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Educational Qualifications

Master of Philosophy in Molecular Microbiology- Faculty of Veterinary Medicine and Animal Science, University of Peradeniya - By Research (2016-2020)

Thesis title: Screening Milk and Slaughtered Cattle for Bovine Tuberculosis and Molecular Characterization of *Mycobacterium bovis* Strains from Sri Lanka

Bachelor of Science in Agricultural Technology and Management - University of Peradeniya, Sri Lanka (2011-2015)

CGPA: 3.55/4 (Second Class Upper Division Honors)

Thesis title: Microbiological Quality and Safety Assessment of Locally Produced Raw Cow Milk at Different Levels of Milk Supply Chain in the Central Province of Sri Lanka

Work Experience and Training

1. Temporary Demonstrator at Department of Animal and Food Sciences, Faculty of Agriculture, Rajarata University of Sri Lanka (February 2018 – September 2020)
 - Conducting both farm and laboratory practical for undergraduates
 - Provide student support, discussions and tutorials for undergraduate students
2. Visiting Demonstrator at Postgraduate Institute of Science for M.Sc degree program in Pharmaceutical Botany (2017/2018), University of Peradeniya
3. Research Assistant at Department of Veterinary Pathobiology, Faculty of Veterinary Medicine and Animal Science, University of Peradeniya (January 2016 - February 2018)

Well experienced and proficient user in laboratory techniques;

- Molecular diagnostic methods including DNA extraction and PCR
 - Routine culture, identification and antimicrobial sensitivity testing on clinical samples in a standard Veterinary Diagnostic Laboratory
 - Monitoring routine laboratory procedures such as media preparation, sterilization of equipment and proper handling of samples
 - Microbiological quality detection of water, animal originated food and feed products using conventional bacteriology and mycology
4. Internship in Center for Aquatic Disease Diagnosis and Research, Faculty of Veterinary Medicine and Animal Science, University of Peradeniya (July 2015 - September 2015)
 - Performed a wide range of microbiological culture techniques and fish disease diagnostic tests
 - Experienced in molecular characterization methods and relevant equipment usage for animal disease diagnosis
 5. Internship in one of the leading shrimp farming companies “King Aqua (Pvt) Ltd” at Chilaw, Sri Lanka (December 2015-January 2016)
 - Obtained hands on experience on post larvae production and related management practices
 - Experienced in laboratory quality checking techniques of post larvae, brood stock and water quality
 - Trained on DNA extraction protocols and molecular characterization techniques including PCR

Academic Awards

1. R. R. Appadurai memorial award for the best performance in Animal Science, Faculty of Agriculture, University of Peradeniya, 2015
2. S. F. H. Perera memorial prize for the best performance in final year examination in Agriculture Technology and Management, Faculty of Agriculture, University of Peradeniya, 2015

Publications

Full papers

1. **Jayasumana, M.T.L.K.**, Galappaththi, T.I., Pushpakumara, P.G.A., Gamage, C.D., Smith, N.H. and Jinadasa, H.R.N., (2018). Screening milk for bovine tuberculosis in dairy farms in Central Province, Sri Lanka. *Tropical Agricultural Research*, 30(1):12-18.
[DOI: http://doi.org/10.4038/tar.v30i1.8274](http://doi.org/10.4038/tar.v30i1.8274)

2. **Jayasumana M.T.L.K.**, Wijesundera, R. R. M. K. K., Mudalige, R., Jinadasa, H. R. N., (2021). Detection of *Mycobacterium bovis* in cattle lung tissue from two abattoirs in Western and North Central provinces of Sri Lanka. Journal of National Science Foundation, 49 (1):99-109.
<http://dx.doi.org/10.4038/jnsfsr.v49i1.9873>
3. Weragama, D., Weerasingha, V., **Jayasumana, L.**, Adikari, J., Vidanarachchi, J.K. and Priyashantha, H., (2021). The physicochemical, microbiological, and organoleptic properties and antioxidant activities of cream cheeses fortified with dried curry leaves (*Murraya koenigii* L.) powder. Food Science & Nutrition. 9 (10):5774-5784.
<https://doi.org/10.1002/fsn3.2551>
4. Kumari, G.W.S.N., **Jayasumana, M.T.L.K.**, Edirisinghe, M.P. and Weerasingha, W.V.V.R., (2019). Use of Milk Protein Isolate to Improve the Textural Properties of Curd. Sri Lankan Journal of Agriculture and Eco-systems, 1(2):4-13.
<http://repository.rjt.ac.lk/handle/123456789/4978>
5. Kumari A.W.C.P., Weragama K.W.D.P., **Jayasumana M.T.L.K.**, Weerasingha W.V.V.R. and Adikari A.M.J.B., (2020). Development of Set Type Yoghurt Using Extracted Juice of Locally Available Watermelon Varieties in Dry Zone, Sri Lanka, Rajarata University Journal, 5 (2): 21-27.
<http://repository.rjt.ac.lk/handle/123456789/3098>

Abstracts

1. M. T. L. K. Jayasumana, D. M. U. N. K. Dunuwila, P. G. A. S. Palkumbura, R. Mudalige, I. V. P. Dharmawardena. Detection of *Mycobacterium bovis* among slaughtered cattle in selected abattoirs in Western and North Central provinces of Sri Lanka. Proceedings of the Annual Sessions of Sri Lanka Veterinary Association, 2020
https://drive.google.com/file/d/1vql-jQiHatsT1lj-pWmChwVWNs508dhp/view?usp=share_link
2. **M. T. L. K. Jayasumana**, Y. H. P. S. N. Kumara, A. A. A. W. K. Amarasinghe, P. G. A. Pushpakumara, L. N. A. De Silva, P. A. B. D. Alexander, G. S. P. de S. Gunawardena, N. H. Smith, D. Magana-Arachchi, H. R. N. Jinadasa. Molecular characterization of *Mycobacterium bovis* isolates from Central province and North Western province of Sri Lanka using MIRU-VNTR typing. Proceedings of the Annual Sessions of Sri Lanka Veterinary Association, 2018
https://drive.google.com/file/d/1KjEu4-cJbGNjFFBF5WgqWgOCuyRUob1O/view?usp=share_link
3. **M. T. L. K. Jayasumana**, T. I. Galappaththi, P. G. A. Pushpakumara, C. D. Gamage, N. H. Smith, H. R. N. Jinadasa. Screening raw milk for *Mycobacterium bovis* contamination in dairy farms in Central province, Sri Lanka. Proceedings of the Annual sessions of Sri Lanka Veterinary association, 2018

https://drive.google.com/file/d/1m0 UgWq9D2NcBTQGX1roLu6_cwhVAoPY/view?usp=share_link

- 4 **M. T. L. K. Jayasumana**, B. V. P. Perera, A. Dangolla, M. A. Salgado, G.S.P.de. S. Gunawardena, N. H. Smith, D. Magana-Arachchi, H. R. N. Jinadasa. Molecular characterization of *Mycobacterium tuberculosis* isolates from Sri Lankan elephants. Proceedings of the Annual sessions of Sri Lanka Veterinary association, 2018
https://drive.google.com/file/d/1ZrZMnZJihPm_2l5fRzF9NHm_rohia5_y/view?usp=share_link
- 5 P. M. P. Karunanayake, **M. T. L. K. Jayasumana**, W. R. Jayaweera, T. P. M. S. D. Bandara, B. V. Perera, H. R. N. Jinadasa, R. R. M. K. Wijesundera. Sudden death of an Asian elephant (*Elephas maximus*) due to an enteric *Clostridium* infection. Proceedings of the 10th International meeting of Asian Society of Conservation Medicine, 2017
https://drive.google.com/file/d/1wS3ZO_NkOsi2WCiB6lSEeFALUDKOkXeV/view?usp=share_link
- 6 Thilini Kulathunga, **Lakmini Jayasumana**, Manjula Jayasinghe and Rasika Jinadasa. Antimicrobial resistance patterns of fecal *Escherichia coli* isolates from a toque monkey (*Macaca sinica sinica*) troop in close contact with humans in southern Sri Lanka, Proceedings of the Peradeniya University International Research Sessions; iPURSE 2017
https://drive.google.com/file/d/1lBS9TzAgCJITUusz0gSjBUo7Bb1WJctll/view?usp=share_link
- 7 **M. T. L. K. Jayasumana**, S. A. Salgado, R. N. Jinadasa, M. P. B. Wijayagunawardane. Microbiological quality and safety assessment of locally produced raw cow milk at different levels of milk supply chain in the central province of Sri Lanka. Proceedings of the Faculty of Agriculture Undergraduate Research Symposium. December, 2015
https://drive.google.com/file/d/1ORXERvcTdwkDd-6oYCFxLn59sk4Wam1G/view?usp=share_link
- 8 M. A. Salgado, S. A. Withanage, **M. T. L. K. Jayasumana**, H. R. N. Jinadasa, M. Takago, M. P. B. Wijayagunawardane, Preliminary study on prevalence of mastitis in dairy farms in the mid country of Sri Lanka. Proceedings of the Third Conference on Sri Lanka-Japan Collaborative Research, 2015
https://drive.google.com/file/d/1u26Xt4gMo3Pk5FG6atfvjFohCRPzC1YG/view?usp=share_link
- 9 M. A. Salgado, S. A. Withanage, **M. T. L. K. Jayasumana**, H. R. N. Jinadasa, M. Takago, M. P. B. Wijayagunawardane. Incidence of bovine mastitis and microbiological quality of raw milk in the central province of Sri Lanka. Proceedings of the Fourth conference on Sri Lanka-Japan Collaborative Research, 2016
https://drive.google.com/file/d/1Ni7poIR_4k9phDgbyDKohH45fEytilD6/view?usp=share_link
- 10 G. W. S. N. Kumari, **M. T. L. K. Jayasumana**, M. P. Edirisinghe, L. P. I. N. P. Jayawardane, W. V. V. R. Weerasingha. Use of milk protein isolate to improve the textural properties of curd. Proceedings of 11th Annual Research Symposium, Rajarata University of Sri Lanka, 2019
<http://repository.rjt.ac.lk/handle/123456789/2312>

Extra-Curricular Activities

- ❖ Resource person for the practical training program for Advanced Level students in North Central Province, conducted by Ministry of Education
- ❖ Resource person for the farmer training program on dairy product developments in Mahaweli “H” division held on August, 2018, conducted by Mahaweli Authority
- ❖ Resource person for the teacher training program conducted with the collaboration of Department of Animal and Food Sciences in Faculty of Agriculture, RUSL and Galenbidunuwewa Zonal Education Office
- ❖ Resource person for the “Thirasara Mandapaya” radio program telecast on Sri Lanka Broadcasting Cooperation
- ❖ Resource person for the Exhibition held at Madatugama Sri RewathaMahaVidyalaya with the collaboration of Faculty of Agriculture, Rajarata University of Sri Lanka
- ❖ Member of the ‘Scientific Program and Technical Session’ sub-committee in 10th Annual Research Symposium in Faculty of Agriculture, Rajarata University of Sri Lanka
- ❖ Member of the ‘Scientific Program and Technical Session and Souvenirs’ sub-committee in 11th Annual Research Symposium in Faculty of Agriculture, Rajarata University of Sri Lanka
- ❖ Member of the Opening and Awarding Ceremony” sub-committee in 11th Annual Research Symposium in Faculty of Agriculture, Rajarata University of Sri Lanka
- ❖ Member of Sri Lankan Society for Microbiology (SSM)
- ❖ Member of Horticulture society, Faculty of Agriculture, University of Peradeniya (2013-2015)
- ❖ Member of Animal Science society, Faculty of Agriculture, University of Peradeniya (2013-2015)
- ❖ Member of Faculty Netball team in Faculty of Agriculture, University of Peradeniya

Personal Skills

- ❖ Excellent written and verbal communication skills in English
- ❖ Interpersonal and relationship building skills proven through experience in university clubs, sports and team works
- ❖ Strong presentation and demonstrating skills
- ❖ Proficient user of all Microsoft Office packages, email and internet; Followed a certificate course regarding computer awareness in Human Leadership Academy, Sri Lanka

Personal Details

Full Name : Mellawa Thanthrige Lakmini Kumari Jayasumana
Date of Birth : 02/11/1990
Gender : Female
Nationality : Sinhala
Civil Status : Married
School attended: Ananda College, Chilaw

Referees

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I hereby certify that the above particulars furnished by me are true and accurate to the best of my knowledge.

Lakmini Jayasumana
12- 02- 2023