



## **Prof. E.D.N.S. Abeyrathne**

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### **Education**

**PhD in Biomodulation** (2010- 2013) in Department of Agricultural Biotechnology, College of Agriculture and Life Science, Seoul National University, Seoul, South Korea

**M.Sc. in Dairy and Meat Product Technology** (2005-2010), Postgraduate Institute of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka.

**B.Sc. Agriculture (Sp)** (2001-2005), Specialized in Animal Science, Faculty of Agriculture, University of Peradeniya, Peradeniya, Sri Lanka.

### **Professional Experience**

- Visiting Professor in Department of Animal Science & Technology, Sunchon National University, Suncheon, South Korea from 01.05.2021 to now
- Professor in Animal Science in the Department of Animal Science, Uva Wellassa University, Sri Lanka, Badulla, Sri Lanka from 24-05-2019 to now
- Senior Lecturer (G II) in the Department of Animal Science, Uva Wellassa University, Sri Lanka, Badulla, Sri Lanka from 02-09-2013 to 24-05-2019.
- Visiting Scholar in Meat Science Laboratory in Department of Animal Science, Iowa State University, Ames, IA from 15-12-2010 to 15-02-2011 and 06-11-2012 to 13-02-2013.
- Research Assistant in Protein Chemistry Laboratory in WCU Biomodulation, Department of Agricultural Biotechnology, Seoul National University, Seoul, Korea from 2010 August to 2013 August.

- Lecturer in the Department of Animal Science, Faculty of Animal Science and Export Agriculture, Uva Wellassa University, Sri Lanka, Badulla from 15- 07- 2008 to 01-09-2013.
- Demonstrator (temporary) in the Department of Animal Science, Faculty of Animal Science and Export Agriculture, Uva Wellassa University, Sri Lanka, Badulla from 26- 11- 2007 to 14-07-2008.
- Production Executive in Ceylon Cold Stores, Ranala from 01-12-2005 to 24-11-2007(One year as a management trainee 01-12-2005 to 01-12-2006).
- Six months working experience as a Temporary Demonstrator in the Department of Animal Science, Faculty of Agriculture, University of Peradeniya, Sri Lanka (May, 2005- November, 2005).
- Two weeks Industrial Training in MILCO Ambewela Milk Processing Plant.
- Six-month training program in Applied Farm Management and Extension program at Mahailuppallama Research station and Sub campus.

### **Research work interest**

- Isolation and separation of value-added components from poultry eggs and fresh water fish
- Identification and production of bioactive peptide production from poultry eggs and fresh water fish and their application in food and pharmaceutical industries
- Development of functional foods to control type II diabetics and obesity
- New product development from fresh water fish and poultry eggs
- Identifying the hazard points in commercial food processing plants and minimizing the hazard occurrence with cost effective methods

### **Teaching Activities**

- Egg Product Technology
- Aquatic Product Technology
- Food Safety and Quality Management

### **Service Activities (Departmental, University, National and International)**

- Served as a chairperson in 2<sup>nd</sup> International Conference on Food Quality, Safety and Security 2018 organized by University of Sri Jayawardapura, Sri Lanka held on 25-26<sup>th</sup> October, 2018
- Served as a chairperson in 3<sup>rd</sup> WinC2018 on 24-25, August, 2018 organized by the Wayamba University of Sri Lanka
- Team leader for the “Programme Design and Development” for the Programme Review of Animal Science Degree Programme of Uva Wellassa University 2019.
- Panel of judge for the Sri Lanka Inventors Commission for evaluating inventors from 2016-2018 organized by the Sri Lanka Inventors Commission, Sri Lanka

- Team leader for the “Student Assessment and Awards” for the institutional review of Uva Wellassa University, 2017.
- Secretary for the International Research Symposium- 2017 (IRSUWU2017), Uva Wellassa University, Sri Lanka
- Served as a member of Panel of Judge in FAuRS 2017 held on 12<sup>th</sup> January, 2018 organized by the Faculty of Agriculture, University of Peradeniya
- Served as a member of Panel of Judge in 29<sup>th</sup> Annual Congress held on 17<sup>th</sup> November, 2017 organized by Postgraduate Institute of Agriculture, University of Peradeniya
- Coordinator of the Curriculum Revision (2014-16) – Animal Science Degree Programme, Uva Wellassa University, Badulla, Sri Lanka
- Member of the Curriculum Revision Committee (2015-16)- B.Sc. (Agro-Industrial Management)- Aquinas University Collage, Colombo, Sri Lanka
- Member of the Curriculum Revision Committee (2015-16)- BSc Aquatic Resources Technology Degree Programme, Uva Wellassa University, Badulla, Sri Lanka
- Member of the Curriculum Revision Committee (2014-16)- Export Agriculture Degree Programme, Uva Wellassa University, Badulla, Sri Lanka
- Secretary of the Faculty of Animal Science and Export Agriculture for the Uva Wellassa University Research Symposium, 2015.
- Secretary of the Animal Science Course committee from April, 2014 to April 2015.
- Served as a member of Panel of Judge in 4<sup>th</sup> Research Symposium, Uva Wellassa University held on 12-13 December, 2013

### **Professional Associations**

- Life member in SLAAP
- Member of IFSTSL
- Member of WPSA-SL (23299)

### **Honors and Awards**

- Presidential awards for the scientific publications in the year 2016 awarded by the Democratic Socialist Republic of Sri Lanka
- Presidential awards for the scientific publications in the year 2015 awarded by the Democratic Socialist Republic of Sri Lanka
- Presidential awards for the scientific publications in the year 2014 awarded by the Democratic Socialist Republic of Sri Lanka
- UWU Research Award for Scientific Publication in an Indexed Journal (2014, 2015, 2016, 2017, 2018, 2019)
- Certificate of Recognition based on Hirsch Index (h-index) as reported by the google Scholar under the Tire 4. Offered by the Uva Wellassa University, Sri Lanka
- Certificate of Recognition based on Hirsch Index (h-index) as reported by the google Scholar under the Tire 3. Offered by the Uva Wellassa University, Sri Lanka
- Young Scientist research award in WCU Biomodulation, 2013

- Second place awarded in the poster retreat of WCU Biomodulation Major 2012 under PhD category in WCU Biomodulation Major, Seoul National University, Korea
- Third place awarded in the poster retreat of WCU Biomodulation Major 2011 under PhD category, 4<sup>th</sup> International Biomodulation Symposium, Seoul National University, Korea
- Second best presentation award at the 14<sup>th</sup> annual students' research session, Dept. of Animal Science, University of Peradeniya, Sri Lanka in 2005

### **Reviewing of scientific manuscripts**

- Reviewing panel member of the Poultry Science Journal
- Reviewing panel member of the Food Review International
- Reviewing panel member of the Animal Bioscience
- Reviewing panel member of the Animal Industry and Technology
- Reviewing panel member of the IRA publications, India
- Reviewing panel member of the Journal of Agriculture and Value Addition
- Reviewing panel member of the Journal of Technology and Value Addition
- Reviewing panel member of the Tropical Agriculture & Extension
- Reviewing panel member of the Uva Wellassa Research Symposium

### **Publications**

#### **Referred Journal Articles**

1. Jayathissa R.C.M., Rupasinghe R.A. and **Abeyrathne E.D.N.S.** 2021. Extraction of Crude Protein from *Hilsa kelee* and Determine the Functional Properties of the Crude Extract. Journal of Technology and Value Addition. 3(1):45-59
2. Rathnapala E.C.N., Ahn D.U. and **Abeyrathne E.D.N.S.** 2021. Enzymatic Hydrolysis of Ovotransferrin and the Functional Properties of Its Hydrolysates. Food Science and Animal Resources. 41(4):608-622. DOI: <https://doi.org/10.5851/kosfa.2021.e19>
3. Rathnapala E.C.N., Ahn D.U. and **Abeyrathne E.D.N.S.** 2021. Functional Properties of Ovotransferrin from Chicken Egg White and Its Derived Peptides- A Review. Food Science and Biotechnology. 30 (5):619-630
4. Wijesinghe S. K. D., **Abeyrathne E.D.N.S.**, Vidanarachchi J. K., Rajapakse R.P.N.P. 2021. Bioactive Properties of Fish Protein Hydrolysates from Amazon Sailfin Catfish (Scavenger Fish; *Pterygoplichthys pardalis*) from Victoria Reservoir in Sri Lanka. Journal Tropical Agriculture. 32(02):219-228
5. Lelwela G.K.T.N., Wijesinghe S.K.D., Himali S.M.C., **Abeyrathne E.D.N.S.** 2021. Effect of Selected Wood Smoke on Physicochemical and Sensory Qualities of Tilapia (*Oreochromis niloticus*). Journal of Aquatic Food Product Technology. 30(01): 85-94
6. Maldeniya M.U.S., Egodayana K.P.U.T and **Abeyrathne E.D.N.S.** 2020. Extraction of Crude Protein from *Sargassum crassifolium*, Harvested from South

- Coast of Sri Lanka and to Determine the Functional Properties of the Extract. Journal of Technology and Value Addition. 02(02): 39-64
7. Maldeniya M.U.S., Egodayana K.P.U.T and **Abeyrathne E.D.N.S.** 2020. Extraction of Crude Protein from *Ulva lactuca*, Harvested from South Coast of Sri Lanka and to Determine the Functional Properties of the Extract. Sri Lanka Journal of Animal Production. 12: 11-21
  8. Thilanja, G.P.D.D.S., Dissanayake, K.S.M., Kariyawasam, M.G.T.R., **Abeyrathne E.D.N.S.** 2020. Extraction of Crude Collagen from Yellowfin Tuna (*Thunnus albacares*) Skin and Determination the Functional Properties of Its Hydrolysates. Journal of Technology and Value Addition. 02 (01):21-37
  9. Sandipani, H.A.D.C.L., Dharmarathna, E.K.G.P.U., Wimaladharma, S.T.C.I., **Abeyrathne E.D.N.S.** 2020. Smart food safety management framework for small scale restaurants. Journal of Agriculture and Value Addition. 03(2):41-45
  10. Dilhani, E.H.P.U., Dissanayake, K.S.M., Alakolanga, A.G.A.W., **Abeyrathne, E.D.N.S.** 2019. Extraction of Crude collagen from *Pterygoplichthys pardalis* skin and determine the functional properties of its hydrolysates. Journal of Agriculture and Value Addition. 01 (02):01-20
  11. Ediriweera, T.K., Aruppala. A.L.Y.H. and **Abeyrathne, E. D. N. S.** 2019. Analysis of bioactive properties of Fish Protein Hydrolysates from *Scomber japonicas* Canned Fish Processing Waste. Journal of Technology and Value Addition.01 (01):31-45
  12. Jayasiri, W.T.P., Aruppala, A.L.Y.H., Pitawala, H.M.J. and **Abeyrathne, E.D.N.S.** 2018. The effect of Beeswax, rubber seed extract (*Hevea brasiliensis*) and Carrageenan on internal and sensory attributes of chicken eggs stored under room temperature. Sri Lanka Journal of Animal Production. 10: 15-20
  13. K.G.P.U. Dharmarathna, T.R. Liyanawickramasinghe, A.L.Y.H. Aruppala, **E.D.N.S. Abeyrathne.** 2018. A Study on level of Microbiological contamination in made tea as a raw material in commercial tea bagging factory and its workers hand hygiene. Journal of Agriculture and Value Addition. 1(02):49-59
  14. Wirasagoda, W.A S.M., Surige D., Jayasena, D.K.D.D. and **Abeyrathne, E.D.N.S.** 2018. A feasibility plan for implementing FSSC 22000 standard, by gap analyzing of existing HACCP system and FSSC 22000 standard. Journal of Agriculture and Value Addition. 1(01):15-24
  15. **Abeyrathne, E.D.N.S.**, Huang, X. and Ahn, D.U. 2018. Antioxidant, Angiotensin-converting enzyme inhibitory activity and other functional properties of egg white proteins and their derived peptides. Poultry Sci. 97 (4):1462-1468 <https://doi.org/10.3382/ps/pex399>
  16. **Abeyrathne, E.D.N.S.**, Amarasena, A.P., Nanayakara, G.H. and Alakolanga, A.G.A.W. 2017. Extraction and Comparison of Physiochemical properties of lipids from Catla (*Catla catla*) and Yellowfin Tuna (*Thunnus alacares*) fish skin. Sri Lanka Journal of Animal Production. 09:10: 12-24
  17. Martyn, A.M.L.K., Aruppala, A.L.Y.H. and **Abeyrathne, E.D.N.S.** 2017. Development of Low Cost Prawn Flavored Spicy Cracker with Prawn Waste and Drumstick Leaves. International Journal of Research in Agricultural Science (IJRAS). 4 (02): 102-105 <http://ijras.org/index.php/issue?view=publication&task=show&id=232>
  18. Edirisinghe, E.D.M.T., Jayasinghe, J.M.P., Himali, S.M.C. and **Abeyrathne, E.D.N.S.** 2017. Effect of beeswax and Gammalu (*Pterocarpus marsupium*) latex coating on internal and sensory attributes of chicken eggs stored at room temperature. International Journal of Research in Agricultural Science (IJRAS). 4 (02): 76-81 <http://ijras.org/index.php/issue?view=publication&task=show&id=225>

19. Randeniya, R.D.I.P, Jayasinghe, J.M.P. and **Abeyrathne, E.D.N.S.** 2016. Development of a Ready to Eat Breakfast Cereal with Incorporating Ovalbumin from Chicken Egg White. International Journal of Research in Agricultural Science (IJRAS). 3 (05): 255-258  
<http://ijras.org/index.php/issue?view=publication&task=show&id=190>
20. Kumarathunga, N.C., Jayasinghe, J.M.P. and **Abeyrathne, E.D.N.S.** 2016. Development of a sea lettuce (*Ulva lactuca*) and catla (*Catla catla*) incorporated protein and fiber rich fish burger. International Journal of Research in Agricultural Science (IJRAS). 3(04): 229-233  
<http://ijras.org/index.php/issue?view=publication&task=show&id=185>
21. Tharaka, T.H.S., Aruppala, A.L.Y.H., Jayasinghe J.M.P. and **Abeyrathne, E.D.N.S.** 2016. Development of a bread spread using mature flower buds of *Rhizophora apiculata*. Sri Lanka Journal of Food and Agriculture. 2(2): 29-38  
<http://slcarp.lk/jvolume2.2.php>
22. **Abeyrathne E.D.N.S.**, Lee, H.Y., Jo, C., Suh, J.W. and Ahn, D.U. 2016. Enzymatic hydrolysis of ovomucin and the functional and structural characteristics of peptides in the hydrolysates. Food Chemistry. 192: 107-113  
<http://www.sciencedirect.com/science/article/pii/S0308814615009474>
23. Jeewantha, P.D.A. and **Abeyrathne, E.D.N.S.** 2015. Incorporation of Salt Extracted Compounds from Yellow Fin Tuna (*Thunnus albacares*) to produce a Fish Flavored Vegetable Burger. Sri Lanka Journal of Animal Production. 07&8:08-15
24. Silva, K.A.H. and **Abeyrathne, E.D.N.S.** 2015. Development of high protein drink using poultry eggs. Sri Lanka Journal of Animal Production. 07&8:22-29
25. Ishani A.H.M.E. Herath, Jayasinghe J.M. Priyanath, Dong U Ahn, E.D. **Nalaka S. Abeyrathne.** 2015. Use of lysozyme from chicken egg white as a nitrite replacer in an Italian-type chicken sausage. Functional Food in Health and Diseases. 5(9): 320-330 <http://ffhdj.com/index.php/ffhd/article/view/217>
26. **Abeyrathne E.D.N.S.**, Lee, H.Y. Jo, C., Suh, J. W. and Ahn, D.U. 2015. Enzymatic hydrolysis of ovomucoid and the functional properties of its hydrolysates. Poultry Sci. 94 (9) :2880-2287  
<http://ps.oxfordjournals.org/content/early/2015/07/19/ps.pev196.full>
27. **Abeyrathne E.D.N.S.**, Lee, H.Y. Jo, C., Nam, K.C. and Ahn, D.U. 2014. Enzymatic hydrolysis of ovalbumin and functional properties of the hydrolysates. Poultry Sci. 93 (10) 2678-2686 <http://www.ncbi.nlm.nih.gov/pubmed/26195809>
28. Lee, H. Y., **Abeyrathne, E.D.N.S.** Choi, I., Suh, J.W. and Ahn, D.U. 2014. Sequential separation of IgY and Phosvitin from chicken egg yolk without using organic solvents. Poultry Sci.93(10):2668-2677  
<http://www.ncbi.nlm.nih.gov/pubmed/25085938>
29. **Abeyrathne E.D.N.S.**, Lee, H.Y. and Ahn, D.U. 2014. Separation of ovotransferrin and ovomucoid from chicken egg white. Poultry Sci. 94:1010-1017  
<http://ps.oxfordjournals.org/content/93/4/1010.full>
30. **Abeyrathne E.D.N.S.**, Lee, H.Y. and Ahn, D.U. 2014. Sequential separation of lysozyme, ovomucin, ovotransferrin and ovalbumin from egg white. Poultry Sci. 94:1001-1009 <http://ps.oxfordjournals.org/content/93/4/1001.full>
31. **Abeyrathne E.D.N.S.**, Lee, H.Y. and Ahn, D.U. 2013. Egg white proteins and their potential use in food processing or as nutraceutical and pharmaceutical agents- A review. Poultry Sci. 92:3292-3299. <http://www.ncbi.nlm.nih.gov/pubmed/24235241>

32. **Abeyrathne E.D.N.S.**, Lee, H.Y. and Ahn, D.U. 2013. Sequential separation of lysozyme and ovalbumin from chicken egg white. Korean J. Food Sci. Anim. Res. 33(4): 501-507. <http://www.ncbi.nlm.nih.gov/pubmed/24706978>
33. **Abeyrathne E.D.N.S.**, Lee, H.Y., Ham, J.S. and Ahn, D.U. 2013. Separation of ovotransferrin from chicken egg white without using organic solvents. Poultry Sci. 92:1091-1097. <http://ps.oxfordjournals.org/content/92/4/1091.long>
34. **Abeyrathne E.D.N.S.**, Jayasena D.K.D.D. and Silva K.F.S.T. 2009. Development of fruit yoghurt by incorporation pineapple (*Ananas comosus*) preserved in sugar syrup with preservatives and oven dried under vacuum. Sri Lanka Journal of Animal Production. Vol 05, Issue 01, August 2009. Sri Lanka. 79-88 pp.
35. Jayasena D.K.D.D., **Abeyrathne E.D.N.S.** and H.W. Cyril. 2009. Development of a pork based white sausage. Sri Lanka Journal of Animal Production. Vol 05, Issue 01, August 2009. Sri Lanka. 45-54 pp.

### **Book Chapters**

1. **Abeyrathne, E.D.N.S.** Huang, X and Ahn, D.U. (2019). Advances in the Separation of Functional Egg Proteins- Egg white Proteins. Eggs as Functional Food and Nutraceuticals for Human Health. (eds: Wu, J.). Pp. 329-347. Royal Society of Chemistry.
2. Huang, X, **Abeyrathne, E.D.N.S.** and Ahn, D.U. (2019). Advances in the Separation of Functional Egg Proteins- Egg Yolk Proteins. Eggs as Functional Food and Nutraceuticals for Human Health. (eds: Wu, J.). pp. 348-358. Royal Society of Chemistry.
3. **Abeyrathne, E.D.N.S.** and Ahn, D.U. (2017). Function and Separation of Ovotransferrin from chicken Egg. In: Egg Innovation and Strategies for Improvement. Egg Innovations and Strategies for Improvements. (eds: Hester, P.Y.) Pp. 243-250. Academic Press, Oxford, UK.
4. **Abeyrathne, E.D.N.S.**, Himali, S.M.C. and Ahn, D.U. (2016). Egg yolk cholesterol and its function in human health. In: Handbook of Cholesterol. (eds: Watson, R.R. and Meester, F.D.). Pp399-412. Wageningen Academic Publishers, Netherlands
5. **Abeyrathne, E.D.N.S.** and Ahn, D.U. (2015). Isolation of value-added components from egg white and their potential uses in food, nutraceuticals and pharmaceutical industries. In: Handbook of eggs in human function. (eds: Watson, R.R. and Meester, F.D.). Pp35-52. Wageningen Academic Publishers, Netherlands

### **Conference Proceedings (Full Papers)**

1. Karunarathne, U.H.D.A., Alakolanga A.G.A.W. **Abeyrathne E.D.N.S.** 2019. Extraction of crude coconut oil from industrial coconut waste and determination of its physic-chemical and antimicrobial properties. 5<sup>th</sup> Annual Research Session, IFSTSL, 03rd August, 2019. Pp 21-26

2. Ranasinghe, H.D.P., Joseph, R., Dharmarathna, E.K.G.P.U., Ranasinghe, M.K., **Abeyrathne E.D.N.S.** 2019. Total quality improvement in commercially established pasteurized milk plant under ISO 22000:2005 standard. 5<sup>th</sup> Annual Research Session, IFSTSL, 03rd August, 2019. Pp 65-70
3. K.G.P.U. Dharmarathna, T.R. Liyanawickramasinghe, A.L.Y.H. Aruppala, **E.D.N.S. Abeyrathne.** Isolation and Identification of possible Microbes Associated with Black Tea in a Commercial Tea Blending Process Factory. Conference Proceeding id International Conference in Food Quality, Safety and Security (FOODQualSS 2018), 24-25 October, 2018, 55-61
4. Madushani, M.A.A., Aruppala, A.L.Y.M, **Abeyrathne, E.D.N.S.** Determination of antimicrobial and metal chelating properties of peptides derived from ovalbumin using protease enzyme under different conditions. 4<sup>th</sup> Annual Research Session, IFSTSL, 05<sup>th</sup> August, 2017. Pp11-15
5. Jayasiri, W.T.P, Aruppala A.L.Y.H, **Abeyrathne E.D.N.S.** 2017. The effect of Beeswax and rubber seed extract (*Hevea brasiliensis*) on internal and sensory attributes of chicken eggs stored under room temperature. XVI<sup>th</sup> Annual Scientific sessions, World Poultry Science- Sri Lanka Branch. September 15<sup>th</sup>, 2017. Pp 5-8
6. Aruppala A.L.Y.H, **Abeyrathne E.D.N.S.** 2017. Determining the Functional properties of hydrolyzed Ovomucin incorporated Fish burger Produced from Catla (*Catla catla*). 3<sup>rd</sup> Annual Research Session, IFSTSL, 05<sup>th</sup> August, 2017. Pp 06-09
7. Sandalanka, H.G.A.D.K., Jayasinghe, J.M.P. and **Abeyrathne, E.D.N.S.** 2016. Development of a simple food safety model for sustainable food security of university cafeteria. AFTEC-2016, New Delhi, India, 17<sup>th</sup> January, 2016. 03 (01): 01-03  
[http://www.krishisanskriti.org/vol\\_image/10Jun201605063517%20%20%20%20%20%20%20%20%20E%20D%20N%20S%20Abeyrathne\(Srilanka\)%20%20%20%20%201-3.pdf](http://www.krishisanskriti.org/vol_image/10Jun201605063517%20%20%20%20%20%20%20%20%20E%20D%20N%20S%20Abeyrathne(Srilanka)%20%20%20%20%201-3.pdf)
8. Ganegoda, G.V.N.K., **Abeyrathne, E.D.N.S.** and Ahn, D.U. 2015. Enhancing texture stability and gel formation of fish SURIMI produce from swordfish (*Xiphias gladius*) with replacing existent cryoprotectants from ovomucoid. IFSTSL Research Session. 15<sup>th</sup> December 2015. Pp37-40.
9. Illangakoon, I.M.I.V. and **Abeyrathne, E.D.N.S.** 2015. Development of a Fish Paste with *Oreochromis mossambicus* and *Coccina grandis* as a natural blood glucose reduction food. IICBEE, Penang, Malaysia 10-11, February 2015. 5-10.  
<http://iicbe.org/upload/9812C0215114.pdf>

### **Abstract Publications**

1. Pathirana H.H.R., Aruppala, A.L.Y.H., H.M.J.C, Pitawala., Andrew, M.S., **Abeyrathne, E.D.N.S.** Evaluation of physiochemical changes in raw chicken eggs stored in different temperature. 26<sup>th</sup> World Poultry Congress. Paris, France. 08-12, August, 2021. (Accepted)
2. Eregama, G.R.S.R., Aruppala, A.L.Y.H., H.M.J.C, Pitawala., Andrew, M.S., **Abeyrathne, E.D.N.S.** Evaluation of physiochemical changes in boiled eggs stored in different temperature. 26<sup>th</sup> World Poultry Congress. Paris, France. 08-12, August, 2021. (Accepted)
3. Alahakoon, D.A.J.N., Alakolanga, A.G.A.W., **Abeyrathne, E.D.N.S.** Evaluation of Polycyclic Aromatic Hydrocarbons (PAHs) in Smoked Catla (*Catla catla*) Harvested



- from Selected Reservoir with Different Combustion Materials and Storage Conditions. 5<sup>th</sup> International Research Conference Uva Wellassa University (IRCUWU2021), Badulla Sri Lanka, July 01-02, 2021. (Accepted)
4. Meepegamage, L.S. **Abeyrathne, E.D.N.S.** Functional properties of hydrolysates of bioactive peptides extracted from water soluble crude proteins from *Hilsa kelee*. 5<sup>th</sup> International Research Conference Uva Wellassa University (IRCUWU2021), Badulla Sri Lanka, July 01-02, 2021. (Accepted)
  5. Rathnayaka, H.M.N.C., Pitawala, H.M.J.C., **Abeyrathne, E.D.N.S.** Effect of Boomi (*Litsea glutinosa*) wax on internal and sensory attributes of chicken eggs stored under room temperature. 5<sup>th</sup> International Research Conference Uva Wellassa University (IRCUWU2021), Badulla Sri Lanka, July 01-02, 2021. (Accepted)
  6. Tissera, W.M.J.C.M., Rathnayake. R.M.S.I., **Abeyrathne, E.D.N.S.** Extraction and Purification of Chitin and Chitosan from *Portunus pelagicus* Crab Shell Waste 5<sup>th</sup> International Research Conference Uva Wellassa University (IRCUWU2021), Badulla Sri Lanka, July 01-02, 2021. (Accepted)
  7. Wickramasinghe, H.S., Ahn, D.U., Abeyrathne, E.D.N.S. Production of Bioactive Peptides from Ovotransferrin using Two Enzyme Combinations and Determining the Functional Properties of Its Hydrolysates. 5<sup>th</sup> International Research Conference Uva Wellassa University (IRCUWU2021), Badulla Sri Lanka, July 01-02, 2021. (Accepted)
  8. Mahindarathana S.B.M.H.M., Alakolanga A.G.A.W. and **Abeyrathne E.D.N.S.** Qualitative Comparison of the fatty acid profile extracted from *Catla catla* and *Oreochromis niloticus* skin from two selected reservoirs in Sri Lanka. 7<sup>th</sup> International conference on Fisheries and Aquaculture (ICFA 2020). Pp 05
  9. Wijesinghe S.K.D., **Abeyrathne E.D.N.S.**, Vidanarachchi J.K. and Rajapakse R.P.N.P. Bioactive properties of fish proteins hydrolysates from Amazon Sailfin Catfish (*Pterygoplichthys pardalis*) from Victoria reservoir Sri Lanka. 32<sup>nd</sup> Annual Congress of the PGIA. 19-20 November, 2020. Pp 20
  10. Maldeniya M.U.S., Egodaunya K.P.U.T and **Abeyrathne E.D.N.S.** functional Properties of Crude Extracts from *Ulva lactuca*. 2<sup>nd</sup> Research Symposium of the Ocean University of Sri Lanka. November 19, 2020. Pp16
  11. Mahindarathana S.B.M.H.M., Alakolanga A.G.A.W. and **Abeyrathne E.D.N.S.** Qualitative Comparison of the fatty acid profile extracted from skins of *Thunnus albacares* and *Lepidocybium flavobrunnm*. 2<sup>nd</sup> Research Symposium of the Ocean University of Sri Lanka. November 19, 2020. Pp18
  12. Anjali N. V. P., **Abeyrathne E. D. N. S.**, Mudannayake D. C. and Adhikari A. A. D. I. Egg based mousse ice cream incorporated with Lavulu [*Pouteria campechiana* (Kunth) Baehni] flour as a colorant and an antioxidant. International Research Conference Uva Wellassa University (IRCUWU2020), Badulla Sri Lanka, July 29-30, 2020. Pp 264
  13. De Silva S.M.H.H., **Abeyrathne E.D.N.S.**, Weerasinghe W.M.P.B., Mahipala M.B.P.K. and Ranaweera K.K.T.N. Rumen Protected Fat Preparation using By-products Generated in Coconut Processing Industry. International Research Conference Uva Wellassa University (IRCUWU2020), Badulla Sri Lanka, July 29-30, 2020. Pp 15
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## **Patents**

1. Inventors: Rathnayake, R.M.T.S., Ranasinghe, M.K. and **Abeyrathne, E.D.N.S.**  
Title: A method to form an antimicrobial, biodegradable and edible casing/ film from ovalbumin obtained from poultry eggs  
Ref. Number: LK/P/20595
2. Inventors: **Abeyrathne, E.D.N.S.**, Tharaka, T.H.S. and Aruppala, A.L.Y.H.  
Title: Production of Bread-spread using Catla (*Catla catla*) and mature flower buds of *Rhizophora apiculate*  
Ref. Number: LK/P/19923
3. Inventors: Illangakoon, I.M.I.V. and **Abeyrathne, E.D.N.S.**  
Title: Manufacture of Fish Paste from Tilapia and Kovakka Leaves as a Natural Blood Glucose Reduction Food  
Patent Number: LK/P/1/18759
4. Inventors: Dong Uk Ahn, **Sandun Abeyrathne**, H.Y. Lee.  
Title: Separation of ovotransferrin from chicken egg white using environmental friendly techniques  
Patent number: 10-2012-0143234
5. Inventors: Dong Uk Ahn, **Sandun Abeyrathne**, H.Y. Lee  
Title: Sequential separation of lysozyme and ovalbumin from chicken egg white  
Patent number: 10-2013-0003215

## **Grants awarded**

1. Evaluation of polycyclic aromatic hydrocarbons (PAHs) in smoked Catla (*Catla catla*) and Tilapia (*Oreochromis niloticus*) with different combustion materials under different storage conditions  
**UWU/R/G/ 2020/025**
2. Evaluation of physicochemical changes in smoked Catla (*Catla catla*) with different combustion materials  
**UWU/R/G/ 2019/009**
3. Isolation and Separation of Bioactive peptides from underutilized freshwater fish species *Pterygoplichthys pardalis*  
**UWU/R/G-2018/039**
4. Production of Bioactive peptides from egg white proteins to use as anti-oxidative, anti-microbial and metal chelating agent in processed food industry  
**UWU/R/G/2015/24**
5. Separation of value-added lipid components from fresh water and marine water fish byproducts  
**UWU/R/G-2015/22**
6. Use of Ovomuroid as a protease inhibitor in Surimi production.  
**UWU/R/G-2015/01**
7. Factors determining the egg consumption behavior in local market  
**UWU/R/G-2014-07**
8. Use of value-added components of egg white as antimicrobial and anti-oxidative supplements in formed meat product processing  
**UWU/R/G/- 2014-03**
9. Evaluation of the impact of environmental enrichment on behavior and growth performance of laboratory rabbits  
**UWU/R/G/- 2013/11**