
Malinda Hulugalla

Residence: 15, Bandaranayake Mawata, Negombo Road, Kurunegala.

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1. Personal Information

Full Name: Wanninayaka Mudiyansele Malinda Prashad Hulugalla

Date and Place of Birth: 10th of August 1991

Nationality/Citizenship: Sri Lankan

Gender: Male

Civil Status: Unmarried

2. Work Experience

Current Positions:

- ✓ Lecturer (Probationary) Department of Animal Science, Faculty of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka from 10th October 2018 to Present.

Position Held:

- ✓ Graduate Research Assistant, Research Centre for Global Aeromedicine (GAMRC), Obihiro University of Agriculture and Veterinary Medicine, Japan from 27th April 2022-19th March 2025
- ✓ Temporary Lecturer, Department of Animal Science, Faculty of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka from 01st February 2017 to 28th February 2018.

3. Educational Achievements

- ✓ 2021 – 2025 Ph.D. in Agriculture, Obihiro University of Agriculture and Veterinary Medicine, Japan (Major: Animal Reproductive Pathophysiology)
Thesis: Impact of cryopreserved bull semen extender on uterine innate immune system *in vitro*

- ✓ 2013 - 2016 B.Sc. in Animal Science and Fisheries (FGPA: 3.59), Faculty of Agriculture, University of Peradeniya, Sri Lanka.
- ✓ 1997 - 2011 Maliyadeva College, Kurunegala, Sri Lanka.

Scholarship:

- ✓ Obihiro University Scholarship to follow Doctoral Degree in Obihiro University of Agriculture and Veterinary Medicine, Japan.

4. Research and Professional Work

ResearchGate Profile:

<https://www.researchgate.net/profile/Malinda-Hulugalla>

Google Scholar Profile:

<https://scholar.google.com/citations?user=eqKqcP8AAAAJ&hl=en>

ORCiD:

<https://orcid.org/my-orcid?orcid=0000-0003-2155-5972>

Research Interests:

- ✓ Animal Environmental Physiology
- ✓ Animal Reproductive Physiology
- ✓ Reproductive Immunology

Journal Publications

- 1) Hulugalla, M., Mansouri, A., Waehama, E., Akthar, A., & Miyamoto, A. (2025). Semen extender triggers a mild physiological inflammatory response in the uterus without disrupting sperm-uterine immune crosstalk *in vitro* in cattle. *Journal of Reproduction and Development*, 71 (1): 24–34.
- 2) Si, J., Dai, D., Gorkhali, N. M., Wang, M., Wang, S., Sapkota, S., Kadel, R. C., Sadaula, A., Dhakal, A., Faruque, M. O., Omar, A. I., Sari, E. M., Ashari, H., Dagong, M. I. A., Yindee, M., Rushdi, H. E., Elregalaty, H., Amin, A., Radwan, M. A., . . . Zhang, Y. (2025). Complete Genomic Landscape Reveals Hidden Evolutionary History and Selection Signature in Asian Water Buffaloes (*Bubalus bubalis*). *Advanced Science*, 12 (4):
- 3) Silva, G. L. L. P., Punyawardena, B. V. R., Hettiarachchi, A. K., Hulugalla, W. M. M. P., & Lokuge, G. M. S. (2021). Assessing thermal neutral zones in Sri Lanka for ten different dairy cattle breeds and crosses: An approach using temperature humidity

index (THI). International Journal of Livestock Production. 12 (12):112-121.

Abstracts in Proceedings

- 1) Miyamoto, A., Hulugalla, M., Mansouri, A., Sakai, K. and Akthar, I. Egg yolk-based Extender and Seminal Plasma Induce Mild Inflammation in Bovine Endometrium Mainly via TLR2. Proceedings of the Society for the Study of Reproduction. Research symposium held in Washington, DC, USA, 29th July -1st August 2025.
- 2) Waehama, E., Mansouri, A., Hulugalla, M., Akthar, I., Yousef, M.S. Miyamoto, A. *Lactocaseibacillus rhamnosus* Peptidoglycan Suppresses TLR2/1-Mediated Inflammation in Bovine Endometrial Epithelial Cells. Book of Abstracts of the 76th Annual Meeting of the European Federation of Animal Science. Research symposium held in Innsbruck, Austria, 25th August -29th August 2025.
- 3) Hulugalla, M., Akthar, A. Waehama, E., Yousef, M.S. and Miyamoto, A. Semen extender supports the sperm-triggered uterine innate immune response *in vitro* in cattle. Proceedings of Society of Reproduction and Development. Research symposium held in Nagoya University, Nagoya, Japan, 22nd -25th September 2024 pp:99
- 4) Poorni S., Anupama N.M.T., Hulugalla W.M.M.P., Nethmini N., Jayawardana B., Wijemanna I., Ranathunga L. 2024 Computational Insights into the Antiviral Potential of Longispinogenin and Sitakisogenin Against African Swine Fever Virus DNA Ligase. Proceedings of the Peradeniya University International Research Symposium and Exposition. 29th and 30th August 2024 December.
- 5) Poorni S., Hulugalla W.M.M.P., Anupama N.M.T., Nethmini N., Jayawardana B., Yomal J., Ranathunga L. 2024 *In Silico* Quest: Gymnema sylvestre's Chemical Arsenal Against Influenza a Virus Neuraminidase. Proceedings of the Peradeniya University International Research Symposium and Exposition. 29th and 30th August 2024.
- 6) Godage, G.G.C.P., Ekanayake, W.E.M.L.J. and Hulugalla, W.M.M.P. 2021, Characterization of the Nutritional and Botanical Composition of Naturally Grown Pastures in Mahakanamulla Cascade System in North Central Province, Sri Lanka. Proceedings of the 7th Faculty of Agriculture Undergraduate Research Symposium held in Faculty of Agriculture, University of Peradeniya, Peradeniya Sri Lanka, 13th August 2021 pp:8.
- 7) Jayasinghe, K.S.K., Vidanarachchi, J.K., Hulugalla, W.M.M.P. and Ekanayake, W.E.M.L.J. 2021, Nutritional Composition of Hydroponically Grown Green Maize (*Zea mays*) Fodder as a Pure Stand and Mixture with Sun hemp (*Crotalaria juncea*). Proceedings of the 7th Faculty of Agriculture Undergraduate Research Symposium held in Faculty of Agriculture, University of Peradeniya, Peradeniya Sri Lanka, 13th August 2021 pp:47.

- 8) Wijemanna, B.U.R., Vidanarachchi, J.K., Ekanayake, W.E.M.L.J., Hulugalla, W.M.M.P., Mangalika, U.L.P., Lokuge, G.M.S., Priyashantha, H., Fernando, G.K.V. and Jayarathna, W.N. 2021, Provision of Yeast Extract-based Supplementation to Crossbred Jersey-Friesian Dairy Cows in an Intensive Dairy Farming System in Sri Lanka did not Influence the Milk Yield or Composition. Proceedings of the 7th Faculty of Agriculture Undergraduate Research Symposium held in Faculty of Agriculture, University of Peradeniya, Peradeniya Sri Lanka, 13th August 2021 pp: 53.
- 9) Isuru, V.P.T., Ekanayake, W.E.M.L.J. and Hulugalla, W.M.M.P. 2021, Effect of Non-destructive Repellent Method on Sri Lankan Monkey (*Toque macaque*). Proceedings of the 7th Faculty of Agriculture Undergraduate Research Symposium held in Faculty of Agriculture, University of Peradeniya, Peradeniya Sri Lanka, 13th August 2021 pp:87.
- 10) Prabath, W.M.H.J., Samarakone T.S., Hulugalla W.M.M.P., Abeyrathna, R.M.R.D., Silva, F.H.C.A. and Ekanayake, E.M.A.C. 2021, Infrared Thermography as a Method to Evaluate the Heat Stress in Weaned Pigs: Relationship between Infrared Measured Body Surface Temperature and rectal Temperature in Weaned Pigs. Proceedings of the 7th Faculty of Agriculture Undergraduate Research Symposium held in Faculty of Agriculture, University of Peradeniya, Peradeniya Sri Lanka, 13th August 2021 pp:99.
- 11) Chathurika, H.M.M., Vidanarachchi, J.K., Dulanjaya, K.W.G.A.C., Hulugalla, W.M.M.P., and Vijesuriya, I.G.I. (2018) Quality Analysis of Milk Samples Collected from Dairy Farmers in Puttalam District, Sri Lanka. Proceedings of the 6th Faculty of Agriculture Undergraduate Research Symposium 2018 held in Faculty of Agriculture, University of Peradeniya, Peradeniya Sri Lanka.
- 12) Liyanage, K.L.D.B.P., Samarasinghe, K., Vidanarachchi, J.K., Hulugalla, W.M.M.P., and Korale Gedara, P.M. 2018 Consumer Perception of Organic Animal-based Foods in Colombo District, Sri Lanka. Proceedings of the Faculty of Agriculture Undergraduate Research Symposium 2018 held in Faculty of Agriculture, University of Peradeniya, Peradeniya Sri Lanka.
- 13) Gunawardana, H.P.G.P.S., Vidanarachchi, J.K., Silva, G.L.L.P., Hulugalla, W.M.M.P., and Jayawardana, A.S. 2018. Estimating Carbon Footprint for Milk Produced up to Farm Gate at Cattle Farms in Kurunegala District, Sri Lanka. Proceedings of the Faculty of Agriculture Undergraduate Research Symposium 2018 held in Faculty of Agriculture, University of Peradeniya, Peradeniya Sri Lanka.
- 14) Prathibha, T.H.N., Vidanarachchi, J.K., Hulugalla, W.M.M.P., Ranadheera, C.S. and Wijethilaka, W.G.R. 2018. Compositional Changes Occurred due to Mastitis in Raw Milk: A Case Study Conducted at a Large- Scale Dairy Farm in Low Country, Dry Zone in Sri Lanka. Proceedings of the Faculty of Agriculture Undergraduate Research Symposium

2017 held in Faculty of Agriculture, University of Peradeniya, Peradeniya Sri Lanka.

- 15) Hulugalla, W.M.M.P., Vidanarachci, J.K., Lundh, A.S., Johanson, M., Ranadheera C.S., and Mangalika, U.L.P. 2016 Investigation of Microbial Quality, Somatic Cell Count and Lipolytic Activity of Raw Milk Collected from Galaha and Thaluthuoya Veterinary Ranges. Proceedings of the Faculty of Agriculture Undergraduate Research Symposium 2016 held in Faculty of Agriculture, University of Peradeniya, Peradeniya Sri Lanka, 16th December 2016.

Grant and Contract:

University of Peradeniya, Sri Lanka Competitive Research Grant – 2022. “Use of *Azolla (Azolla pinnata)* in Silage Production”. URG/2022/09/Ag. SL Rs. 459,700 (Co-investigator). 2022- *Progressing*.

University Research Council Multidisciplinary Research Grants 2024. “Identification of Active Compounds in Sri Lankan Medicinal Plants as Antivirals Against Livestock Viral Diseases”. MULTIDISCIPLINARY GRANT No.516. SL Rs. 2,500,000 (Co-investigator). 2024- *Progressing*.

University of Peradeniya, Sri Lanka Competitive Research Grant – 2025. “A computer vision-based approach to determine heat stress in broilers via automated behavior recognition.”. URG/2025/09/Ag. SL Rs. 2,000,000 (Principal investigator). 2025- *Progressing*.

Supervision of Research Students:

Undergraduate Students

- ✓ H.M.M. Chathurika “Quality Analysis of Milk Samples Collected from Dairy Farmers in Puttalam District, Sri Lanka” (co-supervisor, graduated in 2019).
- ✓ H.P.G.P.S. Gunawardana “Estimating Carbon Footprint for Milk Produced up to Farm Gate at Cattle Farms in Kurunegala District, Sri Lanka” (co-supervisor, graduated in 2019).
- ✓ K.L.D.B.P. Liyanage “Consumer Perception of Organic Animal-based Foods in Colombo District, Sri Lanka” (co-supervisor, graduated in 2019).
- ✓ W.M.H.J. Prabath “Infrared Thermography as a Method to Evaluate the Heat Stress in Weaned Pigs: Relationship between Infrared Measured Body Surface Temperature and rectal Temperature in Weaned Pigs” (co-supervisor, graduated in 2021).
- ✓ V.P.T. Isuru “Effect of Non-destructive Repellent Method on Sri Lankan Monkey (*Toque macaque*)” (co-supervisor, graduated in 2021).
- ✓ B.U.R. Wijemanna “Provision of Yeast Extract-based Supplementation to Crossbred

Jersey-Friesian Dairy Cows in an Intensive Dairy Farming System in Sri Lanka did not Influence the Milk Yield or Composition” (co-supervisor, graduated in 2021).

- ✓ G.G.C.P. Godage “Characterization of the Nutritional and Botanical Composition of Naturally Grown Pastures in Mahakanamulla Cascade System in North Central Province, Sri Lanka” (co-supervisor, graduated in 2021).

5. Teaching

Training on Teaching Methodologies. Staff Development Centre, University of Peradeniya.

Teaching Experience:

As an instructor

Undergraduate:

Faculty of Agriculture

1. AS 2101 Anatomy, Physiology and Health Management of Farm Animals
2. AS 2202 Poultry and Swine Production
3. AS 3203 Applied Animal Physiology
4. ASF 1102 Anatomy and Physiology of Farm Animals
5. ASF 2102 Animal Environmental Physiology
6. ASF 3106 Livestock and Fish Legislation
7. ASF 4102 Animal Quarantine and Bio-security

- ✓ Resource Person for the Training Programmes conducted to Agriculture Diploma Students of Aquinas College of Higher Studies Colombo and GCE A/L Students of various Schools in Sri Lanka.

- ✓ Facilitator – Leadership, Team Work and Citizenship Development Programme Organized by Faculty of Agriculture University of Peradeniya – 2017.

6. Department, Faculty and University Contributions

- ✓ An elected member of the Faculty Board of Agriculture 2019 – 2021.
- ✓ A member of the Faculty Quality Assurance Cell (FQAC)/Internal Quality Assurance Cell (IQAC)-FoA 2019 – 2021.
- ✓ A member of the e-Learning and Computer Unit Management Committee of the

Faculty of Agriculture, University of Peradeniya (2019-2021).

- ✓ A member of Language Teaching committee of the Faculty of Agriculture, University of Peradeniya (2019-2021).
- ✓ Secretary of the Farm Progress Committee of Mawelawatta Livestock Field Station 2021.
- ✓ Secretary Assistant ASF Curriculum Revision Committee 2021.
- ✓ A member of the Advisory Board of Buddhist Brotherhood Society of Faculty of Agriculture; 2021 and 2022.
- ✓ Academic Sub warden Jayathilake Hall, University of Peradeniya 2021.
- ✓ A member of the organizing committee of Peradeniya University International Research Sessions (iPURSE) 2019.
- ✓ A member of the organizing committee of The PGIA Annual Congress 2018, 2019 and 2020.
- ✓ A member of the organizing committee of Faculty of Agriculture Undergraduate Research Symposium (FAuRS) 2018, 2019 and 2020.
- ✓ Member of the organizing committee of the Felicitation Ceremony 2019 of Faculty Agriculture.
- ✓ Member of Editorial Panel of “Hanthana Blossoms” published by the Faculty of Agriculture 2020 and 2021.

7. Memberships

- ✓ Regular Member of Society of Reproduction and Development, Japan.
- ✓ Affiliate Member of Sri Lanka Institute of Agriculture.
- ✓ Life member of Alumni Association of Faculty of Agriculture University of Peradeniya.
 - Secretary 2021
- ✓ Life member of Sri Lanka Association of Animal Production.
 - Ex-co member 2017 - 2021

8. Extra Curricular Activities

- ✓ President Postgraduate Agriculture Students' Association (2018 – 2020).
- ✓ Junior Treasurer of Animal Science Society, Faculty of Agriculture, University of Peradeniya (2015-2016).
- ✓ Editor of the Agriculture Faculty English Literary Association (2015 – 2016).

9. References

- ✓ Akio Miyamoto, PhD
Professor, Head Director
Global AgroMedicine Research Center (GAMRC)
Reproduction Science Group
Life and Food Sciences Department
Obihiro University of Agriculture & Veterinary Medicine
Obihiro 080-8555, Japan
Tel: +81-155-49-5416; Fax: +81-155-49-5459
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- ✓ Missaka Wijayagunaeardane, PhD
Senior Professor of Animal Science (Chair)
Department of Animal Science
Faculty of Agriculture
University of Peradeniya
Tel: +94-77-776-4317
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- ✓ Janak Vidanarachchi, PhD
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I hereby certify that the above information is true and accurate to the best of my knowledge.



Malinda Hulugalla

24th March 2025