

## CURRICULUM VITAE

### **Barana Chaminda Jayawardana (PhD)**

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### **Education**

**April 2006 to March 2009**    **Ph.D. in Food Hygiene**, Obihiro University of  
Agriculture and Veterinary Medicine, Obihiro, Japan.

**April 2004 to March 2006**    **MSc in Food Hygiene**, Obihiro University of Agriculture and  
Veterinary Medicine, Obihiro, Japan

**April 1995 to September 1999** **BSc in Agriculture**  
(Specialized in Animal Science, 2<sup>nd</sup> Class Upper  
Honours), University of Peradeniya, Sri Lanka.

### **Research Interests**

General areas of interest: Sustainable livestock production, Meat Science, Food Safety,  
Animal Product Development & Quality Assurance, Nutritional Biochemistry

## **Work Experience**

- June 2017 to date**                      **Professor of Animal Science,  
Department of Animal Science**  
Faculty of Agriculture  
University of Peradeniya, Sri Lanka
- March 2009 to June 2017**            **Senior Lecturer, Department of Animal Science**  
Faculty of Agriculture  
University of Peradeniya, Sri Lanka  
(March 2003-March 2009 on study leave in Japan)
- January 2000 to March 2009**       **Lecturer, Department of Animal Science,**  
Faculty of Agriculture  
University of Peradeniya, Sri Lanka
- March 2009 to date**                    **Visiting Lecturer, Postgraduate Institute of Agriculture,**  
University of Peradeniya, Sri Lanka
- 2010 to 2013**                            **Visiting Lecturer and examiner,** Dept. of Agricultural Systems,  
Faculty of Agriculture, Rajarata University of Sri Lanka, Anuradhapura, Sri  
Lanka
- 2010 to 2012**                            **Visiting Lecturer and examiner,** Dept. of Animal Science, Faculty of Animal  
Science, Uva Wellassa University
- September to November 2021** **Food Technologist (Consultant) –**  
Submit Food Pty Ltd, Sydney, 2148, NSW, Australia.
- December 2021 to Present**        **United Nations World Food Program (UNWFP)-National Consultant**  
in Food Safety Assessment

## **Academic Positions:**

- The Chairman, Board of Study in Animal Science, Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka (2016-2018)
- The Secretary, Board of Study in Animal Science, Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka (2014-2016).
- Member of Editorial Board – Textbooks preparation in Animal and Food Science-National Institute of Education (NIE) Sri Lanka (2017-2019).
- The Secretary, Sri Lanka Association of Animal Production, Sri Lanka (2009-2011).

## **Professional Qualifications Obtained**

- **Postdoctoral Researcher**, College of Veterinary Medicine, Chungnam National University, Republic of Korea-2017-2018 – Sponsored by National Institute for International Education, Ministry of Education, Republic of Korea.
- **Invited Researcher**, Laboratory of Meat Science, Department of Food Science, Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan 05-04-2010 to 02-07-2010.
- Followed a course on “**Food Laws and Regulations in South Asian Countries**”. Conducted by SAARC Agriculture Center, Dhaka, Bangladesh (2016).
- Obtained a competitive OKP (Orange Knowledge Program) fellowship from Nuffic (Netherlands organization for international cooperation in higher education) and successfully completed “**Learning, Action Research, and Outreach-Making Higher Education Boost Food Security**” at ICRA, Netherlands (2018).
- Obtained a competitive NFP (Netherlands Fellowship Program) from Nuffic (Netherlands organization for international cooperation in higher education) and successfully completed “**Module Product Quality and Food Safety**” at Pte +, Netherlands (2012).

## **Outreach activities**

1. **Lead the assessment of Food Safety & Quality in Poultry Sector-** Conducted by Sri Lanka Association of Animal Production, Sri Lanka (2015).
2. Public Health Inspector Course-Ministry of Health – Conducted Lectures and Practical in Food Safety & Meat (2014/15, 2016/17 & 2017/18)
3. **Chief Examiner-** GCE A/L Agro-Technology Paper Marking Center- Colombo in 2014, 2015, 2016 & 2018
4. Involved in preparation of Syllabus for Livestock Product Technology subject- Under the 13 years continuous schooling project-National Institute of Education-2017.
5. Curriculum Development Committee Member -Establishment of National College of Technological Education in Kuliyaipitya under Korea International Cooperation Agency (KOICA) Funded Program- Conducted by National Institute of Education.

## **Teaching - University of Peradeniya**

### **Undergraduates**

- Animal Biochemistry (ASF1101)
- Sustainable Livestock production (AS1101)
- Livestock Farm Practice (ASF 1104)
- Ruminant Animal Production (AS 2201)
- Animal Product Processing Technology (AS 3101)
- Slaughterhouse Management (ASF 3105)
- Meat & Fish Technology (ASF 3101)
- Meat, Fish and Egg Technology (AS 4101)
- Animal By-Product Technology (AS 4109)

### **Postgraduates**

- Meat Science (AS 5119)
- Slaughterhouse Planning & Management (AS 5131)
- Poultry Meat Processing Technology (AS 5134)
- Meat Processing Technology (AS 5216)
- Slaughterhouse By-Product technology (AS 5256)
- Microbiology of Dairy, Meat, Fish, and Egg (AS 5217)
- Industrial Visits: Dairy and Meat Products (AS 5299)
- Seminar (AS 5199)

## **Workshops- As a resource person**

1. “Handling of Meat Processing Equipment and Processing of Meat” workshop organized by the Sri Lanka Association of Animal Production (SLAAP) for the Technical Officers.-31<sup>st</sup> March & 1<sup>st</sup> April 2010.
2. Certificate Course on General Agriculture” Organized by the Agriculture Education Unit, Faculty of Agriculture-Offered under the Second Community Development and Livelihood Improvement Project (SCDLIP) of the Ministry of Economic Development from 24<sup>th</sup> January to 22<sup>nd</sup> March 2012.
3. Training Program offered to the School Teachers (GCE A/L) of the Central Province-Organized by the Agriculture Education Unit, Faculty of Agriculture, 20-21 November 2012.
4. Teacher Training Workshop for Aquatic BioResources Technology Teachers and In-service Instructors.-Organized by Department of Technology Education, National Institute of Education, 28<sup>th</sup> -29<sup>th</sup> October 2015.
5. Practical workshop for In-Service Advisors (ISA), Ministry of Education. -Organized by Ministry of Education- 19<sup>th</sup> and 20<sup>th</sup> December 2016.

6. Workshop conducted for newly recruited A/L Bio-systems Technology Teachers. Organized by Ministry of Education, 23<sup>rd</sup> to 29<sup>th</sup> January 2017.
7. Training Programme offered to the School Teachers (GCE A/L) of the Central Province- Organized by the Agriculture Education Unit, Faculty of Agriculture, 30<sup>th</sup> March to 4<sup>th</sup> April, 2015.
8. Training workshop conducted by Department of Technical Education, National Institute of Education on Livestock Product Technology for A/L Agricultural Science teachers, 12<sup>th</sup> - 14<sup>th</sup> June, 2017.
9. Training workshop conducted by Department of Technical Education, National Institute of Education on Livestock Product Technology for A/L Agricultural Science teachers, 27<sup>th</sup> - 29<sup>th</sup> June, 2017.
10. Practical Training Session on Animal Science” Organized by the Agriculture Education Unit, Faculty of Agriculture, to G.C.E. (A/L) students, 30<sup>th</sup> July, 2010.
11. Workshop on Improve the Quality of Grades 07 and 11 New Textbooks Compiled for 2016- Educational Publication Department, Sri Lanka.
12. Preparation of Teachers’ Guide for Advanced Level Agricultural Science and BioSystems Technology subjects - 2016, National Institute of Education.
13. Preparation of Practical Guide for Advanced Level Biosystems Technology subjects- 2016, National Institute of Education.

## **Awards**

- Sri Lanka National Research Council  
Presidential Award- 2016 for High impact research publications.  
Merit Award- 2009, 2010 & 2011 for High impact research publications.
- Awarded the Competitive Japanese Government Scholarship MEXT (Monbukagakusho) for postgraduate studies in Japan (2003-2009)
- The R.R. Appadurai Memorial Prize for the best performance in Animal Science up to 4100 series examinations in Faculty of Agriculture, University of Peradeniya -Awarded in 2001 General Convocation, University of Peradeniya

## **Publications**

**Google Scholar H Index-16**

<https://scholar.google.com/citations?user=cwHe604AAAAJ&hl=en>

ORCID no: <https://orcid.org/0000-0002-8563-2378>

## Indexed Journals

1. A. Deen, R. Visvanathan, D. Wickramaarchchi, N. Marrikkar, S. Nammi, **Barana C. Jayawardana** & R. Liyanage (2021). Chemical compositions and health benefits of coconut oil: an overview. *Journal of the Science of Food and Agriculture*. 101 (6), 2182-2193
2. Shishanthi Jayarathna, Hasitha Priyashantha, Monika Johansson, Janak K. Vidanarachchi, **Barana C. Jayawardana** & Ruvini Liyanage (2021). Probiotic enriched fermented soy-gel as a vegan substitute for dairy yoghurt. *Journal of Food Processing and Preservation*, 45 (1) e15092.
3. U. Wimalaweera, A. Deen, R. Visvanathan, S.M. Sewwandi, S. Wickramanayake, D. Wickramarachchi, N. Marrikkar, I. Ratnayake, **B.C. Jayawardana** and R. Liyanage (2020). Comparison of fermentation properties in raw and boiled legumes after simulated digestion. *Ceylon Journal of Science*, 49 (4) : 403-408
4. Afka Deen, Rizliya Visvanathan, Dhanushki Wickramarachchi, Nazrim Marrikkar, Sirinivas Nammi, **Barana C Jayawardana**, Ruvini Liyanage (2020). Chemical composition and health benefits of coconut oil: an overview. *Journal of the Science of Food and Agriculture*, (wileyonlinelibrary.com) DOI 10.1002/jsfa.10870.
5. R. Visvanathan, Q. Mallique, C. Jayathilake, **B.C. Jayawardana**, R. Liyanage & R. Sivakanesan (2020) Critical review on conventional spectroscopic  $\alpha$ -amylase activity detection methods: merits, demerits and future prospects. *Journal of The Science of Food and Agriculture*, 100 (7), 2836-2847.
6. J.K. Vidanarachchi, P. Lansakara, R. Liyanage & **B.C. Jayawardana** (2020). A comparative study on nutritional and nutraceutical properties of finger millet (*Eleusine coracana*) and rice (*Oryza sativa*). *World Journal of Biology Pharmacy and Health Sciences*, 1(01):017-024.
7. **B.C. Jayawardana**, V.B. Warnasoriya, G. Thotawaththage, I. Dharmasena & R. Liyanage (2019) Black and green tea (*Camellia sinensis*) extracts as natural antioxidants in uncured pork sausages. *Journal of Food Processing and Preservation*, 43 (2) e13870.
8. R. Liyanage, O.S. Perera, G.W.A.S. Lakmini, P. Weththasinghe, R. Visvanathan, C. Jayathilake, **B. C Jayawardana**, J. Vidanarachchi & R. Sivakanesan (2018) Boiled, sprouted and raw cowpea incorporated diets modulate High-Fat-Diet induced hypercholesterolemia in rats. *Food Science & Nutrition*, 6(6):1762-1769.
9. C. Jayathilake, R. Visvanathan, A. Deen, R. Bangamuwage, **B.C. Jayawardana**, S. Nammi & R. Liyanage (2018) Cowpea: An overview on its nutritional facts and health benefits. *Journal of the Science of Food and Agriculture*, 98 (13) :4793- 4806.

- 10 R Liyanage, C Kiramage, R Visvanathan, C Jayathilake, P Weththasinghe, R Bangamuwage, **B. C. Jayawardana** & J. Vidanaarachchi (2018). Hypolipidemic and hypoglycemic potential of raw, boiled, and sprouted mung beans (*Vigna radiata* L. Wilczek) in rats. *Journal of Food Biochemistry*, 42(1): e12422.
- 11 S. D. P. M. P. Chandika and R Liyanage, **B. C. Jayawardana**, W. V. A. H. Chathurika, J. K. Vidanarachchi (2019). Onion (*Allium cepa*) suppresses the Lipid Oxidation and Improves the Sensory Quality of Cooked Pork Sausages. *International Journal of Livestock Research.*, 9 (3).
- 12 B.R. Jayathilake, W.A.D.Nayananjalie, A.M.J.B.Adikari, **B.C. Jayawardana** & Ruvini Liyanage (2018).Dietary Supplementation of Dried Curry, Drumstick and Pepper Leaves on the Performance and Serum Characteristics of Broiler Chicken. *International Journal of Livestock Research*, 8 (10): 1-10.
- 13 R. Liyanage, D. W. M. M. M. Kumari C. Jayathilake , R. Visvanathan, S. Wimalasiri & **B.C. Jayawardana** (2017). Effect of Different Drying Methods on Antioxidant Activity of Star Fruits (*Averrhoa Carmabola* L.) *Journal of Nutrition and Diet Supplements*, 1 (1): 1-6.
- 14 Ruvini Liyanage, Saranya Gunasegaram, Rizliya Visvanathan, Chathuni Jayathilake, Pabodha Weththasinghe, **Barana Chaminda Jayawardna** & Janak Kamil Vidanarachchi (2016) Banana blossom (*Musa acuminate* Colla) incorporated experimental diets modulate serum cholesterol and serum glucose level in Wistar rats fed with cholesterol. *Cholesterol*, 2016: Article ID 9747412: 6 pages.
- 15 V. Rizliya, C. Jayathilaka, **B.C. Jayawardana** & R. Liyanage (2016). Health Beneficial Properties of Potato and Compounds of Interest. *Journal of the Science of Food and Agriculture* 96, 4850-4860, 2016.
- 16 L.H.M.P.R.Lansakara, R.Liyanage, K.A.Perera, I.Wijewardana, **B.C. Jayawardana** & J.K.Vidanarachchi (2016). Nutritional Composition and Health Related Functional Properties of Eleusine coracana (Finger Millet) *Procedia Food Science*, 6: 344-347.
- 17 S.D.Chandrasiri, R. Liyanage, J.K.Vidanarachchi, P.Weththasinhe and **Barana C. Jayawardana** (2016). Does processing have a considerable effect on the nutritional and functional properties of Mung bean (*Vigna radiata*)? *Procedia Food Science*, 6:352-355.
- 18 O.S. Perera, R. Liyanage, P. Weththasinghe, **B.C. Jayawardana**, J.K.Vidanaarachchi, P. Fernando, R. Sivakanesan (2016).Cowpea incorporated diets modulate serum lipids and serum antioxidant activity in Wistar rats .*Journal of the National Science Foundation of Sri Lanka*, 44: 69-76.

- 19 **Barana C Jayawardana**, Ruvini Liyanage, Nirosch Lalantha, Supeshala Iddamalgodha, Pabodha Weththasinghe (2015). Antioxidant and antimicrobial activity of drumstick (*Moringa oleifera*) leaves in herbal chicken sausages. *LWT-Food Science and Technology*, **64 (02): 1204-1208.**
- 20 R.Liyanage, O.S.Perera, P. Weththasinghe **Barana C. Jayawardana**, J. K. Vidanarachchi and R. Sivakaneshan (2014). Nutritional properties and antioxidant content of commonly consumed cowpea cultivars in Sri Lanka. *Journal of Food Legumes*, **27 (03): 215-217.**
- 21 R.Liyanage, C.Jayathilaka, O.S.Perera, S.A.Kulasooriya, **Barana C. Jayawardana**, S.Wimalasiri (2014). Protein and micronutrient contents of *Moringa oleifera* (Murunga) leaves collected from different localities in Sri Lanka. *Asian Journal of Agriculture and Food Science*, **02 (04): 264-269.**
- 22 **Barana C. Jayawardana**, Maki Yangihara, Kyu-Ho Han, Michihiro Fukushima and Mitsuo Sekikawa (2012), Effects of anthocyanin rich colored potato flakes on, lipid oxidation, instrumental color evaluation and sensory characteristics in cooked pork sausages. *Food Science and Technology Research*, 18 (3): 455-460.
- 23 **Barana C. Jayawardana**, Tomomi Hirano, Kyu-Ho Han, Hiroshi Ishii, Tomoko Okada, Shinichi Shibayama, Michihiro Fukushima, Mitsuo Sekikawa and Ken-ichiro Shimada (2011) Utilization of Adzuki bean extract as a natural antioxidant in cured and uncured cooked pork sausages. *Meat Science*, 89 (2): 150-153.
- 24 **Barana C. Jayawardana**, Ken-ichiro Shimada, Ruvini Liyanage, Michihiro Fukushima and Mitsuo Sekikawa (2009) Removing of central nervous tissues from dressed carcasses: Washing with a low concentration of lactic acid in spraying cabinet. *Food Control* 20(4):386-390.
- 25 **Barana C. Jayawardana**, Ken-ichiro Shimada, Michihiro Fukushima and Mitsuo Sekikawa (2009) Study on presence/absence of central nervous tissues as BSE specified risk material in processed and raw meat products in Japan. *Food Control*, 20(3):187-190.
- 26 Purevdorj Nyam-Osor, **Barana C. Jayawardana**, Juan Marcos Aro Aro, Ken-ichiro Shimada, Michihiro Fukushima and Mitsuo Sekikawa (2009) Identification of ubiquitin conjugated Protein Phosphatase Inhibitor 1 from postmortem bovine muscle. *Food Chemistry*, 115(4): 1509-1511.
- 27 **Barana C. Jayawardana**, T.Shimizu, H. Nishimoto, E. Kaneko, M. Testuska and A.Miyamoto (2006) Hormonal regulation of expression of growth differentiation factor-9 receptor type I and II genes in the bovine ovarian follicle. *Reproduction*, 131(3): 545-553.



- 28 T. Shimizu, **Barana C. Jayawardana**, M. Testuska and A.Miyamoto (2007) Differential effect of follicle-stimulating hormone and estradiol on expressions of vascular endothelial growth factor (VEGF) 120, VEGF164 and their receptors in bovine granulosa cells. *Journal of Reproduction and Development* , 53(1):105-112.
- 29 T.Shimizu, **Barana C. Jayawardana**, H. Nishimoto E. Kaneko, M. Testuska and A. Miyamoto, A (2006) Hormonal regulation and differential expression of neuropilin (NRP)-1 and NRP-2 genes in bovine granulosa cells. *Reproduction*, 131 (3): 555-559.
- 30 T.Shimizu, **Barana C. Jayawardana**, H. Nishimoto, E.Kaneko, M. Testuska and A.Miyamoto (2006) Involvement of the bone morphogenetic protein/receptor system during follicle development in the bovine ovary; Hormonal regulation of the expression of bone morphogenetic protein 7 (BMP-7) and its receptors (ActRII and ALK-2). *Molecular Cell Endocrinology*, 25: 249, 78-83.
- 31 Ruvini Liyanage, Yumi Nakamura, Ken-ichiro Shimada, Mitsuo Sekikawa, **Barana Chaminda Jayawardana**, Kyu-Ho Han, Tomoko Okada, Kiyoshi Ohba, Yoshihisa Takahata, Fumiki Morimatsu, Michihiro Fukushima (2009) Porcine artery elastin preparation reduces serum cholesterol level in rats. *Journal of Functional Foods*, 1 (4),405-409.
- 32 Ruvini Liyanage, Kyu-Ho Han, Ken-ichiro Shimada, Mitsuo Sekikawa, Yoshihiko Tokuji, Kiyoshi Ohba, Keiko Sasaki , **Barana Chaminda Jayawardana** , Michihiro Fukushima (2009) Potato and soy peptides alter caecal fermentation and reduce serum non-HDL cholesterol in rats fed cholesterol. *European Journal of Lipid Science and Technology*,111(9):884-892.
- 33 Ruvini Liyanage, Saori Minamino, Yumi Nakamura, Ken-ichiro Shimada, Mitsuo Sekikawa, Keiko Sasaki, Kiyoshi Ohba, **Barana Chaminda Jayawardana**, Shin-ichi Shibayama and Michihiro Fukushima (2010) Preparation method modulates hypocholesterolaemic responses of potato peptides. *Journal of Functional Foods*, 2 (2),118-125.

### **Book Chapters published:**

1. Ruvini Liyanage, **Barana C. Jayawardana** and Suranga P. Kodithuwakku (2013). "Potential Novel Therapeutics: Some Biological Aspects of Marine-derived Bioactive Peptides". In Se-Kwon Kim (Ed.), *Marine proteins and peptides: Biological Activities and Applications* (pp. 323-349), Wiley –Blackwell publications, UK.

**List of Abstract presentations (International)**

1. K. Shimada, A.Sago, **Barana C. Jayawardana**, T.Hayakawa, K.-H. Han, M. Fukushima, Anti-oxidant effect of tomato powder in cooked pork sausages. 61<sup>st</sup> International Congress of Meat Science and Technology, August 23-28, 2015, Clermont-Ferrand, France.
2. **Barana C. Jayawardana**, P. Weththasinghe, N.L.B.R. Liyanage, G. H. Thotawattage, Antioxidant effect of black tea extracts in pork sausages. Public Health Conference, July 12-14, 2014, Bangkok, Thailand.
3. E.P. Pathirana, R. Liyanage, N. Lalantha, I.S.T. Iddamalgoda, **Barana C. Jayawardana**, Antioxidant and antimicrobial activity of drumstick (*Moringa oleifera*) leaves in herbal chicken sausages. 13<sup>th</sup> ASEAN food Conference, September 9-11, 2013, Singapore.
4. M.T.G.S.W. Gunawardana, N. Lalantha, D.T. Nanayakkara **Barana C. Jayawardana**, Partial salt replacement of chicken sausages by combination of potassium lactate and calcium ascorbate. 13<sup>th</sup> ASEAN Food Conference, September 9-11, 2013, Singapore.
5. G.W.A.S. Lakmini, U.I.L. Perera, G.D.R.K. Perera, O.S. Perera, N.W.K. Wijesuriya, **Barana C. Jayawardana**, J.K. Vidhanarachchi, R. Liyanage, Cowpea (*Vigna unguiculata* L. Walp.) incorporated experimental diets modulate serum lipids and ceacal microflora in Wistar rats (*Rattus norvegicus*). 13<sup>th</sup> ASEAN Food Conference, September 9-11, 2013, Singapore
6. Perera, U.I.L., **Jayawardana, B.C.**, Vidanarachchi, J.K. and Liyanage, R. Cowpea (*Vigna unguiculata* L. Walp) incorporated experimental diets modulate the serum lipids, liver antioxidant capacity and caecal microflora in Wistar rats (*Rattus norvegicus*). 8th Asia Pacific Conference on Clinical Nutrition, 9-12 June, 2013, Tokyo, Japan. .
7. Ken-ichiro Shimada, **Barana C. Jayawardana**, K.Uchino, K.H. Han, Michihiro Fukushima and Mitsuo Sekikawa. Antioxidant effect of tunic onion powder in cooked pork sausages. 57<sup>th</sup> International Congress of Meat Science and Technology, August 7-12, 2011, Ghent, Belgium.
8. Ken-ichiro Shimada, T. Hirano, **Barana C. Jayawardana**, T. Okada, K.H. Han, Michihiro Fukushima and Mitsuo Sekikawa. Antioxidant effect of Adzuki bean powder in cooked pork sausages. 56<sup>th</sup> International Congress of Meat Science and Technology, August 15-20, 2010, Jeju, South Korea.

9. **Barana C. Jayawardana**, Ken-ichiro Shimada, Michihiro Fukushima and Mitsuo Sekikawa. Study on presence/absence of central nervous tissues on meat products. 55<sup>th</sup> International Congress of Meat Science and Technology, August 16-21, 2009, Copenhagen, Denmark.
10. **Barana C. Jayawardana**, Ken-ichiro Shimada, Michihiro Fukushima and Mitsuo Sekikawa. Most effective method of removing SRM from carcasses. 109<sup>th</sup> Meeting of the Japanese Society of Animal Science, March 27-30, 2008, Mitho, Ibaraki, Japan.
11. K. Shimada, **Barana C. Jayawardana**, M. Yanagihara, K. H. Han, M. Fukushima and M. Sekikawa. Anti-oxidant effect of color potato flakes in cooked pork sausages. 53<sup>rd</sup> International Congress of Meat Science and Technology, August 5-10, 2007, Beijing, China.
12. Liyanage Ruvini, Kyu-Ho Han, Hiroko Yamamoto, Ken-ichiro Shimada, Mitsuo Sekikawa, **Barana C. Jayawardana**, Kiyoshi Ohba and Michihiro Fukushima. Potato peptides reduce serum lipids in rats fed a cholesterol-enriched diet. In the Annual Meeting of Japanese Society of Nutrition and Food Science, May 1-5, 2007, Kyoto, Japan.
13. Purevdorj Nyam-Osor, **Barana C. Jayawardana**, M. Fukushima K. Shimada and M. Sekikawa. Existence of ubiquitin conjugates in porcine and equine post-mortem muscles. 62<sup>nd</sup> Annual Meeting of Hokkaido Animal Science and Agriculture Society, September 5-6, 2007, Obihiro University, Obihiro, Japan.
14. **Barana C. Jayawardana**, Purevdorj Nyam-Osor, Kami Takahara, M. Fukushima K. Shimada and M. Sekikawa. Changes in sarcoplasmic protein fraction during post-mortem storage. 61<sup>st</sup> Annual Meeting of Hokkaido Animal Science and Agriculture Society, September 5-6, 2006, Hokkaido University, Sapporo, Japan.
15. T. Shimizu, **Barana C. Jayawardana**, H. Nisimoto, E. Kaneko, M. Tetsuka and A. Miyamoto. A. Role of GDF-9 and BMP-7 on bovine follicular selection. 106<sup>th</sup> Meeting of the Japanese Society of Animal Science, March 29-31, 2006, Kyushu University, Fukuoka Japan.
16. **Barana C. Jayawardana**, T. Shimizu, H. Nishimoto, E. Kaneko, M. Testuska and A. Miyamoto. Involvement of growth differentiation factor-9 receptor type-I and type-II on bovine follicular selection. 98<sup>th</sup> Meeting of the Japanese Society of Animal Reproduction, September, 2005, Shizoka, Japan.
17. Ken-Go Hayashi, Motozumi Matsui, Thomas J. Acosta, **Barana C. Jayawardana**,

Ayako Sato, Masayaki Ohtani and Akio Miyamoto. Development of co-dominant follicles in the absence of the corpus luteum. A possible role of progesterone in follicle selection in the cow. 97<sup>th</sup> Meeting of the Japanese Society of Animal Reproduction, September, 2004, Hiroshima, Japan.

18. M. Matsui, K. G. Hayashi, T. J. Acosta, **Barana C. Jayawardana**, A. Sato, M. Ohtani and A. Miyamoto. The Absence of the corpus luteum induces co-dominant follicle during the first follicular wave in the cow. Proceedings of the 37<sup>th</sup> annual meeting of the Society for the Study of Reproduction, British Columbia, Canada. August 1-4, 2004. *Biology of Reproduction* 2004 special issue (469), 199.
19. S.Kodithuwakku, **Barana C. Jayawardana**, K.B.M.Nishany, A. Miyamoto and Missaka P.B. Wijayagunawardane. Growth hormone and insulin like growth factor-1 axis in the bovine oviduct: Up regulation during the periovulatory period. In proceedings of conference on Sri Lanka-Japan collaborative research March 30-31, 2013.

#### **List of Abstract presentations (National)**

1. H. W. Cyril, **Barana C. Jayawardana** and A.M.J.B. Adikari. Effect of curing on quality characters of beef and buffalo ham. Proceedings of the 8<sup>th</sup> Annual Research Sessions of University of Peradeniya, Sri Lanka, 2001, (6) 15.
2. H.W. Cyril, **Barana C. Jayawardana** and P.K.P. Samanthilaka. Carcass quality of Lanka cattle. 57<sup>th</sup> Annual Session, Sri Lanka Association for the Advancement of Science, 2001, Sec. B, 66.
3. H. W. Cyril, **Barana C. Jayawardana** and W. A. I. S.Fernando. Preparation and assessment of some sensory and microbiological properties of smoked fish. 57<sup>th</sup> Annual Session, Sri Lanka Association for the Advancement of Science, 2001, Sec. B, 67.
4. H.W. Cyril, **Barana C. Jayawardana**, A.A.N. Lalantha and S. Perera. Development of chicken sausage for baking. 57<sup>th</sup> Annual Session, Sri Lanka Association for the Advancement of Science, Sri Lanka, 2001, Sec. B, 86.
5. H. W. Cyril, **Barana C. Jayawardana**, C. M. B. Dematawewa and S. K. N. Rubasinghe. Effect of storage temperature on quality of commercially prepared beef, chicken and pork ham. 56<sup>th</sup> Annual Session, Sri Lanka Association for the Advancement of Science, Sri Lanka, 2000, Sec. B, 109.
6. **Barana C. Jayawardana**, S. Premaratne and K. Samarasinghe. Effect of effective microorganism, enzymes and yeast on performance of growing rabbits when fed

- with a low cost ration and broiler finisher. 56<sup>th</sup> Annual Session, Sri Lanka Association for the Advancement of Science, Sri Lanka, 2000, Sec.B,118.
7. A.M.A.U. Alahakoon, J.K. Vidanarachchi, **B.C. Jayawardana**, C.M.B. Dematawewa and H.W.Cyril. Determination of residual nitrite levels in some processed meat products available in Sri Lanka. Proceedings of the Peradeniya University Research Sessions, Sri Lanka, Vol.15, 16<sup>th</sup> Dec. 2010.
  8. R.M.H.Tharangani, W.H.R.E. Fernando, **B.C.Jayawardana**, M. Imitiaz and H.W.Cyril. Effect of ante-mortem factors and slaughtering conditions on physical quality of commercial broiler chicken carcasses. Proceedings of the Peradeniya University Research Sessions, Sri Lanka, Vol. 16, 24<sup>th</sup> Nov. 2011.
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## Research grants received

1. R. Liyanage, **Barana C. Jayawardana**, JK Vidanaarachchi  
 Title: *Investigate the effect of cowpea on the accumulation of visceral fat mass and oxidative status using animal experimental model*  
**National Science Foundation Research grant-2011** Grant No.  
 RG/2011/AG/09, amount-SL Rupees 1.2 million

2. S. Pathmaraja, R.M.Fonseka, **Barana. C. Jayawardana**, W.M.T.P. Ariyaratne, P. Bandaranayake, R.H.G. Ranil, H. Fonseka & R. Liyanage  
Title: Development of Household Food Security Model for Poverty Stricken Areas of Sri Lanka  
**National Science Foundation –National Thematic Research Program Food Security - 2012** Grant No. NTRP/2012/FS/PG-05/P-01, amount SL Rupees 5.0 million
3. P. Banadaranayake, J.K.Vidanarachchi, Barana **C. Jayawardana**, D.L.I wijesekara & D.D. Croos  
Title : assessment of quantity & quality of *Kappaphycus alvarezii* Doty (Doty) yield different cultivation systems for viable commercial farming in Sri Lanka.  
**JICA Funded -2021 to present**

**Reviewer to following Journals:**

International Journal of Food Science & Technology  
LWT-Food Science and Technology  
International Journal of Livestock and Reserach

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



17<sup>th</sup> November, 2022