

CURRICULUM VITAE

Suranga P. Kodithuwakku, PhD.

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01. General Information

Mailing addresses:

Department of Animal Science
Faculty of Agriculture
University of Peradeniya (UoP)
Peradeniya 20400
Sri Lanka

Occupation: Professor (Full)

Date of Birth: 06-06-1978

Nationality : Sri Lankan

Gender: Male

Civil Status: Married

02. Educational Qualifications

- **PhD in Reproductive Biology / Obstetrics & Gynaecology - 2011**
August 2007 to November 2011
Department of Obstetrics and Gynecology, LKS Faculty of Medicine,
The University of Hong Kong, Hong Kong SAR
Thesis Title: “Olfactomedin-1 (Olfm-1) in Human Endometrium and Fallopian Tube: its
Roles on Endometrial Receptivity and Tubal Ectopic Pregnancy”
Thesis grade: Outstanding
Supervisors: Professor W S B Yeung AND Associate Prof. Calvin Kai-Fai Lee
- **Research Student**
August 2003 to September 2004
Obihiro University of Agriculture and Veterinary Medicine, Hokkaido, JAPAN.
The Laboratory of Animal Reproductive Physiology and Functions
From 01st October 2003 to 31st September 2004
Supervisors: Professor Akio Miyamoto and Professor M P B Wijayagunawardhana
- **Bachelor of Science in Agriculture with Honours {B.Sc. (Agr.)Hon.}**
Specialized in Animal Science ,January 2000 to March 2004 (final year was completed in Japan
as a research student)
2nd class upper division. Majoring module: Animal Science. *FGPA 3.73/4.0 - 2004*

03. Academic & Research Experiences

Academic appointments

- **Senior Research Fellow – ERA Chair COMBVET, Estonian University of Life Science, 2021 December to date**

Institute of Veterinary Medicine and Animal Science, EMU, Tartu , Estonia

Responsibilities: Conducting research on comparative and translational medicine, animal physiology and pathophysiology, extracellular vesicles, supervising graduate students, administration/managing of research funds, acquiring research funds

- **Research Associate – University of Hong Kong, October 2019 to January 2021**

Department of Obstetrics and Gynaecology, Faculty of Medicine, The University of Hong Kong.

Responsibilities: Conducting research on reproductive biology / endometrial biology / reproductive toxicology and mentoring the graduate students.

- **Professor - Department of Animal Science, University of Peradeniya, Sri Lanka. From August 2020 to date (at present on sabbatical leave)**

Responsibilities: Teaching, examinations setting and evaluation of following subjects in the undergraduates. Teaching and mentoring/supervision of postgraduate students, administration/managing of research funds, acquiring research funds. Managing a research laboratory

- **Senior Lecturer: Faculty of Agriculture, University of Peradeniya, Sri Lanka. From November 2011 to 2020**

Responsibilities: Teaching, examinations setting and evaluation of undergraduate students. Teaching and supervision & mentoring of postgraduate students, administration/managing of research funds, acquiring research funds

- **Visiting Lecturer: Postgraduate Institute of Agriculture (PGIA) & Postgraduate Institute of Science (PGIS), University of Peradeniya, Sri Lanka**

More than eight years of experience as a senior lecturer in teaching, examinations setting and evaluation in following subjects and supervising the research work of masters' and PhD students, administration/managing of research funds, acquiring research funds at the PGIA from November 2011 to date and PGIS from 2017 to date.

- **Lecturer: from July 2006 to November 2011 (official PhD study leave from August 2007 to August 2011)**

Department of Animal Science, Faculty of Agriculture, University of Peradeniya, Sri Lanka.

Responsibilities: Conducting field practicum and laboratory practicum components to undergraduates and evaluation of practicum reports. Conducting research related to reproductive biology and molecular biology.

- **Temporary Lecturer: from October 2004 to July 2006**

Department of Animal Science, Faculty of Agriculture, University of Peradeniya, Sri Lanka.

Responsibilities: Conducting field practicum and laboratory practicum components to undergraduates and evaluation of practicum reports.

Teaching Experience

I have been teaching and evaluating students at both undergraduate and postgraduate courses listed below for more than ten years.

Undergraduate Teaching

- AS 1101 Animal Biochemistry
- ASF 1102 Anatomy and Physiology of Farm Animals
- ASF 1202 Analytical Techniques in Animal Feed and Products
- AS 2101 Anatomy, Physiology and Health Management of Farm Animals
- AS 3203 Applied Animal Physiology
- AS 4105 Scientific Writing and Communication in Animal Science
- AS 4106 Animal Biotechnology

○ **Laboratory-in-charge / Principal Investigator:** Animal Physiology & Animal Biotechnology Laboratories, Department of Animal Science, University of Peradeniya, Sri Lanka.
Conducting research and supervising research students.

Postgraduate Teaching in PGIA and PGIS, University of Peradeniya :

I have been teaching and evaluating postgraduate students in taught programmes in the course listed below.

- AS 5102 Comparative Anatomy and Physiology of Farm Animals
- AS5120 Endocrinology of Farm Animals
- AS 5126 Quantitative and Molecular Genetics of Farm Animals
- AS 5128 Reproductive Physiology of Farm Animals
- AS 5151 Biochemical Genetics and Cytogenetic
- AS 5136 Introduction to Molecular Biology in Animal Science
- AS 5197 Proposal Formulation and Scientific Writing
- AS 5133 Fish Biotechnology
- AS 5202 Animal Biotechnology
- AS 5264 Cell Biology in Animal Science
- AB 5106 Exploring the Genome : Principles and Techniques
- AB 5122 Gene Manipulation
- AB 5125 Protein Engineering
- AB 5222 Gene Expression & Developmental Genetics
- BM 516 Human Molecular Genetics

Contributions to the development new degree programmes & courses.

Bachelor of Science Honours in Animal Science and Fisheries (BSc in AS & F) – 04 years curriculum

I have introduced two new courses and actively involved in revising few other existing courses indicated below.

New Courses introduced:

a) Undergraduate course

1. Cell and Molecular Biology in Animal Science

Since molecular and cell biology principles are needed and very sought after for any natural science discipline, I introduced this new course to the BSc. AS & F curriculum and pending the approval.

2. Laboratory Animal Production (together with a colleague of the department).

Laboratory animal use and handling are becoming a very sought-after skill in today's research and development industry and higher education. Therefore, I was instrumental to introduce this new course to the curriculum which is pending the approval.

(b) Postgraduate courses

After returning from PhD at the University of Hong Kong, I was instrumental to introduced two unique courses to the Board of Study in Animal Science, in Postgraduate Institute of Agriculture (PGIA) and also involved in revising the course capsules/contents of few other courses listed below in year 2013.

New courses

01. Introduction to Molecular Biology in Animal Science (AS 5136)

The Board of Study in Crop Science has been offering postgraduate programmes (M.Sc., M.Phil. and Ph.D.) with four main study programmes. i.e., Animal Science, Dairy and Meat Science, Poultry Science and Aquaculture and Fisheries. Since molecular biology knowledge is an essential in current research and development in natural sciences, giving special emphasis to Animal Science discipline, this course was introduced by myself and offered to the students.

02. Cell Biology in Animal Science (AS 5264)

Cell biology is an essential primary knowledge in the research and development in Animal Science and allied sciences. Therefore, to strengthen the M.Sc. programmes of the BoS Animal Science, this course was formulated by myself and offered to the students at PGIA.

Honorary and Visiting Academic Appointments

- o Visiting Scholar, Department of Biochemistry, Faculty of Agriculture, Saga University, Japan - 20th to 27th January 2020.

- o Honorary Research Associate –University of Hong Kong, Mar 2018 to August 2018
Department of Obstetrics and Gynaecology, Faculty of Medicine, University of Hong Kong.
Responsibilities: Conducting research on endocrine disruptors on female reproductive functions and mentoring the graduate students.

Other academic related experiences/trainings

- Advance Molecular Applications in Reproductive Biology, Frontiers in Reproduction (FIR) , Marine Biological Laboratory (MBL), Wood Hole, Massachusetts, USA. (March to July 2014).
- Training on chromatography techniques (HPLC/FPLC/UPLC and MS) and Mass spectrometry (MALDI-ToF-MS/MS) - Waters India Private Limited, Bangalore, India - 6th to 10th March 2016
- Certificate on laboratory safety and radioactive waste handling. The Safety Office, University of Hong Kong, Hong Kong
- Training on Teaching Methodologies. Staff Development Centre, University of Peradeniya.
- Training of trainers as a resource person at the Staff Development Centre, University of Peradeniya from year 2013 to date
- Well experienced in designing, planning, procurements procedures, commissioning and standard operation practices development of molecular & cellular biology, microbiology and reproductive biology laboratories.

03. Prizes, Awards and Scholarships

- Titular Fellowship – Association of Commonwealth Universities, UK (July 2018 to September 2018).

- Full Scholarship from Marine Biological Laboratory & Burroughs Welcome Fund, MA USA to follow Frontiers in Reproduction 2014 at MBL, USA.
- Overseas Special Training Programme (OSTP) fellowship from National Science Foundation of Sri Lanka -2014.
- Sri Lanka President's Awards for Scientific Publications in Indexed Journals in the years of; 2005, 2007, 2010, 2011, 2012 and 2015
- National Research Council of Sri Lanka merit award for the scientific publication in the year 2013.
- A.A. Appadurai memorial scholarship for the best performances in all courses in Animal Science up to end of 4100 series. University of Peradeniya, Sri Lanka
- Upali Ekanayake memorial scholarship for the Entomology, University of Peradeniya, Sri Lanka
- Christopher de Serum Siriwardena Scholarship for the best performances in Farm Practice Course in 2002 with the GPA of 4.00. University of Peradeniya, Sri Lanka
- Awarded a Japanese government scholarship to carry out research as a special auditor in Obihiro University, Japan for one year. Obihiro University of Agric. & Vet. Medicine, Japan
- Awarded a competitive travel grant by international Society for Study of Reproduction (SSR) to present a paper at 37th annual meeting of SSR at the University of British Columbia, Vancouver, Canada, 2004.
- Awarded a travel grant by the British Andrology Society (BAS) to present a paper at annual meeting of BAS at University of Sheffield, UK, 2005
- Best research presentation award in the Animal Production and Reproduction Session at the 57th Annual Scientific Sessions of the Sri Lanka Veterinary Association 2005
- Postgraduate Research Studentship 2007 -2011: Faculty of Medicine, The University of Hong Kong.

04. Research grants and other grants (completed & on-going)

1. Baltic-German University Liaison Office, Latvia. "Impact of extracellular vesicles present in uterine fluid of cows with endometritis on in vitro embryo development". EUR 7000. Principal Investigator /Project Manager
2. Estonian University of Life Sciences, Estonia." Baseline funding for supporting the activities related to the project "Mesenchymal Stem Cells Derived Extracellular Vesicles Based Targeted Therapy for Bovine Endometritis". EUR 50000.2023-2024. Principal Investigator
3. Chinese Academy of Science. Profiling of the polycyclic aromatic hydrocarbons (PAH) in a cohort of couples undergoing assisted reproductive technology in Hong Kong and impact assessment of PAH on semen quality, endometrial receptivity, embryo implantation and IVF outcomes: A pilot study". RMB 50000. 2021-2022. Principal Investigator
4. Ferring Pharmaceutical COVID-19 Investigational Grants in Reproductive Medicine and Maternal Health on "Role of ACE and ACE2 inhibitors on embryo implantation: in vitro spheroid-endometrial co-culture studies". Euro 20,000. Co-Investigator. Completed
5. World Bank AHED- ELTA/ELSE Grant to the Faculty of Agriculture, University of Peradeniya. SL Rs. 120 million (US\$ 960,000). Section Writer and Coordinator of the Activity 1 on establishing "Skill Laboratory" for Molecular, Microbiological and Analytical Skills Development in undergraduate students of the Faculty of Agriculture University of Peradeniya, Sri Lanka (2019-2022).
6. A special grant from Department of Agriculture, Sri Lanka. Molecular Identification of Fall Armyworm (*Spodoptera frugiperda*) to support in correct identification of Fall Armyworm. (2019). SL Rs.0.5 million (US\$ 4,000). Principal Investigator. Completed

7. Ministry of Mahaweli Development and Environment. “National Survey on Persistent Organic Pollutants in Breast Milk Giving Special Reference to Dioxins in Breast Milk in a Sri Lankan Cohort” (2019-2020) . SL Rs 1.0 Million (US\$ 7,100). Co-investigator. 2019-2021
8. HDES Extracts Pvt. Ltd., Sri Lanka – University of Peradeniya Industry Partnership Grant (2019). SLRs. 8 million (US\$ 64,000). “Value Addition of Ceylon Cinnamon Extracts and Bark Wastes”. Principal Investigator. 2019-2021
9. University of Peradeniya, Sri Lanka, Competitive Research Grant -2018. “Monitoring, Analysing and Modelling of Ambient Air Quality (AAQ) in Kandy City, Sri Lanka”. URG/2017/28/E . SL Rs. 0.5 Million (US\$ 4,000) . Co-Investigator. 2018-2019. Completed
10. University of Peradeniya, Sri Lanka, Competitive Research Grant -2018.. “Development of Rapid Molecular Diagnosis Method to Detect Newcastle Disease Virus in Sri Lanka ”. URG/2017/56/V . SL Rs. 0.5 Million (US\$ 4,000). Co-Investigator. 2018-2019. Completed
11. University of Peradeniya, Sri Lanka, Competitive Research Grant -2018. “Profiling of Antimicrobial resistance (AMR) planktonic and biofilm associated E. Coli isolated from Commercial Layer Chicken Farms in Kurunegala District of Sri Lanka”. URG/2017/58/V. SL Rs. 0.5 Million (US\$ 4,000). Co-Investigator. 2018-2020. Completed
12. University of Peradeniya, Sri Lanka, Competitive Research Grant -2018. . “Evaluation of Antimicrobial Effects of Ceylon Cinnamon (*Cinnamomum zylanicum*) essential oils on oral biofilms”. URG/2017/21/D. SL Rs. 1.15 Million (US\$ 9,200) Co-Investigator. 2018-2020
13. University of Peradeniya, Sri Lanka, Competitive Research Grant -2018.. “The Effects of Heen Bovitya (*Osbeckia octandra*) leaf extract on major liver fibrosis associated protein expression and regulation in a cirrhotic rat model”. URG/2017/Ag/03 SL Rs. 1 Million (US\$ 8,000). Principal Investigator. 2018-2019. Completed
14. University of Hong Kong, Hong Kong, Seed Funds For Basic Research (2017). “Mechanistic study of endocrine disrupting chemical Mancozeb (Manganese ethylene bis dithiocarbamate) on implantation”. HK\$ 66,490 (SLRs. 1.4 million). Co-Investigator. Completed.
15. National Science Foundation, Sri Lanka. Health Science Special Grant Programme 2017. “Novel biomarkers of breast cancer predictive of therapeutic and prognostic value in pre-menopausal and post-menopausal women”. SLRs. 8.00 million (US\$ 64,000). Co- Investigator. 2017-2020.
16. National Science Foundation, Sri Lanka. Health Science Special Grant Programme 2017. “Establishment of Molecular Biomarkers Based Detection Tools for Early Screening of Human Papillomavirus (HPV) Infection and Association of HPV in Pathophysiology of Cervical Cancer in Sri Lankan Women”. SLRs. 8.0 million (US\$ 64,000). Co- Investigator. 2017-2021.
17. National Science Foundation of Sri Lanka. Competitive Research Equipment Grants 2016. For Inverted Florescence Microscope with Imaging System. SL Rs. 4.6 Million (US\$ 36,000). Principal Investigator. Completed
18. Vehicle Emission Test Trust Fund, Sri Lanka. Special Grant. “Monitoring Kandy City Air Quality” (Theme:” Health effects of Particle matters found in Kandy Air”). SLRs. 16.5 million (US\$ 130,000). Co-Investigator/ Theme leader. Completed
19. National Research Council of Sri Lanka Competitive “Target Oriented Mega Research Grant” 2014.NCR TO 14-10. “Self Sufficiency in Milk Production in Sri Lanka”. SL Rs. 50 Million (US\$ 450,000) . Theme Leader: Improvement of Reproductive Efficiency in Dairy Cattle. Completed
20. National Science Foundation of Sri Lanka Competitive Research Grant 2014 . Grant No. RG/2014/HS/06. “ Effects of Endocrine Disruptor Mancozeb on Oviduct/Fallopian Tube Proteome and Secretome” . SL Rs. 1.3 million. (US\$ 11,000) Principal Investigator. Completed
21. University of Peradeniya, Sri Lanka, Competitive Research Grant -2013. “Effect/s of the Endocrine Disruptor Bisphenol A (BPA) on the Oviductal Proteome and Secretome”. SL Rs. 2 million. (US\$ 16,000). Grant No. RG/AF/2013/05/Ag. Principal Investigator. Completed

22. National Research Council of Sri Lanka, Competitive Research Grant -2013. Grant No. 13-59. “Effect of endocrine disrupting fungicide “Mancozeb” (metal ethylene-bis-dithiocarbamate) on human endometrial receptivity and fertility”. SL Rs. 7.8 million (US\$ 63,000) Principal Investigator. Completed
23. International Foundation for Science (IFS), Sweden, Competitive Research Grant -2013. Grant No: B/5367-1. “Effect of endocrine disruptor mancozeb on oviductal/fallopian tube physiology”. SL Rs. 1.5 million (US\$ 12,000). Principal Investigator. Completed

05. Publications

Journal Articles

- Johanna Piibor , Andres Waldmann , Keerthie Dissanayake , Aneta Andronowska , Marilin Ivask , Madhusa Prasadani , Ants Kavak , **Suranga Kodithuwakku** , Alireza Fazeli.(2023). Uterine fluid extracellular vesicles proteome is altered during the oestrous cycle. *Molecular & Cellular Proteomics*. In press. <https://doi.org/10.1016/j.mcpro.2023.100642>
- Sudarma Bogahawaththa, Tomoaki Kawamura, Udari Bandaranayake, Tomoaki Hirakawa, Goki Yamada, Hana Ishino, Tsuzumi Hirohashi, Shin-ichi Kawaguchi, Kavindra K Wijesundera, Missaka PB Wijayagunawardane, Kanji Ishimaru, **Suranga P Kodithuwakku**, Tadayuki Tsujita. (2023) Identification and mechanistic investigation of ellagitannins from *Osbeckia octandra* that attenuate liver fibrosis via the TGF- β /SMAD signalling pathway. *Bioscience, Biotechnology, and Biochemistry*, zbad114. <https://doi.org/10.1093/bbb/zbad114>
- Subhashini Muhandiram, Keerthie Dissanayake ,Toomos Orro , Kasun Godakumara, **Suranga Kodithuwakku** and Alireza Fazeli .(2023). Secretory Proteomic Responses of Endometrial Epithelial Cells to Trophoblast-Derived Extracellular Vesicles. *Int. J. Mol. Sci.* 2023, 24(15), 11924; <https://doi.org/10.3390/ijms241511924>
- Luhan Jiang, Sudini Fernando, **Suranga Kodithuwakku**, Dandan Cao, William S. B. Yeung, Kai-Fai Lee (2023). Stromal cell decidualization and embryo implantation: a vulnerable step leading to successful pregnancy. *Reproductive and Developmental Medicine* (2023) XXX:XXX. In press. <http://dx.doi.org/10.1097/RD9.0000000000000076>
- Suranga P. Kodithuwakku**, Ernest H. Y. Ng, William S. B. Yeung, Kai-Fai Lee (2023). An update on hormonal regulation of early embryo-fallopian tube interactions: insights for improvements of assisted reproduction technology outcomes. *Reproductive and Developmental Medicine* (2023) XXX:XXX. In press. <http://dx.doi.org/10.1097/RD9.0000000000000074>
- S Qi, **SP Kodithuwakku**, RTK Pang, PCN Chiu, MHY Tang, KF Lee (2023). Role of MicroRNAs in Embryo–Endometrial Interactions: Biological Functions and Clinical Applications. *Reproductive and Developmental Medicine* (2023) XXX:XXX. *In press*. <http://dx.doi.org/10.1097/RD9.0000000000000073>
- MC Gihan, **SP Kodithuwakku**, RNG Rajapakshe (2022). Clomiphene Citrate versus Letrozole in the Treatment of Anovulatory Infertility: A Randomized Controlled Trial. *Sri Lanka Journal of Medicine*, 31(1), pp.3–10.

- Li, X., **Kodithuwakku, S.P.**, Chan, R.W.S. William S. B. Yeung, Yuanqing Yao, Ernest H. Y. Ng, Philip C. N. Chiu & Cheuk-Lun Lee (2022). Three-dimensional culture models of human endometrium for studying trophoblast-endometrium interaction during implantation. *Reprod Biol Endocrinol* 20, 120 (2022).
- Kasun Godakumara, Keerthie Dissanayake, Mohammad Mehedi Hasan, **Suranga P Kodithuwakku**, Alireza Fazeli (2022). Role of extracellular vesicles in intercellular communication during reproduction. *Reprod Dom Anim.* 2022;00:1–8.
- Sudini R.Fernando, Xian Chen, Kiu-Wai Cheng, Benancy PC Wong, Shiwen Qi, Luhan Jiang, **Suranga P. Kodithuwakku**, Ernest HY Ng, William SB Yeung, Kai-Fai Lee (2022). ACE inhibitors on ACE1, ACE2, and TMPRSS2 expression and spheroid attachment on human endometrial Ishikawa cells. *Reproductive Biology* 22 (3), 100666
- M. H. M. M. T. Maddegoda, P. M. Korale-Gedera , **S. P. Kodithuwakku**, N. Nayanathara (2022) Financial viability of commercial dairy farms established under the third phase of the dairy-cattle importation project in Sri Lanka. *Sri Lanka Journal of Economic Research*, 9(2), pp.3–19.
- Nirodha Abayalath, Indeepra Malshani, Rajitha Ariyaratne, Shizhen Zhao, Guangcai Zhong, Gan Zhang, Aruna Manipura, Anoma Siribaddana, Parakrama Karunaratne, **Suranga P. Kodithuwakkua** (2022). Characterization of airborne PAHs and metals associated with PM10 fractions collected from an urban area of Sri Lanka and the impact on airway epithelial cells. *Chemosphere.* 286, Part 2, January 2022, 131741. **Corresponding author*
- Hongjie Fan, Sudini R. Fernando, Luhan Jiang, Ziyi Wang, **Suranga P Kodithuwakku**, Chris KC Wong, Ernest HY Ng, William SB Yeung, Kai-Fai Lee. (2021). Bisphenol A Analogues Suppress Spheroid Attachment on Human Endometrial Epithelial Cells through Modulation of Steroid Hormone Receptors Signaling Pathway. *Cells* 2021, 10(11), 2882.
- A.M.M.U. Adikari, Hasitha Priyashantha, J.N.K. Disanayaka D.V. Jayatileka, **S.P. Kodithuwakku**, J.A.M.S. Jayatilake, J.K. Vidanarachchi. (2021) Isolation, identification and characterization of Lactobacillus species diversity from Meekiri: traditional fermented buffalo milk gels in Sri Lanka. *Heylion.* Volume 7, Issue 10, October 2021, e08136.
- Sudarma Bogahawaththa, **Suranga P. Kodithuwakku**, Kavindra K. Wijesundera, Eranga H. Siriweera, Lalith Jayasinghe, Waruna L. Dissanayaka, Jayanthe Rajapakse, Chandana B. Herath, Tadayuki Tsujita and Missaka P. B. Wijayagunawardane . (2021). Anti-Fibrotic and Anti-Angiogenic Activities of *Osbeckia octandra* Leaf Extracts in Thioacetamide-Induced Experimental Liver Cirrhosis. *Molecules* 2021,26, 483.
- C. Kodithuwakku, Y.G.M. Prasadani, M.P.B. Wijayagunawardane, C. Rathnayake, K.F. Lee and S.P. **Kodithuwakku** (2021). Functional Impairment of Bovine Spermatozoa by Fungicide Mancozeb: an in vitro Exposure Study. *Tropical Agricultural Research* 32(3):368. **Corresponding author*
- Ishani Dinisri, Sandarenu Kodikara, Madhusa Prasadani, Indunil Pathirana, Chathura Rathnayake, Basil Alexander, Kai-Fai Lee, **Suranga Pradeep Kodithuwakku** (2021). Impairment of caprine oocyte maturation in vitro and alteration of granulosa cells functions by widely used fungicide mancozeb. *Tropical Animal Health and Production.* 53 (3), 1-8. ** Corresponding author*

TSP Jayaweera, HAD Ruwandeepika, VK Deekshit, JK Vidanarachchi, **SP Kodithuwakku**, I Karunasagar, HW Cyril (2021). Prevalence of Salmonella Pathogenesis Island (SPI1, SPI2, SPI3 and SPI5) Genes in Salmonella species Isolated from fresh Broiler Chicken Meat in Sri Lanka. The Journal of Agricultural Sciences - Sri Lanka. Vol. 16, No. 2, May 2021. Pp 333-351.

Suranga P Kodithuwakku, Ihsan Akthar, Subhashini Muhandiram, Missaka P B Wijayagunawardhana and Akio Miyamoto. (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. Mol Reprod Dev. 2021 Mar;88(3):201-210.

Amarasinghe A. A. P. B. N., Muhandiram M. R. S., **Kodithuwakku S. P**, Thilakumara I.P. and Jayatilake J. A. M. S. (2021). Identification, genotyping and invasive enzyme production of oral Candida species from denture induced stomatitis patients and healthy carriers. Journal of Oral and Maxillofacial Surgery, Medicine and Pathology. Volume 33, Issue 4, July 2021, Pages 467-474. *Corresponding author

Lalith Suriyagoda, Anoma Janaki Mohotti, Janak K. Vidanarachchi, **Suranga P. Kodithuwakku**, Madushani Chathurika, Pradeepa C.G. Bandaranayake, Alistair M. Hetherington and Chalinda K. Beneragama. (2021) “Ceylon cinnamon”: much more than just a spice Plants, People, Planet. Plants People Planet. 2021; 3:319–336. *Equal contribution by each author

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Hansani Ekanayake, Naalin Perera, Kanishka D. Ukuwela, Chaminda N. Walpita, **Suranga P. Kodithuwakku** and Sandun J. Perera. (2021). Cryptic species diversity and molecular diagnosis of *Channa orientalis*; an endemic freshwater fish of Sri Lanka. Mitochondrial DNA Part A 32 (3), 77-84. doi.org/10.1080/24701394.2021.1876040. *Corresponding author.

Jayaweera, T.S.P., Ruwandeepika, H.A.D., Deekshit, V.K., **Kodithuwakku, S.P.**, Cyril, H.W., Karunasagar, I. and Vidanarachchi, J.K. (2021). Biofilm Forming Ability of Broiler Chicken Meat Associated Salmonella spp. on Food Contact Surfaces. Tropical Agricultural Research, 32(1), pp.17–26.

Madhusa Prasadini, Sudarma Bogahawaththa, Rasika P. Illeperuma and **Suranga Kodithuwakku** (2021). Leaf Extract of *Osbeckia octandra* L. (Heen Bovitiya) Suppresses Human Oral Squamous Carcinoma Cells Migration and Induces Cellular DNA Damage. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology. Journal of Oral and Maxillofacial Surgery, Medicine, and Pathology. 33 (2021) 215–220. *Corresponding author.

Jayaweera, T.S.P., Ruwandeepika, H.A.D., Deekshit, V.K., Vidanarachchi, J.K., **Kodithuwakku, S.P.**, Karunasagar, I. and Cyril, H.W., (2020). Isolation and Identification of Salmonella spp. from Broiler Chicken Meat in Sri Lanka and their Antibiotic Resistance. Journal of Agricultural Sciences – Sri Lanka, 15(3), pp.395–410.

- W. P. Naalin Perera, Sandun J. Perera, Chaminda N. Walpita, **Suranga Kodithuwakku**, Lasith V. Perera and Ajith Gunawardane. (2020). Snakeheads of Sri Lanka: A Taxonomic and Biogeographic Review. *The Journal of Agricultural Sciences - Sri Lanka* Vol 15, No. 3, September, 2020. Pp 411-425.
- Dhanesha Nanayakkara, Dimanthi Jayathileke and **Suranga Kodithuwakku** (2020). Development of a SNP-based DNA marker for Fall Army worm biotyping: A case study from the fall armyworm outbreak in Sri Lanka. *The Canadian Entomologist* 152 (6), 762-771. **Corresponding author*
- Ihshan Akthar, Ziyi Wang, Missaka P.B. Wijayagunawardane, Chathura J. Ratnayak, Eranga H. Siriweera, Kai-Fai Lee and **Suranga P. Kodithuwakku** (2020). In vitro and in vivo impairment of embryo implantation by commonly used fungicide Mancozeb. *Biochemical and Biophysical Research Communications*.527 (1):42-48. **Corresponding author*
- Subhashini Muhandiram, **Suranga Kodithuwakku**, Thusitha Karunarathna, Eranga Siriweera, Thilini Weerasinghe and Chathura Ratnayake (2019). Lack of Awareness among the Candidate Females Hinders Cervical Cancer Screening, A Cohort Study from Peradeniya and Kandy Teaching Hospitals. *Sri Lanka Journal of Medicine* 28 (2): 14-23.
- K. H. A. M. Dayananda, K. H. M. S. Herath , M. R. S. Muhandiram, H. Wickremasinghe, N. Abayalath A. Siriwardhana , and **S.P Kodithuwakku**. (2019). Assessment of Heavy Metals in the Cattle Blood from Chronic Kidney Disease of Unknown Aetiology (CKDu) Endemic And Non-Endemic Area in Sri Lanka. *Sri Lankan J. Agric. Sci.* Vol. 53 – 2019, 16 – 29. **Corresponding author*.
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- Ariyaratne R.G.R.N., Kodithuwakku S.P., Elangasinghe M.A, Manipura A., Abhayalath K.H.N. and Karunarathne D G G P (2016) Optimal Location Allocation Criteria for Air pollution Monitoring Network. The Air That We Breathe -2016, 6th national research Symposium on Air Resource management, Colombo, Sri Lanka 31p
- Z Wang, KSA Kottawatta, **SP Kodithuwakku**, CKF Lee (2016). The effect of Mancozeb on ER and Wnt / β -catenin pathway during embryo implantation *in vitro* cell model. The Hong Kong Society of Endocrinology, Metabolism and Reproduction 33rd Annual Scientific Meeting, 20 Nov, 2016, Hong Kong. P15
- Ziyi Wang, Kottawattage S.A Kottawatta, **Suranga P. Kodithuwakku**, Kai-Fai Lee (2016) The mechanistic action of fungicide Mancozeb in suppressing spheroids attachment onto Endometrial epithelial cells. P-03. HKU-QMH Assisted Reproduction Programme, 30th Anniversary Celebration Symposium.10-13, November 2016, Hong Kong and Shenzhen.
- Nirodha Abayalath, I Dinisri, A Rathnawardhane, B Alexander, M P B Wijayagunawardhane, Asgerally T Fazleabas and **Suranga P. Kodithuwakku** (2016). Bisphenol A (BPA) Impairs Oocyte Development via Suppression of Nuclear and Cytoplasmic Maturation and Reducing the Granulosa Cells Viability and Functions. Proceedings of the Peradeniya University International Research Sessions, Sri Lanka, University of Peradeniya, Sri Lanka, Volume: Vol. 20
- Tennakoon MI, Ihshan MAM, Wickramasinghe YAMS, Sooriyapathirana SDSS, Wijayagunawardhane MPB and **Kodithuwakku SP** (2016). Expression analysis of genes encoding bio-active proteins Cathepsin K and Lactoferrin in bovine milk somatic cells. Proceedings of the Wayamba University International Conference, Sri Lanka 19-20 August 2016.
- Daundasekara DMKC, Rupasinghe RK, Wickramasinghe YAMS, Sooriyapathirana SDSS, Wijayagunawardhane MPB and **Kodithuwakku SP** (2016). Evaluation of β -lactoglobulin gene polymorphism to develop a molecular marker for Sri Lankan dairy cattle breeding. Proceedings of the Wayamba University International Conference, Sri Lanka 19-20 August 2016.
- Ihshan MAM, Wijayagunawardhane MPB, Rathnayake RMCJ, Kottawatta KSA, Lee CKF and **Kodithuwakku SP** (2016). Commonly Used Fungicide “Mancozeb” Can Impair Embryo Implantation via Disrupting the Early Embryo Attachment and Decidualization. Proceedings of the Wayamba University International Conference, Sri Lanka 19-20 August 2016.
- Madhukalpani OVS, Ihshan MAM, Abhayalath N, Sooriyapathirana SDSS, Wijayagunawardhane MPB

- and **Kodithuwakku SP** (2016). Endocrine Disruptor Bisphenol-A (BPA) alters the Prostaglandins Synthesis Cascade Enzyme gene expression in Porcine Granulosa Cells in vitro. Proceedings of the Wayamba University International Conference, Sri Lanka 19-20 August 2016. P202
- Dhanushika Wijekoon, **Suranga Kodithuwakku**, Gayani Senevirathne and Madhava Meegaskumbura (2015). Death, Stunting, Delayed Metamorphosis and Malformations: Pernicious Effects of Commonly Used Fungicide “Mancozeb” on *Polypedates crusiger* Tadpoles. Proceedings of the Peradeniya University International Research Sessions, Sri Lanka, Vol. 19, 5th & 6th November 2015.
- M. A. M. Ihshan, M. P. B. Wijayagunawardana, R. M. C. J. Rathnayake and **S. P. Kodithuwakku** (2015). Effect of Mancozeb on Embryo Implantation in Mice. Proceedings of the Peradeniya Univ. International Research Sessions, Sri Lanka, Vol. 19, 5th & 6th November 2015.
- K.A.C. Krishanthe, W.W. Abegunawardana, C. Rathnayake, M.P.B. Wijayagunawardane, K.F. Lee and **S.P. Kodithuwakku** (2014). Effect of Fungicide Mancozeb on Bovine Spermatozoa. Proceedings of the Peradeniya Univ. International Research Sessions, Sri Lanka, Vol. 18, 4th & 5th July 2014.
- M.G.C.C. Vidyarthna, A.H.M.H. Dayarathna, R.D.G.J. Rajakaruna, **S.P. Kodithuwakku**, T.S. Samarakone and M.P.B. Wijayagunawardane (2014). Newly Formulated Extenders for Boar Semen Preservation. Proceedings of the Peradeniya University International Research Sessions, Sri Lanka, Vol. 18, 4th & 5th July, 2014.
- A.M.M.U. Adikari, J.A.M.S. Jayathilake, N.B. Parahitiyawa, J.K. Vidanarachchi and **K.K.S.P. Kodithuwakku** (2014). Biochemical and Physiological Characterization of *Lactobacillus spp.* Isolated from Curd (‘Meekiri’ and ‘Deekiri’). Proceedings of the Peradeniya Univ. International Research Sessions, Sri Lanka, Vol. 18, 4th & 5th July 2014.
- P.I. Rajapaksha, S.W.M.B. Dunuwille, P. Janaththani, U.S. Gunarathne, S. Hewawasam, S. Rajapakse, M.P.B. Wijayagunawardane, **S. Kodithuwakku** and S.D.S.S. Sooriyapathirana (2014). Identification of QTLs for Milk Production Traits of Dairy Cattle Breeds on Sri Lanka – A Pilot Study. Proceedings of the Peradeniya Univ. International Research Sessions, Sri Lanka, Vol. 18, 4th & 5th July, 2014.
- S.P. Kodithuwakku**, W.S.B. Yeung, P.C. Ho and K.F. Lee (2014). Activation of Canonical Wnt-Signaling Pathway, Human Chorionic Gonadotrophin and Progesterone may Predispose Fallopian Tube Epithelium to Embryo Attachment. Proceedings of the Peradeniya Univ. International Research Sessions, Sri Lanka, Vol. 18, 4th & 5th July 2014. *Platform presentation.*
- Suranga P Kodithuwakku** (2014). Effect of Endocrine Disrupting Chemical “Mancozeb” (a metal ethylene-bis-dithiocarbamate) on Fertility. *Frontiers in Reproduction*, June 14 & 15, Marine Biological Laboratory, MA, USA. *Platform presentation.*
- S.W.M.B. Dunuwille, T.N. Premachandra, P. Rajapaksha, S. Rajapakse, and S.D.S.S. Sooriyapathirana, B.C. Jayawardane, S.M.C. Himali and **S. Kodithuwakku** (2013). Development of a PCR method for the identification of adulterating beef in Sri Lankan meat market. Proceedings of the Research Symposium of the Uwa Wellassa University, December 12-13, Badulla, Sri Lanka.
- Suranga P Kodithuwakku**, Barana C Jayawardane, KBM Nishany, and Akio Miyamoto and Missaka P B wijayagunawardane (2013) Growth Hormone and Insulin Like Growth Factor-1 Axis in the Bovine Oviduct: Up Regulation During the Perioovulatory Period. Conference on Sri Lanka –Japan Collaborative Research. 29th to 31st March 2013. Kandy, Sri Lanka. *Platform presentation.*
- Suranga P. Kodithuwakku**, Yunao Liu, Calvin K. F. Lee, William S.B. Yeung and Missaka P B Wijayagunawardana. (2012). Transfer of knowledge from human endometrial receptivity studies to understand the un-explained fertility related candidate molecules in dairy cattle; Use of microarray technology and *in vitro* modelling to understand bovine embryo implantation. Proceedings of the Indo – Sri Lanka International Conference on “Agro-Biotechnology for Sustainable Development”. March 2012. Colombo, Sri Lanka. *Platform presentation.*
- Kodithuwakku SP**, Yeung WS, Ho PC, and Lee KF (2011). Olfactomedin-1 (Olfm 1) in human fallopian tube may modulate tubal ectopic pregnancy via the Wnt-signalling pathway. Annual Meeting of the

- Pacific Rim Society for Fertility and Sterility. 27th -29th May. Hong Kong. (*Platform Presentation & Finalist for the Young Investigator Award- 2011*)
- Lee KF, Liu WM, Tsang H, Cheung TY, **Kodithuwakku SP**, Yeung WS, Wong CK (2011). The endocrine disruptor TCDD modulates microRNA expression in pre-implantation mouse embryos and spheroids attachment on human endometrial epithelial cells in vitro. P.278. The society for the study of reproduction 43rd Annual Meeting, 30 July – 3 August, Milwaukee, Wisconsin, USA.
- Kodithuwakku SP**, Yeung WS, Ho PC, and Lee KF (2010). Olfactomedin1 (Olfm1) in fallopian tube may modulate tubal ectopic pregnancy in humans: Evidence from Immunohistochemistry and an in vitro coculture model. O.130. The society for the study of reproduction 43rd Annual Meeting. 30 July – 3 August, Milwaukee, Wisconsin, USA. *Platform presentation.*
- Kodithuwakku SP**, Yeung WS, Ho PC, Lee KF (2010) Suppression of Olfactomedin1 (Olfm-1) by activation of Wnt-signalling pathway modulates tubal ectopic pregnancy. O.2.07. The 15th Research Postgraduate Symposium, The University of Hong Kong . 1 & 2 Dec, Hong Kong. *Platform presentation.*
- Kodithuwakku SP**, Yeung WSB, Ho PC, Lee KF (2008). Spatiotemporal expression of Olfactomedin-1 in human fallopian tube and tubes with ectopic pregnancy. P-15. The Hong Kong Society of Endocrinology, Metabolism and Reproduction Annual Scientific Meeting, 30 Nov, Hong Kong.
- Kodithuwakku SP**, Yeung WSB, Ho PC, Lee KF (2009) In vitro modelling of tubal ectopic implantation of embryos: A study on the role of Olfactomedin 1 (Olfm1) in tubal ectopic pregnancy. P-06. The Hong Kong Society of Endocrinology, Metabolism and Reproduction Annual Scientific Meeting, 22 Nov, Hong Kong.
- Kodithuwakku SP**, Yeung WSB, Lee KF (2009) Olfactomedin 1 (Olfm1): A novel protein modulates the embryo like trophoblastic spheroids attachment to the endometrial cells in vitro. P.6.03. The 14th Research Postgraduate Symposium, HKU. 2 & 3 Dec, Hong Kong.
- Suranga P Kodithuwakku**, M.P.B. Wijayagunawardane and A. Miyamoto (2006) Luteinizing hormone stimulates angiotensin ii (Ang II) biosynthesis and secretion by the cow oviduct. Proceedings of the annual research sessions of the University of Peradeniya. 30th November 2006. 16pp. Annual Scientific Session of the University of Peradeniya (PURSE) .30th November 2005. Peradeniya, Sri Lanka. *Platform presentation.*
- Suranga P Kodithuwakku**, M.P.B. Wijayagunawardane and A. Miyamoto (2006) Insulin like growth factor –I system in the bovine oviduct: Possible role in oviductal motility. 34pp. The Sri Lanka Veterinary Journal (special issue). 58th Annual Scientific Sessions of the Sri Lanka Veterinary Association on 26-27 May, 2006. Kandy, Sri Lanka. *Platform presentation.*
- Misska P B Wijayagunawardane, **Suranga P Kodithuwakku** and Akio Miyamoto (2006) Angiotensin II system in the bovine oviduct: Involvement in local contraction and gamete transport. Proceedings of the AAAP Animal Science Congress, Busan, Korea. AAAP Animal Science Congress, BEXCO, Busan, Korea, 18-22 September 2006
- Suranga P Kodithuwakku**, M.P.B. Wijayagunawardane and A. Miyamoto (2005). Tumour necrosis factor α and Interleukin-1 β in oviductal contraction: possible involvement of gamete/embryo transport. Proceedings of the annual research sessions of the University of Peradeniya 2006. 16pp. Annual Scientific Session of the University of Peradeniya (PURSE) .10th November 2005. Peradeniya, Sri Lanka. *Platform presentation.*
- M.P.B. Wijayagunawardane, **Suranga P Kodithuwakku** and A. Miyamoto (2005). Spermatozoa mechanically up regulate the oviductal prostaglandin system in the cow. 20pp. 57th Annual Scientific Sessions of the Sri Lanka Veterinary Association on 13-14 May, 2005. Colombo, Sri Lanka
- M.P.B. Wijayagunawardane, **Suranga P Kodithuwakku** and A. Miyamoto (2005). Mediation of embryo stimulated oviductal prostaglandin production through tumor necrosis factor alpha. 17pp. .57th Annual Scientific Sessions of the Sri Lanka Veterinary Association on 13-14 May, 2005, Colombo, Sri Lanka. **Best Presentation in the session.**

Suranga P Kodithuwakku, M.P. B. Wijayagunawardane and A. Miyamoto (2005). Spermatozoa induced prostaglandin system in the bovine oviduct. Proceedings of the BAS annual meetings 2005. p06. Annual Meeting of British Andrology Society (BAS). University of Sheffield, Sheffield, UK. *Platform presentation*.

Suranga P Kodithuwakku, M.P.B. Wijayagunawardane and A. Miyamoto (2004). Vascular Endothelial Growth Factor System in regulation of bovine oviductal contractions. The Journal of Reproduction and Development. Vol.50. (Supplement):j119. 97th annual meeting of JSR at the University of Hiroshima, Hiroshima, Japan.

M.P. Wijayagunawardane, M. Hayashi, **S.P. Kodithuwakku**, M. Matsui and A. Miyamoto (2004). Embryo stimulates prostaglandin production by the bovine oviductal epithelial cells in vitro: a possible mediation by Tumor Necrosis Factor α (TNF α) Biology of Reproduction. Volume 49 (supplement). 37th annual meeting of the SSR at the University of British Columbia, Vancouver, Canada.

S.P. Kodithuwakku, M.P.B. Wijayagunawardane and A. Miyamoto (2004). Vascular endothelial growth factor (VEGF) system in the bovine oviductal contraction: a possible involvement in embryo transport. Biology of Reproduction. volume 70 (supplement): 277. 37th annual meeting of the SSR at the University of British Columbia, Vancouver, Canada.

06. Research Students Supervision (completed)

- **PhD. Research degree supervision:** 03 (two completed & one ongoing)

Student : Dr. T.S.P. Jayaweera

Institute : Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka

Title : “ISOALTION, IDENTIFICATION AND CHARACTERIZATION OF SALMONELLA ISOLATED FROM BROILER CHICKEN IN SRI LANKA”

Year : 2020

Student : P. A. C. T. Perera

Institute : Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka

Title : “EFFECT OF WATER POLLUTANTS AND EXOTIC FISH ON INDIGENOUS FISH SPECIES AT UPPER MALWATHU OYA IN ANURADHAPURA DISTRICT, SRI LANKA”

Year : 2021

Student : Naalin Perera

Degree : PhD

Institute : Higher Degrees Committee, Sabaragamuwa University of Sri Lanka

Title : “ANALYSIS OF GENETIC DIVERSITY OF CHANNA SP. IN SRI LANKA ”

Year : Research work completed, Thesis to be submitted

- **MPhil. Research degree supervision:** 07 (four completed & three ongoing)

Student : M A M Ihshan

Institute : Postgraduate Institute of Agriculture, University of Peradeniya

Title : “EFFECTS OF ENDOCRINE DISRUPTING FUNGICIDE “MANCOZEB” (ZINC AND MANGANESE SALTS OF ETHYLENE-BIS-DITHIOCARBAMATE) ON ENDOMETRIAL RECEPTIVITY AND EMBRYO IMPLANTATION”

Year : 2016

Student : A M M U Adikari
Institute : Postgraduate Institute of Science , University of Peradeniya
Title : “CHARACTERIZATION AND SOME PROBIOTIC PROPERTIES OF LACTOBACILLUS SPP. FROM CURD (‘DEEKIRI’ AND ‘MEEKIRI’) IN SRI LANKA”
Year : 2014

Student : Ms. Subhashini Muhandiram
Institute : Faculty of Medicine , University of Peradeniya
Title : “ESTABLISHMENT OF LOW COST MOLECULAR DIAGNOSTIC TOOLS FOR EARLY SCREENING OF HUMAN PAPILLOMAVIRUS INFECTION AMONG SRI LANKAN WOMEN”
Year : 2020.

Student : Ms. J. A. Hansani Sandarekaa (Reg. No. HD/2017/12)
Institute : Faculty of Medicine , University of Peradeniya
Title : “NOVEL BIOMARKERS OF BREAST CANCER PREDICTIVE OF LOCO-REGIONAL (NODAL) METASTATIC POTENTIAL AND THERAPEUTIC VALUE IN PRE MENOPAUSAL AND POST MENOPAUSAL WOMEN”
Year : 2020

Student : Ms. W M D D Suranimala (Reg. No. HD/2019/10)
Institute : Faculty of Medicine , University of Peradeniya, Sri Lanka
Title : “ESTABLISHMENT OF A MOLECULAR BASED RAPID DETECTION METHOD TO IDENTIFY GROUP B STREPTOCOCCUS INFECTION IN PREGNANT WOMEN”
Year : Research work completed. Thesis to be submitted

Student : Dr. W A M U L Abeysinghe (Reg. No. DF/PG/2017/2)
Institute : Higher Degrees Committee, Faculty of Dental Science , University of Peradeniya
Title : “SENESCENCE ASSOCIATED SECRETORY PHENOTYPE AND THE ROLE OF SENESENT FIBROBLAST IN ORAL SUBMUCOSAL FIBROBLAST”
Year : 2023

Student : N Abhayalath
Institute : University of Peradeniya , Sri Lanka
Title : “ ASSESSMENT OF AIR QUALITY AND CARCINOGENIC CAPACITY OF AIR POLLUTANTS FOUND IN KANDY CITY AREA”
Year : 2021

Student : Malshani De Silva
Institute : University of Peradeniya , Sri Lanka
Title : “ EVALUATION OF TWO GNRH BASED OVULATION SYNCHRONIZATION PROTOCOLS UNDER SRI LANKAN SETTING AND EARLY PREGNANCY DIAGNOSIS IN DAIRY COWS USING TRANSRECTAL COLOR DOPPLER ULTRASONOGRAPHY COMBINED WITH SERUM MRNA MRNA BIOMARKERS ANALYSIS”
Year : 2021

- **MSc. Directed studies supervision:** 15 completed at PGIA, University of Peradeniya, Sri Lanka

1. S Dasina, 2017 (PGIA 16180). Investigation of efficiency on artificial insemination techniques in Batticaloa District (Dry Zone), Sri Lanka
2. N Hattotuwa 2018 (2014-25). Combat heat stress in poultry: are we fully aware?
3. N Nilojika, 2016 (2011-8737). A survey on current episodes and major constraints in control of foot and mouth disease in Ampara district
4. H A H Karunathilake , 2019 (2015-112). Effects of negative energy balance on reproductive performances in postpartum dairy cows : a systematic review
5. R A A S K Renapana, 2018 (PGIA/2015/111). Evaluation of ovulation synchronization protocols for temperate dairy cows at dry zone of Sri Lanka
6. S L C A Dharmarathna, 2019 (PGIA 16383) . Comparison of two ovulation synchronization protocols in temperate cross bred cows
7. W D M Perera, 2017 (2014-405). Identification of Avian Encephalomyelitis exposure in non-vaccinated layer flocks at North Western Province of Sri Lanka using a commercial ELISA kit
8. M P G H P Keerthirathne, 2019 (PGIA 17213). Pregnancy detection in cattle: A systematic review
9. K S Wijesena , 2018 (PGIA 16375). Administration of gonadotropin releasing hormone analogues at the time of artificial insemination improves the ongoing pregnancy rate in dairy cows: A pilot study
10. H K Thilakarathna, 2018 (PGIA 16370) The effectiveness of two gonadotropin releasing hormone analogues, at the time of artificial insemination on the ongoing pregnancy rate of cows in Galigamuwa veterinary range: A preliminary study
11. W T L Fonseka, 2017 (PGIA/2016/26). Dynamics of serum insulin-like peptide 3 and testosterone concentrations in prepubertal to postpubertal male sheep
12. M H M M T Maddegoda, 2019 (PGIA 17026). Determination of cost of production of milk in commercial farms established under dairy cattle importation project
13. Y G M P Senadheera, 2019 (PGIA 16368). Evaluation of the presence of high yield potential β -lactoglobulin gene associated molecular marker in non- descriptive dairy cattle in Maha Oya veterinary range
14. W A S M Premaratne, 2019 (PGIA 16099). Circulatory Testosterone in boars: Dynamics with age, breed and cryptorchidism
15. S S Hettiarachchi , 2017 (PGIA 2015-106). Assessment of calving interval and reproductive efficiency of dairy cattle in Lankapura Veterinary Surgeon's range.

- **Final year undergraduate research:** 32 supervisions completed

07. Laboratory Developments

- From the external research grants I received, I developed a well-equipped molecular biology and biotechnology laboratory with the state of art equipment like regular PCR machine, real-time PCR (qPCR), Gel electrophoresis systems, PAGE system, gel documentation system with image capture and analysis, florescent upright microscope with digital capturing and image analysis, florescent inverted microscope with digital capturing and image analysis, Qbit fluorometer, ultra-low freezers, pharmaceutical refrigerators, centrifuges , autoclaves, laboratory furniture setting all together worth of over SL Rs. 100 million

- Under internal and but mainly from external research funding I established well equipped cell culture laboratory at the Department of Animal Science, Faculty of Agriculture. Including Class II biosafety cabinets, Cell culture incubators, Inverted microscope, centrifuges etc. worth over SL Rs. 20 million.
- Under AHEAD grant (AHEAD ELTA-ELSE development Project Faculty of Agriculture-2019 I was one of the main writers of the winning proposal and I coordinated the activity of development of skill laboratory for undergraduate students which comprise of all equipment for molecular biology, microbiology and analytical chemistry over SL Rs. 50 million.
- From year 2012, I am serving as the in-charge of the Physiology Laboratory of the Department of Animal Science, Faculty of Agriculture.
- Development of research laboratories of the Centre for Research in Oral Cancer ,Faculty of Dental Sciences, University of Peradeniya.

08. Member /Coordinator / Reviewer /Organizing Committees of Scientific Conferences/ Workshops/ Training Programme.

1. A member of the organizing committee of Peradeniya University Research Sessions (PURSE/iPURSE) -2019
2. Served as a reviewer for the Peradeniya University International Research Sessions -2017 (iPURSE 2017)
3. Served as a reviewer for the International Research Sessions University of Peradeniya -201 (iPURSE 2019)
4. A member of the Ethical Review Committee of the Faculty of Agriculture , University of Peradeniya ,Sri Lanka- 2019 to date
5. Served as a session coordinator cum organizing committee member of the Annual Congress of Postgraduate Institute of Agriculture, University of Peradeniya. 2013 - 2019
6. Served as a member of the management committee of the International Affairs Office (InAO), University of Peradeniya, Sri Lanka. This office is the responsible body to promote international research collaborations, research exchange, student exchange, international research grants activities of the university and also it over took the function of International research Center until the University research council was formed in year 2020.
7. Member of the organizing committee: One health International Conference held on 5th – 6th September 2014 , University of Peradeniya, Peradeniya ,Sri Lanka
8. Served as a organizing committee member and or session coordinator of the following Annual Congresses of the Postgraduate Institute of Agriculture, University of Peradeniya.
9. Served as an organizing committee member and a session coordinator of the Faculty of Agriculture, Undergraduate Research Symposia (FAuRS), University of Peradeniya.
10. Served as an organizing committee member of the “ 4th Conference on Sri Lanka Japan Collaborative Research (SLJCR-2016) held on 19th -20th August 2016 at Hotel Grand Kandyan, Kandy, Sri Lanka
11. Served as an organizing committee member of the “ 6th Conference on Sri Lanka Japan Collaborative Research (SLJCR-2018) held on 31st August to 1st September 2018 at Postgraduate Institute of Science, University of Peradeniya ,Sri Lanka
12. Member, One Health Initiative, University of Peradeniya, Sri Lanka - 2014. This initiative was established by the Faculty of Medicine, University of Peradeniya to expand the multidisciplinary research approach for common human diseases and other conditions.
13. Member of the Organizing Committee of the General Convocation ,University of Peradeniya, Sri Lanka - 2011,2014,2016 & 2018
14. Regular reviewer in the following scientific journals
Andrologia

Tropical Agricultural Research
Journal of Human and Experimental Toxicology
Journal of Drug and Chemical Toxicology
Access Microbiology
Journal of Current Women Health Review
Saudi Journal of Biological Science
SLCARP Journal
Ceylon Journal of Science
Biomolecules
Diagnostics
International Journal of Molecular Sciences
Frontiers in Medicine
Frontiers in Endocrinology
Chemosphere
Environment Toxicology and Pharmacology
Journal of Clinical Medicine

09. Editorial responsibilities

1. Review editor: Journal of Experimental Endocrinology
2. Review Editor: Frontiers in Obstetrics and Gynaecology
3. Guest Associate editor ; Frontiers in Endocrinology
4. Editorial Board Member (2017-2021): Hanthana Vision , The research Journal of University of Peradeniya.

10. Other Affiliations

- Visiting Lecturer: Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka. 2011 to date
- Visiting Lecturer, Postgraduate Institute of Science, University of Peradeniya, Sri Lanka. 2017 to date
- Senate Representative of Faculty Board of Agriculture, Faculty of Agriculture, University of Peradeniya. Sri Lanka. 2016-2019
- Member and Secretary to the Board of Study in Animal Science, Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka. 2016 -2019.
- Member to the Board of Study in Agriculture Biology, Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka. 2016 -2019.
- Member: Board of Study in Molecular Biology and Biochemistry. Postgraduate Institute of Science, University of Peradeniya, Sri Lanka. 2016 –2019.
- Member of the National Expert Committee on Biological Diversity. Ministry of Mahaweli Development and Environment. Sri Lanka. 2016 to date.
- Chairperson, Safety Committee, Faculty of Agriculture , University of Peradeniya, Sri Lanka
- Deputy Proctor, Faculty of Agriculture, University of Peradeniya in year 2016 & 2017.
- Member – Management Committee of the International Relations Office, University of Peradeniya. 2017 -2020.

11. Memberships

- Member- *Society for Reproduction and Fertility*
- Member - *International Society for Extracellular Vesicles*

- Member- *Baltic Society of Extracellular Vesicles*
- Member - *Society for Study of Reproduction (SSR)*
- Member- *British Andrology Society (BAS)*
- Member - *Hong Kong Society for Endocrinology, Metabolism and Reproduction*
- Life member - *Sri Lanka Association of Animal Production*
- Life member- *Agriculture Faculty Alumni Association, University of Peradeniya*

12.Extra-Curricular Activities

- Member of the college table tennis team, which won **several national championships in all islands inter-school competitions from year 1990 to 1997.**
- Captained the University of Peradeniya table tennis team in 2001 and won **inter-university championships for three consecutive years (1999, 2000 and 2001).**
- **Awarded University Colours for Sports in years 1999, 2000, 2001 and 2002.**
- Served as the **Editor for the Sports Council, University of Peradeniya 2001.**
- **Awarded Sri Lanka National University Colours** for years 1999& 2000.
- Represented the University of Peradeniya for the **National Olympic Academy Sessions, Sri Lanka in 2002.**
- Awarded a special certificate of merit for the performances at National Children's Drama Festival 1998.
- Trained as a cub-scout.

13. Referees

Dr. Calvin Kai Fai Lee

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