



## CURRICULUM VITAE

<b>A. BUTIR-BUTIR PERIBADI</b> ( <i>Personal Details</i> )			
Nama Penuh ( <i>Full Name</i> )	Foo Hooi Ling		Gelaran ( <i>Title</i> ): Assoc. Prof. Dr.
No. MyKad / No. Pasport ( <i>Mykad No. / Passport No.</i> )	Warganegara ( <i>Citizenship</i> )	Bangsa ( <i>Race</i> )	Jantina ( <i>Gender</i> )
680207-07-5408	Malaysia	Cina	Perempuan
Jawatan ( <i>Designation</i> )		Tarikh Lahir ( <i>Date of Birth</i> )	7 Februari 1968
Professor			

Alamat Semasa ( <i>Current Address</i> )	Jabatan/Fakulti ( <i>Department/Faculty</i> )	E-mel dan URL ( <i>E-mail Address and URL</i> )
Jabatan Teknologi Bioproses Fakulti Bioteknologi dan Sains Biomolekul, 43400 UPM Serdang, selangor  Tel : 603-97697476 H/P:016-3237806	Jabatan Teknologi Bioproses Fakulti Bioteknologi dan Sains Biomolekul, 43400 UPM Serdang, selangor.  Tel : 603-97697476 H/P:016-3237806	E-mail: <a href="mailto:hlfoo@upm.edu.my">hlfoo@upm.edu.my</a>  Or hooilingfoo@gmail.com

<b>B. KELAYAKAN AKADEMIK</b> ( <i>Academic Qualification</i> )			
Nama Sijil / Kelayakan ( <i>Certificate / Qualification obtained</i> )	Nama Sekolah Institusi ( <i>Name of School / Institution</i> )	Tahun ( <i>Year obtained</i> )	Bidang pengkhususan ( <i>Area of Specialization</i> )
BSc (Honours)	Universiti Pertanian Malaysia (Now known as Universiti Putra Malaysia, Malaysia)	1993	Biochemistry and Microbiology
Grad. Diploma	University Malaya, Malaysia	1994	Education
PhD	Wye College (Now known as Imperial College at Wye), University of London, U.K	1998	Plant Biochemistry

<b>C. KEMAHIRAN BAHASA</b> ( <i>Language Proficiency</i> )					
Bahasa / <i>Language</i>	Lemah <i>Poor (1)</i>	Sederhana <i>Moderate (2)</i>	Baik <i>Good (3)</i>	Amat Baik <i>Very good (4)</i>	Cemerlang <i>Excellent (5)</i>
English				√	

Bahasa Melayu				√	
Chinese				√	
Lain-lain (other):					

<b>D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN</b> ( <i>Scientific experience and Specialisation</i> )				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
Department of Biotechnology, Faculty of Food Science & Biotechnology, Universiti Putra Malaysia	Tutor	1995	1998	Molecular Biology
Institute of Biolscience, Universiti Putra Malaysia	Research Fellow	2002	To date	Industrial Biotechnology
Cancer Resource & Education Center, Universiti Putra Malaysia	Research Fellow	2016	To date	Industrial Biotechnology

<b>E. PEKERJAAN (Employment)</b>				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
Universiti Putra Malaysia	Lecturer	Department of Biotechnology, Faculty of Food Science & Biotechnology,	1998	To-date
Universiti Putra Malaysia	Associate Professor	Department of Bioprocess Technology, Faculty of Biotechnology & Biomolecular Sciences	2003	2017
Universiti Putra Malaysia	Professor	Department of Bioprocess Technology, Faculty of Biotechnology & Biomolecular Sciences	2017	To date

<b>F. ANUGERAH DAN HADIAH (Honours and Awards)</b>				
<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
<i>Academic Awards</i>	Kuok Foundation Scholarship	Kuok Foundation	Scholarship for B Sc (Honours) degree at Universiti Pertanian	1990-1993
	Universiti Pertanian Malaysia Scholarship	UPM	PhD scholarship	1995-1998
	Excellent Service	Universiti Putra	Plaque and	2003, 2006, 2010,

	Award	Malaysia	certificate	2014
	Excellent Researcher Award	Universiti Putra Malaysia	Plaque and certificate	2007
<i>Non-Academic Awards</i>	JICA Fellowship	JICA	To learn “Techniques for Cytotoxicity Assay”s, at Okayama University, Japan	2000
	Cochran Fellowship	United States Department of Agriculture Foreign Agriculture Services	To attend “Agriculture Biotechnology Short Course” organised by Michigan State University, USA	2003
<i>Awards of Merit</i>				
International Research Exhibition Awards	<b>Gold medal</b> for the project entitled “The Novel Feed Additives Produced by Beneficial Lactic Acid Bacteria, <i>Lactobacillus plantarum</i> I-UL4, Isolated from Fermented Tapioca ( <i>Manihot esculanta</i> )”	Biotechnology Asia Trade Exhibition & Conference organized by Protemp Exhibition Sdn Bhd with the full support of Ministry of Agriculture and Agro-based Industry, Ministry of Higher Education, Ministry of Domestic Trade and Consumer Affairs and Ministry of Science, Technology and Innovation of Malaysian Government	Medal and Certificate	2005
	<b>Gold medal</b> for the project entitled “Novel broiler feed additive derived from metabolites of <i>Lactobacillus</i> sp isolated from Malaysian foods	PECIPTA, MOHE	Medal and Certificate	2009
	<b>Bronze medal</b> in recognition of		Medal and	2010

	innovative excellence in the category of animal care for the project entitled “Novel natural feed additive for monogastric animals”	Invention and New Product Exhibition (INPEX), Monroeville, Pennsylvania, USA.	Certificate	
National Research Exhibition Awards	<b>Gold medal</b> for the project entitled “The Study of Novel Biopreservative Produced by <i>Lactobacillus plantarum</i> I-ULA Isolated from Fermented <i>Tapioca</i> ( <i>Manihot esculanta</i> )”	EXPO Science and Technology hosted by the Malaysian Ministry of Science, Technology and Environment	Medal and Certificate	2003
	<b>Consolation prize</b> for the project entitled “The Study of Novel Biopreservative Produced by <i>Lactobacillus plantarum</i> I-ULA Isolated from Fermented <i>Tapioca</i> ( <i>Manihot esculanta</i> )”	Innovation Award of Prime Minister, organized by the Malaysian Ministry of Science, Technology and Innovation	Certificate	2006
	<b>Bronze medal</b> for the project entitled “Green Aquaculture Feed Supplement Derived from Probiotic <i>Lactobacillus</i> sp.”	Malaysia Technology Exposition, Ministry of Science, Technology and Innovation	Medal and Certificate	2011
University Research Exhibition Awards	<b>Silver medal</b> for the project entitled “The Study of A Novel Natural Biopreservative, Nisin Bacteriocin Produced by Friendly Lactic Acid Bacteria Isolated from Malaysian Ikan Rebus” <b>Gold medal</b> for the	Invention and Research Exhibition of Universiti Putra Malaysia	Medal and Certificate	2002

	<p>project entitled “The Study of Novel Biopreservative Produced by <i>Lactobacillus plantarum</i> I-ULA Isolated from Fermented <i>Tapioca</i> (<i>Manihot esculanta</i>)”</p> <p><b>Bronze medal</b> for the project entitled “The Novel Feed Additives Produced by Beneficial Lactic Acid Bacteria, <i>Lactobacillus plantarum</i> I-ULA, Isolated from Fermented Tapioca (<i>Manihot esculanta</i>)”</p> <p><b>Gold medal</b> for the project entitled “Novel Probiotic <i>Lactobacillus</i> sp Isolated from Malaysian Fermented Foods as Feed Supplement in Animal Industry”</p> <p><b>Silver medal</b> for the project entitled “The Fermentation Mechanism of Malaysian Fermented Fish Sauce, Budu”</p> <p><b>Silver medal</b> for the project entitled “Exploration of a Recombinant Superoxide Dismutase, a Vital Biological Antioxidant Enzyme”</p> <p><b>Excellent researcher award for Commercialisation Category</b> from Universiti Putra</p>	<p>Invention and Research Exhibition of Universiti Putra Malaysia</p> <p>Invention and Research Exhibition of Universiti Putra Malaysia</p> <p>Invention, Research and Innovation exhibition of Universiti Putra Malaysia</p> <p>Invention, Research and Innovation Exhibition of Universiti Putra Malaysia</p> <p>Invention, Research and Innovation exhibition of Universiti Putra Malaysia</p> <p>Universiti Putra Malaysia</p>	<p>Medal and Certificate</p>	<p>2003</p> <p>2005</p> <p>2006</p> <p>2006</p> <p>2006</p> <p>2006</p>
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Malaysia (2006)				
<b>Gold medal</b> for the project entitled “Development of a recombinant <i>Aeromonas</i> vaccine for aquaculture	Invention, Research and Innovation exhibition of Universiti Putra Malaysia	Medal and Certificate		2007
<b>Silver medal</b> for the project entitled “Bacteriocins I-UL4 from <i>Lactobacillus plantarum</i> reduces incidence of tumor in mice induced with skin cancer	Invention, Research and Innovation exhibition of Universiti Putra Malaysia	Medal and Certificate		2007
<b>Gold medal</b> for the project entitled “Novel broiler feed additive derived from metabolites of <i>Lactobacillus</i> sp isolated from Malaysian foods	Invention, Research and Innovation exhibition organized of Universiti Putra Malaysia	Medal and Certificate		2009
<b>Gold medal</b> for the project entitled “Novel feed supplement for aquaculture animals derived from the metabolites of probiotic strains of <i>Lactobacillus plantarum</i> I-UL4.”	Invention, Research and Innovation exhibition organized of Universiti Putra Malaysia	Medal and Certificate		2010
<b>Excellent certificate for Product Commercialisation</b> from Universiti Putra Malaysia (2010)	Universiti Putra Malaysia	Certificate		2010
<b>Gold medal</b> for the project entitled “Novel nutraceutical metabolites produced by probiotic strains of <i>Lactobacillus plantarum</i> exert selective cytotoxic and antiproliferative effects on human cancer cells”	Invention, Research and Innovation exhibition organized of Universiti Putra Malaysia	Medal and Certificate		2011
<b>Gold medal</b> for the	Invention,	Medal and		2011

	project entitled “Promet: <i>Lactobacillus</i> Metabolite in Egg Producing Layer Chicken”	Research and Innovation exhibition organized of Universiti Putra Malaysia	Certificate	
	<b>Silver medal</b> for the project entitled “Improvement of folate biosynthesis by lactic acid bacteria”	Invention, Research and Innovation exhibition organized of Universiti Putra Malaysia	Medal and Certificate	2011

**G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan)** (*List of publications – author (s), title, journal, volume, page and year published*)

<i>Journal</i>	<p>Selected refereed and cited journals:</p> <ol style="list-style-type: none"> <li>1. Rangasamy, P., Foo, H. L., Mohd Yusof, B. N., Chew, S. Y., Mohd Jamil, A. A., Than, L. T. L. (2023). Probiotic Strain <i>Limosilactobacillus reuteri</i> 29B is Proven Safe and Exhibits Potential Probiotic Traits in a Murine Vaginal Model. <i>Probiotics and Antimicrobial Proteins</i>. <a href="https://doi.org/10.1007/s12602-023-10094-2">https://doi.org/10.1007/s12602-023-10094-2</a>.</li> <li>2. Izuddin, W.I., Loh, T.C., Nayan, N., Akit, H., Noor, A.M. and Foo, H.L. (2023). Blood lipid profiles, fatty acid deposition and expression of hepatic lipid and lipoprotein metabolism genes in laying hens fed palm oils, palm kernel oil, and soybean oil. <i>Front. Vet. Sci.</i> 10:1192841. doi: 10.3389/fvets.2023.119284.</li> <li>3. Izuddin, W.I.; Loh, T.C.; Nayan, N.; Akit, H.; Foo, H.L.; Noor, A.M. (2023). Antioxidant Enzyme System Modulation by Dietary Palm Oils, Palm Kernel Oil and Soybean Oil in Laying Hens. <i>Animals</i>, 13: 2245. <a href="https://doi.org/10.3390/ani13142245">https://doi.org/10.3390/ani13142245</a>.</li> <li>4. Azizi, M.N.; Loh, T.C.; Foo, H.L.; Akit, H.; Izuddin, W.I.; Yohanna, D. (2023). Brown and Green Seaweed Antioxidant Properties and Effects on Blood Plasma Antioxidant Enzyme Activities, Hepatic Antioxidant Genes Expression, Blood Plasma Lipid Profile, and Meat Quality in Broiler Chickens. <i>Animals</i>, 13: 1582. <a href="https://doi.org/10.3390/ani13101582">https://doi.org/10.3390/ani13101582</a>.</li> <li>5. Koyum, K. A., Foo, H. L*, Ramli, N and Loh, T. C. (2023). Biotransformation of gluten-free composite flour mediated by probiotics via solid-state fermentation process conducted under different moisture contents. <i>Front. Nutr.</i> 10:910537. doi: 10.3389/fnut.2023.910537.</li> <li>6. Izuddin, W.I., Loh, T.C., Henny, A., Nayan, N., Md. Noor, A., Foo, H. L. (2022). Influence of Dietary Palm Oils, Palm Kernel Oil and Soybean Oil in Laying Hens on Production Performance, Egg Quality, Serum Biochemicals and Hepatic Expression of Beta-Carotene, Retinol and Alpha-Tocopherol Genes. <i>Animals</i>, 12(22): 3156, <a href="https://doi.org/10.3390/ani12223156">https://doi.org/10.3390/ani12223156</a>.</li> <li>7. Mohd-Hairul, A.R., Ong-Abdullah, J., Song, A.A.L., Foo, H.L., Namasivayam, P. (2022) <i>Vandachostylis ‘Sri-Siam’</i>: an intergeneric hybrid with superior qualities as evidenced by its biochemical fragrance and transcriptome profiles.</li> </ol>
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	J. Plant Biochem. Biotechnol., 31: 965–968, <a href="https://doi.org/10.1007/s13562-022-00783-4">https://doi.org/10.1007/s13562-022-00783-4</a> .
8.	Mohd-Hairul A.R., Ong Abdullah J., Song A.A.L., Foo H.L., Namasivayam P., Rahim R.A. (2022). Volatile constituents and floral transcriptome analyses provide new insights into fragrance biosynthesis of Vanda ‘Tan Chay Yan’. <i>Plant Biosystems</i> , 156(1): 16-23.
9.	Danladi, Y., Loh, T.C., Foo, H.L.*, Akit, H., Md. Tamrin, N.A., and Azizi, M.N. (2022). Effects of Postbiotics and Paraprobiotics as Replacements for Antibiotics on Growth Performance, Carcass Characteristics, Small Intestine Histomorphology, Immune Status and Hepatic Growth Gene Expression in Broiler Chickens. <i>Animals</i> , 12(7):917. doi: 10.3390/ani12070917.
10.	Chang, H.M., Loh, T.C., Foo, H.L. *, Lim, E.T C. (2022). Lactiplantibacillus plantarum Postbiotics: Alternative of Antibiotic Growth Promoter to Ameliorate Gut Health in Broiler Chickens. <i>Front Vet Sci.</i> , 9: 883324, doi:10.3389/fvets.2022.883324.
11.	Danladi, Y., Loh, T.C., Foo, H.L.* Henny, A., Tamrin, N.A.M, Naeem, A.M. (2022). Impact of Feeding Postbiotics and Paraprobiotics Produced From Lactiplantibacillus plantarum on Colon Mucosa Microbiota in Broiler Chickens. <i>Front Vet Sci</i> , 9: 859284, doi:10.3389/fvets.2022.859284.
12.	Humam, A.M., Loh, T.C., Foo, H.L., Izuddin, W I., Zulkifli, I., Samsudin, A.A., & Mustapha, N.M. (2021). Supplementation of postbiotic RI11 improves antioxidant enzyme activity, upregulated gut barrier genes, and reduced cytokine, acute phase protein, and heat shock protein 70. <i>Poult. Sci.</i> , 100 (3): 100908, doi: 10.1016/j.psj.2020.12.011.
13.	Azizi, M.N.; Loh, T.C.; Foo, H.L.; Akit, H.; Izuddin, W.I.; Shazali, N.; Lim, E.T C.; Samsudin, A.A. (2021). Chemical Compositions of Brown and Green Seaweed, and Effects on Nutrient Digestibility in Broiler Chickens. <i>Animals</i> , 11: 2147, <a href="https://doi.org/10.3390/ani11072147">https://doi.org/10.3390/ani11072147</a> .
14.	Khatun J., Loh T.C., Foo H.L., Akit H., Mohamad R., Shazali N. (2021). Effects of vitamin E, an oil blend and L-Arginine on breast meat from broiler chickens. <i>South African Journal of Animal Sciences</i> . 50 (5): 745-757.
15.	Muhamad Zakuan, N., Foo, H.L., Mohamad Alitheen, N.B., Moin, S, Raha, A.R., Mohd Hair, B., Abd Ghafar, S. A. and Saiful Yazan, L. (2021). Proteinaceous Postbiotic Metabolite Produced by Lactobacillus plantarum I-UL4 Exhibits Anti-colorectal cancer and Immunomodulatory Properties in Azoxymethane-induced Rats. <i>Malaysian Journal of Microscopy</i> , 17 (1): 69-88.
16.	Ooi, M.F., Foo, H.L. *, Loh, T.C., Rosfarizan, M. , Raha, A. R. and Arbakariya, A. (2021). A refined medium to enhance the antimicrobial activity of postbiotic produced by Lactiplantibacillus plantarum RS5. <i>Scientific Reports</i> , 11:7617, <a href="https://doi.org/10.1038/s41598-021-87081-6">https://doi.org/10.1038/s41598-021-87081-6</a> .
17.	Azizi, M.N.; Loh, T.C.; Foo, H.L. and Lim, E.T C. (2021). Is Palm Kernel Cake a Suitable Alternative Feed Ingredient for Poultry? <i>Animals</i> , 11: 338, <a href="https://doi.org/10.3390/ ani11020338">https://doi.org/10.3390/ ani11020338</a>
18.	Chang, H.M., Foo, H.L.*, Loh, T.C. *, Lim, E.T C. and Nur Elina, A.M. (2021). Comparative Studies of Inhibitory and Antioxidant Activities, and Organic Acids Compositions of Postbiotics Produced by Probiotic Lactiplantibacillus plantarum Strains Isolated from Malaysian Foods. <i>Front. Vet. Sci.</i> 7:602280.

doi: 10.3389/fvets.2020.602280.

19. Atchareeya Nakkarach, Ulaiwan Withayagiat, Adelene Ai-Lian Song, Nur Elina Abdul Mutalib, Sunee Nitisinprasert and **Hooi Ling Foo** (2020). Anti-cancer and anti-inflammatory effects elicited by short chain fatty acids produced by *Escherichia coli* isolated from healthy human gut microbiota. *Microbial Cell Factories*. (Just accepted)
20. Goh, C. H., Loh, T. C., **Foo, H. L.**, and Nobilya, F. (2020). Fecal Microbial Population, and Growth in Broiler Fed Organic Acids and Palm Fat-Composed Diet. *Tropical Animal Science Journal*, 43(2):150-156, DOI: <https://doi.org/10.5398/tasj.2020.43.2.150>.
21. Nakkarach, A., **Foo, H. L.**, Song, A. A. L., Nitisinprasert, S. and Withayagiat, U. (2020). Promising discovery of beneficial *Escherichia coli* in the human gut. *3 Biotech*, 10:296, <https://doi.org/10.1007/s13205-020-02289-z>.
22. Humam, A. M., Loh, T. C., **Foo, H. L.**, Izuddin, W. I., Awad, E. A., Idrus, Z., Samsudin, A. A. and Mustapha, N. M. (2020). Dietary Supplementation of Postbiotics Mitigates Adverse Impacts of Heat Stress on Antioxidant Enzyme Activity, Total Antioxidant, Lipid Peroxidation, Physiological Stress Indicators, Lipid Profile and Meat Quality in Broilers. *Animals* 2020, 10, 982; doi:10.3390/ani10060982.
23. Mohamad Zabidi, N. A., **Foo, H. L.**, Loh, T. C., Mohamad, R. and Abdul Rahim, Raha. (2020). Enhancement of Versatile Extracellular Cellulolytic and Hemicellulolytic Enzyme Productions by *Lactobacillus plantarum* RI 11 Isolated from Malaysian Food Using Renewable Natural Polymers. *Molecules*, 25: 2607; doi:10.3390/molecules25112607.
24. J. Khatun A, T. C. Loh, **H. L. Foo**, H. Akit, R. Mohamad and N. Shazali (2020). Effects of Vitamin E, an oil blend and L-arginine on breast meat from broiler chickens. *South African Journal of Animal Science*, 50(5).
25. Mohd-Hairul, A. R., Abdullah, J. O., Song, A. A. L., **Foo, H. L.**, Namasivayam, P., & Rahim, R. A. (2020). Volatile constituents and floral transcriptome analyses provide new insights into fragrance biosynthesis of Vanda ‘Tan Chay Yan’. *Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology*, (just-accepted), 1-11.
26. Khatun, J., Loh, T. C., **Foo, H. L.**, Akit, H., & Khan, K. I. (2020). Growth performance, cytokine expression, and immune responses of broiler chickens fed a dietary palm oil and sunflower oil blend supplemented with L-Arginine and varying concentrations of vitamin E. *Frontiers in Veterinary Science*, 7.
27. J. Khatun A, T. C. Loh, H. AkitA, **H. L. Foo**, R. Mohamad and K. Y. Kareem (2020). Dietary supplementation with L-arginine and combinations of different oil sources beneficially regulates body fat deposition, lipogenic gene expression, growth performance and carcass yield in broiler chickens. *Animal Production Science*, <https://doi.org/10.1071/AN19205>.
28. Wan Ibrahim Izuddin, Ali Merzza Humam, Teck Chwen Loh\*, **Hooi Ling Foo\*** and Anjas Asmara Samsudin (2020). Dietary Postbiotic *Lactobacillus plantarum* Improves Serum and Ruminal Antioxidant Activity and Upregulates Hepatic Antioxidant Enzymes and Ruminal Barrier Function in Post-Weaning Lambs. *Antioxidants*, 9: 250; doi:10.3390/antiox9030250.
29. Lim, Y. H., **Foo, H. L.**, Loh, T. C., Mohamad, R. and Abdul Rahim, R (2020). Rapid Evaluation and Optimization of Medium Components Governing

Tryptophan Production by *Pediococcus acidilactici* TP-6 Isolated from Malaysian Food via Statistical Approaches. *Molecules*, 2:779; doi:10.3390/molecules25040779.

30. Nazim Rasul Abdulla, Teck Chwen Loh, **Hooi Ling Foo**, Mohamed Idris Alshelmani and Henny Akit (2019). Influence of Dietary Ratios of n-6: n-3 Fatty Acid on Gene Expression, Fatty Acid Profile in Liver and Breast Muscle Tissues, Serum Lipid Profile, and Immunoglobulin in Broiler Chickens. *J. Appl. Poult. Res.* 28:454–469.
31. Nurhazirah Shazali, Teck Chwen Loh, **Hooi Ling Foo**, Anjas Asmara Samsudin (2019). Gut microflora and intestinal morphology changes of broiler chickens fed reducing dietary protein supplemented with lysine, methionine, and threonine in tropical environment. *R. Bras. Zootec.*, 48: e20170265.
32. Akit, H., Mohd Noor Zainudin, N.N., Abdul Wahid, N.A., Zakaria, S.N., **Foo, H.L.** and Loh, T.C. (2019) Dietary bromelain improves nutrient digestibility, digesta viscosity and intestinal villus height as well as reduces intestinal *E. coli* population of broiler chickens. *Mal. J. Anim. Sci.* 22(1): 1-16.
33. Pagthinathan, M., 1Ghazali, H. M., 1 Yazid, A. M. and 3 **Foo, H. L.** (2019). Extraction, purification and characterisation of a milk-clotting protease from ‘kesinai’ (*Streblus asper* Lour.) leaves. *International Food Research Journal*, 26(3): 913-922.
34. Wan Ibrahim Izuddin, Teck Chwen Loh, **Hooi Ling Foo**, Anjas Asmara Samsudin and Ali Merzza Humam, Nurhazirah Shazali (2019). Effects of postbiotic supplementation on growth performance, ruminal fermentation and microbial profile, blood metabolite and GHR, IGF-1 and MCT-1 gene expression in post-weaning lambs. *BMC Veterinary Research*. 15: 315.
35. Fu Haw Lee, Suet Ying Wan, **Hooi Ling Foo**, Teck Chwen Loh, Rosfarizan Mohamad, Raha Abdul Rahim, Zulkifli Idrus (2019). Comparative Study of Extracellular Proteolytic, Cellulolytic and Hemicellulolytic Enzyme Activities and Biotransformation of Palm Kernel Cake Biomass by Lactic Acid Bacteria Isolated from Malaysian Foods. *International Journal of Molecular Sciences*, 20: 4979.
36. Ali Merzza Humam, Teck Chwen Loh, **Hooi Ling Foo**, Anjas Asmara Samsudin, Noordin Mohamed Mustapha, Idrus Zulkifli and Wan Ibrahim Izuddin (2019). Effects of feeding different postbiotics produced by *Lactobacillus plantarum* on growth performance, carcass yield, intestinal morphology, gut microbiota composition, immune status, and growth gene expression in broilers under heat stress. *Animals*. 9: 644.
37. Wan Ibrahim Izuddin, Teck Chwen Loh, **Hooi Ling Foo**, Anjas Asmara Samsudin and Ali Merzza Humam (2019). Postbiotic *L. plantarum* RG14 improves ruminal epithelium growth, immune status and upregulates the intestinal barrier function in post-weaning lambs. *Scientific Reports*. 9(1): 9338.
38. Lim, Y. H., **Foo, H. L.**, Loh, T. C., Mohamad1, R. and Abdullah, N (2019) Optimized medium via statistical approach enhanced threonine production by *Pediococcus pentosaceus* TL-3 isolated from Malaysian food. *Microbial Cell Factories*, 18:125, 1-19. <https://doi.org/10.1186/s12934-019-1173-2>.
39. Chuah, L. O., **Foo, H. L.**, Loh, T. C., Banu Alitheen, N., Yeap, S. K., Abdul Mutalib, N. E. Abdul Rahim, R. and Yusoof, K. (2019). Postbiotic metabolites produced by *Lactobacillus plantarum* strains exert selective cytotoxicity effects on cancer cells. *BMC Complementary and Alternative Medicine*, DOI

: 10.1186/s12906-019-2528-2

40. Cui Jin Toe, **Hooi Ling Foo**, Teck Chwen Loh, Rosfarizan Mohamad, Raha Abdul Rahim and Zulkifli Idrus (2019). Extracellular Proteolytic Activity and Amino Acid Production by Lactic Acid Bacteria Isolated from Malaysian Foods. *International Journal of Molecular Sciences*. 20(1777), 1-22. DOI: 10.3390/ijms20071777.
41. Lim, Y. H., **Foo, H. L.**, Loh, T. C., Mohamad1, R. and Abdullah, N (2019) Comparative studies of versatile extracellular proteolytic activities of lactic acid bacteria and their potential for extracellular amino acid productions as feed supplements. *Journal of Animal Science and Biotechnology*. 10:15, 1-13. <https://doi.org/10.1186/s40104-019-0323-z>.
42. Zakuan, N., Foo, H. L. Saiful, Y. L (2019) Anti-microbial, anti-cancer and immunomodulatory properties of proteinaceous postbiotic metabolite produced by *Lactobacillus plantarum* I-UL4. *Mal J Med Health Sci*. 15(SP2): 81-84..
43. Jannatara Khatun, Teck Chwen Loh, Henny Akit, **Hooi Ling Foo** and Rosfarizan Mohamad (2018) Influence of different sources of oil on performance, meat quality, gut morphology, ileal digestibility and serum lipid profile in broilers. *Journal Applied Animal Research*. 46: 479-485.
44. Kareem, K.Y., Abdulla, N.R., **Hooi Ling, F.**, Zamri, A.N.M., Shazali, N., Teck Chwen, L., Alshelmani, M.I., 2018. Effect of feeding larvae meal in the diets on growth performance, nutrient digestibility and meat quality in broiler chicken. *Indian Journal of Animal Sciences*. 88, 1180–1185.
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<p><i>Other publications</i></p>	<p><b>Granted Patents</b></p> <p><b>As Project Leader</b></p> <p>1. Title of Invention : A Process for Producing Bacteriocin from <i>Lactococcus lactis</i>.  Application No. : PI20042295  Filing date : 15 June 2004  Filing country : Malaysia  Granted date : 14 November 2012  Patent No. : MY147164A</p> <p>2. Title of Invention : A Process for Producing Bacteriocin from <i>Lactobacillus plantarum</i>.  Application No. : PI20042296  Filing date : 15 June 2004  Filing country : Malaysia  Granted date : 14 November 2012  Patent No. : MY147166A</p> <p>3. Title of Invention : Tumor Cytotoxic Agent And Methods Thereof  Application No. : 2010365001.0  Filing date : 10 August 2012  Filing country : Australia  Granted date : 27 March 2014  Patent No. : 2010365001</p> <p>4. Title of Invention : Metabolites in Animal Feed  Application No. : 201283058.0</p>

	<p>Filing date : 10 August 2009  Filing country : Australia  Granted date : 10 December 2015  Patent No. : 2010283058</p> <p>Title of Invention : Tumor Cytotoxic Agent And Methods Thereof  Application No. : 2013-540910  Filing date : 29 November 2010  Filing country : Japan  Granted date : 8 April 2016  Patent No. : 5913353</p> <p>Title of Invention : Tumor Cytotoxic Agent And Methods Thereof  Application No. : 201206418-4  Filing date : 29 August 2010  Filing country : Singapore  Granted date : 20 April 2016  Patent No. : 183544</p> <p>Title of Invention : Tumor Cytotoxic Agent And Methods Thereof  Application No. : US13/579.936  Filing date : 19 August 2012  Filing country : USA  Granted date : 1 November 2016  Patent No. : US 9,481,721</p> <p>Title of Invention : Tumor Cytotoxic Agent And Methods Thereof  Application No. : PI 20097029  Filing date : 24 November 2009  Filing country : Malaysia  Granted date : 14 October 2016  Patent No. : MY-158393-A</p>
5.	<p>Title of Invention : Metabolites in Animal Feed  Application No. : PI20097013  Filing date : 10 August 2009  Filing country : Malaysia  Granted date : 30 November 2016  Patent No. : MY-158907-A</p>
10.	<p>Title of Invention : Tumor Cytotoxic Agent And Methods Thereof  Application No. : 10-2013-7004057  Filing date : 18 February 2013  Filing country : Korea  Granted date : 9 June 2017  Patent No. : 10-1747815</p>
	<p><b>As Project Member</b></p>
1.	<p>Title of Invention : A Method for Producing Fermented Products as Animal Feed Additive.  Application No. : PI20042148  Filing date : 3 June 2004  Filing country : Malaysia  Granted date : 14 November 2012  Patent No. : MY147163A</p>
2.	<p>Title of Invention : Monogastric Animal Feed  Application No. : Divisional: 13/897138</p>

	<p>Filing date : 17 May 2013  Filing country : USA (Divisional)  Granted date : 1 Mac 2016  Patent No. : US 9,271,518 B2</p>
1.	<p>Title of Invention : Monogastric Animal Feed  Application No. : PI201310231703  Filing date : 11 June 2013  Filing country : China (Divisional)  Granted date : 10 August 2016  Patent No. : CN20130231703.0</p>
	<p><b>Filed Patents</b></p> <p><b>As Project Leader</b></p>
1.	<p>Title of Invention : Probiotic composition for nutraceutical product  Application No. : PI20097032  Filing date : 1 December 2009  Filing country : Malaysia</p>
2.	<p>Title of Invention : Metabolites in Animal Feed  Application No. : PCT/MY/2010/000095  Filing date : 9 June 2010  Filing country : International-Patent Commission Treaty</p>
3.	<p>Title of Invention : Tumor Cytotoxic Agent And Methods Thereof  Application No. : PCT/MY/2010/000307  Filing date : 29 November 2010  Filing country : International-Patent Commission Treaty</p>
4.	<p>Title of Invention : Probiotic composition for nutraceutical product  Application No. : PCT/MY/2010/000306  Filing date : 29 November 2010  Filing country : International-Patent Commission Treaty</p>
5.	<p>Title of Invention : Metabolites in Animal Feed  Application No. : 10728913.4  Filing date : 26 July 2012  Filing country : European Patent Office</p>
6.	<p>Title of Invention : Metabolites in Animal Feed  Application No. : 1-2012-02393  Filing date : 13 August 2012  Filing country : Vietnam</p>
7.	<p>Title of Invention : Tumor Cytotoxic Agent And Methods Thereof  Application No. : BR11201220216244  Filing date : 28 August 2012  Filing country : Brazil</p>
8.	<p>Title of Invention : Tumor Cytotoxic Agent And Methods Thereof  Application No. : 108060122.0  Filing date : 18 October 2012  Filing country : European Patent Office</p>
9.	<p>Title of Invention : Tumor Cytotoxic Agent And Methods Thereof  Application No. : 6771DELNP/2012  Filing date : 1 August 2012  Filing country : India</p>

	<p><b>As Project Member</b></p> <ol style="list-style-type: none"> <li>1. Title of Invention : A system for controlled docking of anchor fusions to the cell wall surface of microorganisms. Application No. : PI20044832 Filing date : 22 November 2004 Filing country : Malaysia</li> <li>2. Title of Invention : Monogastric Animal Feed Application No. : PCT/MY2009/000050 Filing date : 9 April 2009 Filing country : International-Patent Commission Treaty</li> <li>3. Title of Invention : Monogastric Animal Feed Application No. : PI2010005787 Filing date : 6 December 2010 Filing country : Malaysia</li> <li>4. Title of Invention : Monogastric Animal Feed Application No. : 09788115.5 Filing date : 21 January 2011 Filing country : European Patent Office</li> <li>5. Title of Invention : Monogastric Animal Feed Application No. : 624/DELNP/2011 Filing date : 27 January 2011 Filing country : India</li> <li>6. Title of Invention : Monogastric Animal Feed Application No. : 2009344224 Filing date : 9 February 2011 Filing country : Australia</li> <li>7. Title of Invention : Monogastric Animal Feed Application No. : 1-2011-00452 Filing date : 21 February 2011 Filing country : Vietnam</li> <li>8. Title of Invention : Monogastric Animal Feed Application No. : PI0918470-8 Filing date : 31 March 2011 Filing country : Brazil</li> </ol> <p><b>Granted Trademark</b></p> <ol style="list-style-type: none"> <li>1. Title of Invention : Aquamate Application No. : 2014065766 Kelas 1 Filing date : 20 October 2014 Filing country : Malaysia Granted date : 5 April 2016 Trademark No. : 2014065766</li> </ol>
<i>Computer software</i>	

### H. PROJEK PENYELIDIKAN TERDAHULU (Past Research Project)

Project No.	Project Title	Role	Year	Source of fund	Status
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01-02-04-0491	Manipulation of the Glucosinolate-Myrosinase-Epithiospecifier Protein System as an Environmentally Safe Crop Defense Strategy in of Brassica Crops	Project leader	2001-2004	IRPA	Completed
05-13-02-0061F	Screening and Characterization of Lipase Produced by Beneficial Lactic Acid Bacteria Isolated From Malaysian Fermented Foods	Project leader	2002-2003	Fundamental Research Grant of Malaysia Ministry of Education	Completed
01-02-04-0584-EA001	Utilisation of Lactic Acid Bacteria Isolated from Local Foods	Project leader	2003-2006	IRPA	Completed
05-13-03-088J	Fundamental Study of Extracellular Lipase Produced by Beneficial Lactic Acid Bacteria Isolated From Malaysian Fermented Foods	Project leader	2004-2005	Fundamental Research Fund of Malaysia Ministry of Education	Completed
01-01-07-004FR	Elucidation of probiotic mechanism mediated by metabolites produced by locally isolated Lactic acid bacteria	Project leader	2006-2008	Fundamental Research Fund of Malaysia Ministry of Higher Education	Completed
01-02-04-SF0002	Media Formulation and Optimisation of Culture Conditions for Bacteriocin Production by Locally Isolated Lactic Acid Bacteria	Project Leader	2007-2009	eScience Fund	Completed
-	Up-scaling and Commercialization of Bacteriocin Produced by Lactic Acid Bacteria Isolated From Malaysian Fermented Food	Project Leader	2008-2011	Special CRDF, MTDC	Completed

05-01-04-SF1065	Development of Antibiotic Replacement from Locally Isolated Lactic Acid Bacteria for Aquatic Animals	Project Leader	2009-2011	MOA eScience fund	Completed
04-04-10-763FR	Elucidation of cytotoxicity effects and mechanism mediated by metabolites derived from locally isolated Lactic acid bacteria	Project leader	2010-2012	Fundamental Research Fund of Malaysia Ministry of Higher Education	Completed
02-01-04-SF1276	Exploration of Metabolites Produced by Locally Isolated <i>Lactobacillus</i> sp. as "Green" Aquaculture Feed Supplement	Project leader	1 Jul 2012-30 Jun 2014	MOSTI eScience	Completed
UPM/700-1/3/LRGS	Elucidation of fundamental mechanism and development of novel strategies for enhancing the nutritive value and quality of palm kernel cake as poultry feed	Sub-Project Leader	1 Jul 2012-30 Jun 2017	Top-Down LRGS MOHE (Food Security)	Completed
UPM/700-1/3/LRGS	Elucidation of the effects of amino acids and proteinaceous bioactive compounds produced from agro-wastes as poultry feed	Sub-Project Leader	1 Jul 2012-30 Jun 2017	Top-Down LRGS MOHE (Food Security)	Completed
Market Validation (9003241) Research Grant of UPM	Postbiotic	Project Leader	16 May 2016 – 15 May 2019	InnoHub Research Grant of UPM	On-going
FRGS/1/2016/STG05/UPM/02/13	Elucidation of cytotoxicity characteristics of proteinaceous bioactive compounds produced by <i>Lactobacillus plantarum</i> on breast cancer cells	Project Leader	2016-2018	Fundamental Research Fund of Malaysia Ministry of Higher Education	Completed

UPM/700-2/1/GPB/2018/9598900	Biotransformation of palm kernel cake via solid state fermentation mediated by selected locally isolated lactic acid bacteria as feed ingredient for broiler chicken	Project Leader	2018-2020	Geran Putra Berimpak (GPB)	On-going
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