraduate Institute of Agriculture (PGIA), University of Peradeniya. Completed in 2017 Under National Research Council Grant NRC to 14 -10 Co- supervisor
- 15) **Mr. KKTN Ranaweera** PhD Postgraduate Institute of Agriculture (PGIA), University of Peradeniya. Completed in 2017 Under National Research Council Grant NRC to 14 -10 Co- supervisor
- 16) **Ms. KIM de Silva** PhD Higher degree committee, Faculty of Veterinary medicine, University of Peradeniya. Completed in 2018 Under National Research Council Grant NRC to 14 -10 Principal supervisor,
- 17) **Ms. BRS Bogahawatttha** Mphil Higher degree committee, Faculty of Veterinary medicine, University of Peradeniya. Completed in 2020 Under National Research Council Grant NRC 15-096 Principal supervisor.

Keynotes/Invited Presentations

- 1) Improve Cattle Reproductive Performances in Hot and Humid Environment **3-4 December 2021**, Proceedings of 7th International Conference on Dry Zone Agriculture (ICDA 2021) Faculty of Agriculture, University of Jaffna, Sri Lanka, 3rd and 4th December 2021

- 2) Miyamoto A and **Wijayagunawardane MPB: August 19, 2016**-Reproductive Physiology and Technology in the Cow: Over 20-year Sri Lanka – Japan Collaboration based on Mutual Challenges and Understanding. Book of Abstracts. Fourth Conference on Sri Lanka-Japan Collaborative Research, 19-21 August 2016. University of Peradeniya, Sri Lanka **P i-ii**
- 3) **Wijayagunawardane MPB: May 30-June 1 2016**- Promoting collaborative research between Sri Lanka and Japan: Role of Sri Lanka –Japan Study Centre- **Science Council of Asia (SCA-16) Annual Meeting “Science for the People: Mobilizing Modern Technologies for Sustainable Development”** . Colombo, Sri Lanka.
- 4) **Wijayagunawardane MPB: 29th to 31st March 2013**- Reproductive problems in the modern world: Where are we? **Sri Lanka-Japan Collaborative Research**, Kandy, Sri Lanka.
- 5) **Wijayagunawardane MPB: December 08, 2011**- Crosstalk of Oviduct with Gametes/Embryo in the Cow: Effect of Heat Stress. Reproduction Biologist Seminar-0384, Organized by Institute of Reproductive Biology, **University of Veterinary Medicine Hannover, Germany**
- 6) **Wijayagunawardane MPB: June 20, 2008**- **Captive Breeding of Sri Lankan Elephants and Mitigation of Human-elephant Conflict** Organized by Animal Biology Graduate Group, Department of Animal Science, **University of California-Davis, CA, USA**
- 7) **Wijayagunawardane MPB: May 22, 2008**- **Conservation of Sri Lankan Elephants: Captive Breeding Programs**. Organized by Department of Reproductive Sciences, National Zoo’s Conservation and Research Centre **Smithsonian Institute**, National Zoological Park, VA, **USA**
- 8) **Wijayagunawardane MPB: May 09, 2008**- **Sri Lankan Elephants: Reproduction, Captive Breeding Programs and Human-Elephant Conflict** Organized by Reproductive Biology Research Group, College of Veterinary Medicine. **Cornell University, NY, USA**
- 9) **Wijayagunawardane MPB: August 23, 2007**- **Endangered Sri Lankan Elephants: Let’s Save** (In Japanese). Organized by 21st Century Centre of Excellency Program, **Obihiro University of Agriculture and Veterinary Medicine**, Obihiro, **Japan**.
- 10) **Wijayagunawardane MPB: March 15, 2006**- **Bird Flu**. Organized by The Kandy Society of Medicine, Postgraduate Medical Centre, **General Hospital, Kandy, Sri Lanka**.

Scientific Publications

Link for Google Scholar: <https://scholar.google.nl/citations?hl=en&user=BR7eETkAAAAJ>
h-index 23 (As in Nov, 2022) with 1659 citations.

In Peer Reviewed Indexed Journals

- 1) Bogahawaththa BRS, Kodithuwakku SP, Wijesundara RRMKK, Siriweera EH, Jayasinghe ULB, Dissanayake WL, Herath CB, Rajapakse RPVJ and **Wijayagunawardane MPB (2021)** Leaf extracts of Heen Bovitiya (*Osbeckia octandra*) Shows Hepatoprotective and Anti-angiogenic Effects on Experimental Liver Cirrhosis. **Molecules** 2021, 26, 4836. <https://doi.org/10.3390/molecules26164836>.

- 2) Kodithuwakku SP, Akthar I, Muhandiram S, **Wijayagunawardane MPB**, Miyamoto A (2021), The growth hormone and insulin-like growth factor 1 axis in cattle during the peri-ovulatory period activates the synthesis and release of oviductal contraction related substances, **Molecular Reproduction and Development**. First published: 08 February 2021: <https://doi.org/10.1002/mrd.23458>
- 3) Okawa H., **Wijayagunawardane MPB**, Vos PLAM, Yamato O, Taniguchi M, Takagi M (2021), Effects of Intrauterine Infusion of a Chitosan Solution on Recovery and Subsequent Reproductive Performance of Early Postpartum Dairy Cows with Endometritis: A Pilot Field Trial. **Animals: 11; 197; 1-9** <https://doi.org/10.3390/ani11010197>.
- 4) Akthar I, Wang Z, **Wijayagunawardane MPB**, Athura J, Rathnayake CJ, Eranga H, Siriweera EH, Lee KF and, Kodithuwakku SP. (2020). In vitro and in vivo impairment of embryo implantation by commonly used fungicide Mancozeb, **Biochemical and Biophysical Research Communication: 527; 42-48**.
- 5) Okawa, H, Goto, A, **Wijayagunawardane, MPB**, Vos, Plam, Yamato, O., Taniguchi, M, Takagi, M. (2019) Risk factors associated with reproductive performance in Japanese dairy cows: Vaginal discharge with flecks of pus or calving abnormality extend time to pregnancy. **J Vet Med Sci 81 (1) 95-99**
- 6) Toda K, Uno S, Kokushi E, Shiiba A, Hasunuma H, Matsumoto D, Ohtani M, Yamato O, Shinya U, **Wijayagunawardane MPB**, Fink-Gremmels J, Taniguchi M and Takagi M (2018). Fructo-Oligosaccharide (DFA III) Feed Supplementation for Mitigation of Mycotoxin Exposure in Cattle-Clinical Evaluation by a Urinary Zearalenone Monitoring System **Toxins, 10(6), 223; 1-10**
- 7) Ono T, Takagi M, Kawashima C, **Wijayagunawardane MPB**, Vos PLAM, Taniguchi M, Tanihara F and Otoi T (2018) Comparative Effects of Different Dosages of hCG on Follicular Development in Postpartum Dairy Cows With Cystic Ovarian Follicles. **Front. Vet. Sci. 5:130; 1-6**.
- 8) Toda K, Kokushi E, Uno S, Shiiba A, Hasunuma H, Fushimi Y, **Wijayagunawardane MPB**, Zhang C, Yamato O, Taniguchi M, Fink-Gremmels J and Takagi M (2017). Gas Chromatography-Mass Spectrometry for Metabolite Profiling of Japanese Black Cattle Naturally Contaminated with Zearalenone and Sterigmatocystin. **Toxins 9, 294; 2-13**
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