

CURRICULUM VITAE

Professor R.M.C DESHAPRIYA



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UNIVERSITY EDUCATION

PhD 2010	Yamaguchi University of Japan <i>Thesis: Functional Analysis of CTLA-2alpha</i>
MSc 2005	Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka <i>Thesis: Study on parasitic diseases of ornamental fish.</i>
MSc 2003	School of Food Biosciences, University of Reading, UK <i>Thesis: Study on Raw Milk Quality of Sri Lanka.</i>
BVSc 1995	Faculty of Veterinary Medicine and Animal Science, University of Peradeniya, Sri Lanka

ACADEMIC POSITIONS AND EMPLOYMENT

Head/Department of Animal Science	January2020-January 2023
Professor	December 2019 to date
Senior Lecturer Grade I (full time) Dept of Animal Science, Faculty of Agriculture University of Peradeniya Teaching for both undergraduate and postgraduate, research and outreach activities	March 2016- December2019
Visiting Lecturer Dept.of Animal and Food Science Rajarata University of Sri Lanka, Anuradhapura	March 2017
Senior Lecturer Grade II (full time) Dept of Animal Science, Faculty of Agriculture University of Peradeniya	March 2010- March 2016

Teaching for both undergraduate and postgraduate, research and outreach activities	
Visiting Lecturer Dept.of Animal and Food Science Rajarata University of Sri Lanka, Anuradhapura	June 2010
Research assistant, Dept of Veterinary Medicine, Faculty of Agriculture, Yamaguchi University, Japan	April 2007-April 2008
Teaching assistant, Dept of Veterinary Medicine, Faculty of Agriculture, Yamaguchi University, Japan	April 2006-April 2009
Lecturer, Dept.of Animal Science, Faculty of Agriculture, University of Peradeniya, Sri Lanka.	March 1997 –Feb.2010
Assistant Lecturer & Resident Veterinary Clinician Dept.of. Vet. Clinical Studies, Faculty of Vet. Medicine &Animal Science, University of Peradeniya, Sri Lanka	June1995-March 1997

SHORT TERM TRAINING/WORKSHOPS

Milking to Potential	Wageningen University, Netherlands- May 2019
Training workshop on Sexual and Gender-Based Violence	University of Peradeniya, Sept., 2018.
Training course of Agriculture and Livestock Processing for the Belt and Road Countries	Harbin University of Commerce, China, 2017
Certificate course in Lab. Animal Science	At University of Sri Jayawardenapura, Sri Lanka, 2016
Molecular Techniques in Diagnosis of Animal Diseases of Farm Animal and Poultry.	At High Security Animal Disease Laboratory, Bhopal, India
Quality control of milk during production, processing and marketing & introduction to novel technologies for dairy product diversification.	At National Dairy Research Institute, Karnal, India
National Workshop on investigating bioactive metabolites from natural sources: enzyme inhibitory studies, NMR &LC-MS interpretations.	At IFS, Kandy, Sri Lanka.
Design & Analysis of Experiments	At Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka
Teaching Methodology	At University of Peradeniya, Sri Lanka.
Basic Microbiology	At FITR- Reading University, UK
Writing for academic purpose	At British Council- Sri Lanka
Molecular Application in Microbiology	At Agriculture Biotechnology Centre, University of Peradeniya, Sri Lanka
Molecular Characterization of Animal	At Agriculture Biotechnology Centre, University of Peradeniya, Sri Lanka

Initiative workshop for policy development of veterinary ethics in Sri Lanka	At Faculty of Veterinary Medicine and Animal Science
Occupational Health Workshop	At Faculty of Medicine, University of Peradeniya.

TEACHING EXPERIENCE

Undergraduate courses	Postgraduate courses
AS3202 Dairy Technology	AS5109 Dairy Technology
AS3101 Animal product processing technology	AS 5125 Processing of Dairy Products
AS4103 Animal Health Management	AS5109 Dairy Chemistry
AS4106 Animal Biotechnology	AS5124 Procuring, Processing and Marketing of Fluid milk.
AS2101 Anatomy and Physiology of Farm Animals	AS5107 Dairy Engineering
AS3202 Dairy Product Technology	AS5259 Dairy Biotechnology
AS3203 Applied Animal Physiology	AS5260 Dairy Sanitation and Hygiene
AS4106 Animal Biotechnology	AS5299 Industrial Visits Dairy and Meat Product Technology
ASF1204 Analytical Techniques in Animal Feeds and Products	AS5105 Anatomy and physiology of fish
ASF1101 Animal Biochemistry	AS5107 Aquatic microbiology and fish biotechnology
ASF1106 Immunology	AS5110 Fish and Shrimp Health Management
ASF2102 Animal Environmental Physiology	AS5101 Aquaculture and Fisheries
ASF2103 Poultry, Cattle and Swine Diseases	AS5214 Livestock Health and Hygiene
ASF3104 Milk procurement and marketing	AS5116 Laboratory techniques in Fisheries and water quality
ASF2204 Diseases of Fin fish & Shellfish	
ASF4102 Animal Quarantine and bio-security.	

LANGUAGE SKILL

Language	Reading	Speaking	Writing	Comprehension
Sinhala	Excellent	Excellent	Excellent	Excellent
English	Excellent	Excellent	V.Good	Excellent
Japanese	Good	V.Good	Good	Good

FELLOWSHIPS/MEMBERSHIPS

- ✧ Fellow/ Sri Lanka College of Veterinary Surgeons
- ✧ Life Member/ Veterinary Alumni Association of Peradeniya University
- ✧ Life Member/Alumni association of University of Peradeniya.
- ✧ Member/ Sri Lanka Veterinary Association
- ✧ Life Member/ Sri Lanka Association for Advancement of Science
- ✧ Life Member/Sri Lanka Association of Animal Production
- ✧ Member/University Teachers Association, Sri Lanka
- ✧ Registered Veterinary Surgeon in Sri Lanka Veterinary Council (Reg.no 819)

- ✧ Member/ International Society of Dairy Technology (U.K).
- ✧ Member/ Japanese Society of Biochemistry
- ✧ Member/ International Proteolysis Society
- ✧ Member/ Sri Lanka College of Veterinary Surgeon
- ✧ Life Member/ Sri Lanka Society of Laboratory Animal Science

CONTRIBUTION TO THE FACULTY/ ACDEMIC GROUPS AND RESPONSIBILITIES/ POSITIONS

- ✧ Head/Department of Animal Science, Faculty of Agriculture-2020-2023
- ✧ Chairman/Board of Study in Animal Science, Postgraduate Institute of Agriculture 2022-2025
- ✧ Vice president/ Sri Lanka College of Veterinary Surgeons-2021-2023
- ✧ Treasurer/ Veterinary Alumni Association of Peradeniya University-2019/2020
- ✧ Assistant Secretary/ Sri Lanka College of Veterinary Surgeon
- ✧ Member/ Student Resident Committee- University of Peradeniya.-2018-2019
- ✧ Assistant Secretary/ Sri Lanka Veterinary Association- year2015
- ✧ Treasurer/Sri Lanka Veterinary Association- years 2010 and 2016
- ✧ Chairman/ Scientific Committee, 68th Annual Convention of Sri Lanka Veterinary Association-year 2016
- ✧ Secretary/ Sri Lanka Association of Animal Production- year2014
- ✧ Assistant Treasurer/ Sri Lanka Association of Animal Production- year1999
- ✧ Treasurer/ Peradeniya University Agriculture Teachers Association- years 2012 and 2016
- ✧ Coordinator/International Conference of Biotechnology in Animal Reproduction- year2011
- ✧ Warden/ Sir Ivor Jennings Hall, University of Peradeniya- years 2015, 2016, 2017,2018, 2019
- ✧ Warden/Marcus Fernando Hall , University of Peradeniya- year 2011
- ✧ Coordinator/Annul Student Seminar Day- Sept. 2004
- ✧ Coordinator/Annul Student Seminar Day- March 2004

EDITORIAL WORK

- ✧ A Glossary for Animal Health/ Immunology/ Bio system.
- ✧ PROCEEDINGS, Thirteenth Student Research Session- September 2004.
Editor-in- Chief: RMC Deshapriya
- ✧ PROCEEDINGS, Twelfth Student Research Session- March 2004.
Editor-in- Chief: RMC Deshapriya
- ✧ Editor/Sri Lanka Association for Laboratory Animal Science-2017
- ✧ Editorial Board Member/Sri Lanka Veterinary Journal- 2016,2017,2018

AWARDS

- ✧ Dr.Perumal Pillai award for the best paper appeared in 53rd vol. of Sri Lanka Veterinary Journal
- ✧ Asian Development Bank personal development grant for graduate studies.
- ✧ JASSO international student award for graduate studies.

EXPERTISE AREAS

- ✧ Colony PCR,DNA cloning, sequencing
- ✧ Preparation of competent cells
- ✧ Microbiological techniques

- ✧ Site directed mutagenesis, selection, cloning to plasmid DNA
- ✧ Protein expression induction bacterial cells, purification and isolation.
- ✧ Column purification, affinity chromatography
- ✧ SDS-PAGE, Western blotting
- ✧ Enzyme assays and kinetics- inhibitory activities
- ✧ Lab animal feedings, collection of blood, serum, small surgeries on implantation.
- ✧

RESEARCH INTEREST

- Dairy Hygiene and Milk Quality Improvement
- Development of method to early diagnosis of sub-clinical mastitis
- Novel dairy products development with consumer preferred health benefits.
- Dairy Value Chain analysis at small dairy farming.
- Dairy Biotechnology
- Zoonoses
- Milk Proteins

NATIONAL AND INTERNATIONAL CONTRIBUTION

REVIEWING FOR JOURNALS

Sri Lanka Veterinary Journal, Tropical Agricultural Research, Agrieast,

RESEARCH PUBLICATIONS (*Corresponding author, First Author**, Student I supervised underlined)

PEER REVIEWED JOURNAL

- ✧ Dameesha Indeewari Abeygunawardana, Ranasinghe Mudiyanseelage Sajeewani Bimalka Kumari Ranasinghe, Sembukuttige Nimali Tharangani De Silva, **Rathnayake Mudiyanseelage Chandrasiri Deshapriya**, Prathapasinghe Arachchige Gamika, Jayanthe Rajapakse (2022) Effect of LHCGR and FSHR gene polymorphisms on fertility traits and milk yield of cross-bred dairy cows in Sri Lanka. *Animal Biotechnology* <https://doi.org/10.1080/10495398.2022.2044346>
- ✧ R.M.S.B.K Ranasinghe, **R. M. C Deshapriya**, D. I. Abeygunawardana, R. Rahularaj, C. M. B. Dematawewa"R. M. S. B. K (2021) Subclinical mastitis in dairy cows in major milk-producing areas of Sri Lanka: Prevalence, associated risk factors, and effects on reproduction. *Journal of Dairy Science* Volume 104, Issue 12, December 2021, Pages 12900-12911
- ✧ R Rahularaj, **RMC Deshapriya**, RMSBK Ranasinghe (2019)Influence of bovine sub-clinical mastitis and associated risk factors on calving interval in a population of crossbred lactating cows in Sri Lanka *Tropical animal health and production* 51 (8), 2413-241
- ✧ ***R.M.C Deshapriya****, R.Rahularaj and RMSBK Ranasinghe(2019)Mastitis, Somatic Cell Count and Milk Quality: An overview, Sri Lanka Veterinary Journal 66 (1):1-12.
- ✧ R. Rahularaj, ***R. M. C. Deshapriya** and R. M. S. B. K. Ranasinghe (2019)Relationship of NAGase enzyme activity and other indicators to detect sub-clinical mastitis in a group of crossbred cows of Sri Lanka *Tropical Agricultural Research* (in Press)

- ✧ Minh Ha Ngo, Takehisa Soma, Hwa-Young Youn, Taiji Endo, Isaac Makundi, Junna Kawasaki, Ariko Miyake, Bui Thi To Nga, Huyen Nguyen, MaríaCruz Arna, Daniel Fernández de Luco, **R. M. C. Deshapriya**, Shingo Hatoya, Kazuo Nishigaki (Received: 9 August 2019 / Accepted: 2 October 2019). Distribution of infectious endogenous retroviruses in mixed-breed and purebred cats, *Archives of Virology Official Journal of the Virology Division of the International Union of Microbiological Societies, Arch Virol DOI 10.1007/s00705-019-04454-z*
- ✧ **R.Rahularaj**, ***R.M.C Deshapriya**, R.M.S.B.K Ranasinghe (2019) Associated risk factors for Bovine Sub-Clinical Mastitis and its effects on Calving Interval in a population of cross-bred Lactating cows in Sri Lanka. *Tropical Animal Health and Production 51, 2413-2419*
- ✧ **N. Sanotheran** and ***R.M.C. Deshapriya** A Preliminary investigation on milk quality in Ampara District of Sri Lanka (2018), International Journal of Scientific and Research Publications, Volume 8, Issue 7, July 2018.
- ✧ **Abeygunawardena DI**, Ranasinghe RMSBK ***Deshapriya RMC** Hygienic Practices and quality of raw milk produced in a small scale dairy farming area in Sri Lanka(2017) International Journal of Scientific and Research Publications vol..issuu.7
- ✧ **R.M.C Deshapriya****, M.Usui, S.Yuhashi. T.Kageyama, Y. Yamamoto (2009) Identification of essential residues of CTLA-2alpha for inhibitory potency *J.Biochemistry*, 147(3)393-409
- ✧ **R. M.C. Deshapriya****, Akiyo Takeuchi, Khoji Shirao, Kenji Isa, Shoji Watabe, Ryutaro Murakami, Hidenobu Tsujimura and Y. Yamamoto(2007) Drosophila CTLA-2-like protein (D/CTLA-2) inhibits cysteine proteinase 1 (CP1), a cathepsin L-like enzyme. *Zoological Science*. 24(1).
- ✧ Luziga.,C.,Nakamura,O.,**Deshapriya,R.M.C.**,sui,M.,Miyaji,M.,Wakimoto,M.,Wada,N.,Yamamoto,Y., (2007) Expression mapping of cytotoxic T-lymphocyte antigen 2-alpha gene transcripts in mouse brain *Histochem Cell Biol* 127, 569-579.
- ✧ Luziga.,C.,Nakamura,O.,**Deshapriya,R.M.C.**,Usui,M.,Miyaji,M.,Wakimoto,M.,Wada,N.,Yamamoto,Y., (2008) Dendritic and axonal localization of cytotoxic T-lymphocyte antigen 2-alpha proteins in mouse brain *Brain Res*. 1204, 40-20.
- ✧ ***Deshapriya R M C****, K F S T Silva and R A Wilbey (2007) Investigation of suitable pasteurisation conditions for raw milk in Sri Lanka. *Sri Lanka Veterinary Journal 53rd vol.*

CONFERENCE PROCEEDINGS

- ✧ **GIS Fernando** and **RMC Deshapriya** (2017) Immobilized Titanium dioxide photocatalytic technique for reduction of bacterial counts in bovine milk, *FauRS, University of Peradeniya*
- ✧ **HRAT Wickramathilaka** and **RMC Deshapriya** (2017) Milk incorporated high protein tofu production with improved sensory attributes, *FauRS, University of Peradeniya*
- ✧ **NANS Narandeniya** and **RMC Deshapriya** (2017) Development of ready to serve beverage by using cheese whey *FauRS, University of Peradeniya*.

- ✧ V.Munasighe and **RMC Deshapriya** (2017) A study on properties of yoghurt produced from blended milk from different farm animals, *FauRS, University of Peradeniya*.
- ✧ M.Priyanthi, Nayana Perarera and **RMC Deshapriya** (2017) Development of a choco-orange flavoured drinking yoghurt using cow milk, *FauRS, University of Peradeniya*.
- ✧ K.Hershanth, **RMC Deshapriya** and AK Karunarathna (2017) Development of an aeration technique to treat milk condense water from spray drying, *FauRS, University of Peradeniya*.
- ✧ LR Maduwanthi, **RMC Deshapriya** and U Mangalika (2017) Effect of milk adulteration on milk price and physico-chemical properties of milk *FauRS, University of Peradeniya*.
- ✧ IGLC Ranasinghe, R.Liyanage and **RMC Deshapriya** (2017) Investigation of accumulation of heavy metals in bovine blood and milk, *FauRS, University of Peradeniya*.
- ✧ WRE Lakmali, M.Gunawardena and **RMC Deshapriya** (2016) A method to reduce the pathogenic and contaminating microorganism in udder and in the milk using TiO₂ photocatalysis technique *FauRS, University of Peradeniya, Sri Lanka*.
- ✧ A.R Mohamed and **RMC Deshapriya** (2016) Potential of utilization of seaweeds extracts in stirred yoghurt *FauRS, University of Peradeniya, Sri Lanka*.
- ✧ AP Wijeweera, BVR Punyawardena and **RMC Deshapriya** (2016) Association between climatic pattern and occurrence of mastitis and bovine babesiosis in North Central Province of Sri Lanka. *FauRS, University of Peradeniya, Sri Lanka*.
- ✧ R.Rahularaj, **RMC Deshapriya**, RMSBK Ranasinghe and MA Fazi (2014) An epidemiological study on Bovine Subclinical Mastitis in Ampara District of Sri Lanka. *Faculty of Agriculture Undergraduate Research Session, University of Peradeniya, Sri Lanka*.
- ✧ Bimalka Ranasinghe, **Deshapriya Rathnayaka**, Dameesha Abegunawardana, Ajith Kumara and Chamika Samarakoon (2015) Subclinical mastitis in dairy cows in Kurunegala district of Sri Lanka: prevalence, associated risk factors and effects on reproductive performance. *Japanese Journal of Veterinary Research, 63(Supplement 1): S57-S72*
- ✧ RWSLPriyadarshana and **RMC Deshapriya** (2014) A study on current status of dairy production in Monaragala District of Sri Lanka. *Faculty of Agriculture Undergraduate Research Session, University of Peradeniya, Sri Lanka*.
- ✧ RMNM Rathnayaka, **RMC Deshapriya** and MP Edirisinghe (2014) Substitution of artificial colourings in value added dairy products. *Faculty of Agriculture Undergraduate Research Session, University of Peradeniya, Sri Lanka*.
- ✧ DVYLK Dodangoda, **RMC Deshapriya** and RPVJ Rajapaksha (2014) A study on prevalence of parasitic infections in ornamental fish in Kandy District, *Faculty of Agriculture Undergraduate Research Session, University of Peradeniya, Sri Lanka*.

- ✧ MDN Perera and **RMC Deshapriya** (2014) The effect of spray drying conditions on quality of locally produced powdered milk in Sri Lanka. *Wayamba University International Conference, Sri Lanka.*
- ✧ BGCA Piyawantha, **RMC Deshapriya** and AR Dayananda (2014) Development of a garlic and chilli in cooperated concentrated yogurt spread. *Annual Scientific Session Sri Lanka Veterinary Association*
- ✧ MC Kalpani, CJ Samarasinghe, RMSBK Ranasinghe and **RMC Deshapriya** (2013) Goat production in Divulapitiya Divisional Secretariat area; current status, constraint and future potentials. *Annual Scientific Session Sri Lanka Veterinary Association.*
- ✧ **RMC Deshapriya**** and Y.Yamamoto (2013) Functional Analysis of Cytotoxic T lymphocyte antigen 2-alpha. *Conference on Sri Lanka Japan Collaborative Research.*
- ✧ **RMC Deshapriya****, Ori Nakamura, Minako Hirokawa, Masaru Usui , Miho Wakimoto, Akinori Miyaji , Yoshimi Yamamoto (2006) Mouse cytotoxic T-lymphocyte antigen-2 α , a novel cysteine proteinase inhibitor homologous to the proregions of cysteine proteinases, *In International Conference of Molecular Biology and Biochemistry, Kyoto, Japan.*
- ✧ **RMC Deshapriya****, Sho Yuhashi, Masaru Usui and Yoshimi Yamamoto (2008) Identification of critical amino acids residues of CTLA-2 alpha for inhibitory activity, *BMB conference, in Kobe, Japan.*
- ✧ **RMC Deshapriya****, Sho Yuhashi, Masaru Usui and Yoshimi Yamamoto (2007) Identification of essential amino acids residues of CTLA-2 alpha for inhibitory activity, *BMB conference, in Yokohama, Japan.*
- ✧ **RMC Deshapriya****, K F S T Silva and R A Wilbey(2007) Investigation of suitable pasteurisation conditions for raw milk in Sri Lanka. *Sri Lanka Veterinary Journal.*
- ✧ **RMC Deshapriya**** , Bimalka Ranasinghe, and K.F S Silva A(2004) Study on milk quality in relation to processing sector of Sri Lanka. *SLAAS.*
- ✧ Indira Silva, Kariyawasam S, and **RMC Deshapriya** (1995) A Retrospective Study on canine Critical anaemia Cases treated with whole Blood-Veterinary Faculty Annual Session – Dec1994 and *Sri Lanka Veterinary Journal.*
- ✧ **RMC Deshapriya****, Dangolla A, Amarathna K.R.J.K., Mallawa M.R.C.K, Silva I.D(1996) Haematological Parameters of Clinically Normal large white pigs in Kandy District. *Veterinary Faculty Annual Session.*
- ✧ **RMC Deshapriya**** , Rajapaksha R.P.V.J, Silva K.F.S.T, Perera(1998) Preliminary study on Gastrointestinal parasite in goats and sheep in Dodangolla and Mawala University livestock farms. *Annual University Sessions of University of Peradeniya.*
- ✧ Dangolla A, Amarathna K.P.J.K., Mallawa M.R.C.K, **RMC Deshapriya** and Silva I.D (1997). Observation on blood parameters of pigs in Sri Lanka. *Veterinary Faculty Annual Session.*
- ✧ Development of a ready to eat snack from pork rind in Sri Lanka(2000)
Bimalka Ranasinghe, **RMC Deshapriya** & H.W Cyril-*SLAAS*

REFEREES

<u>Name</u>	<u>Address</u>	<u>Designation</u>
1.Prof.K. Nishigakil	Laboratory of Molecular Immunology and Infectious Diseases The United Graduate School of Veterinary Science Yamaguchi University, 1677-1 Yoshida, Yamaguchi 753-8515, Japan. Email: kaz@yamaguchi-u.ac.jp	Professor
2. Prof.S Kodithuwakku	Dean Faculty of Agriculture University of Peradeniya, Peradeniya. sarathabc@gmail.com	Professor

I certify that the information provided above is true and accurate



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Prof. RMC Deshapriya