

# CURRICULUM VITAE



## A. BUTIR-BUTIR PERIBADI *(Personal Details)*

Nama Penuh <i>(Full Name)</i>	Nor Ainy binti Mahyudin		Gelaran <i>(Title)</i> : Dr.
No. MyKad / No. Pasport <i>(Mykad No. / Passport No.)</i> 660302-06-5656	Warganegara <i>(Citizenship)</i> Malaysia	Bangsa <i>(Race)</i> Malay	Jantina <i>(Gender)</i>  Female
Jawatan <i>(Designation)</i>	Lecturer	Tarikh Lahir <i>(Date of Birth)</i>	2 March 1966

Alamat Semasa <i>(Current Address)</i>	Jabatan/Fakulti <i>(Department/Faculty)</i>	E-mel dan URL <i>(E-mail Address and URL)</i>
25K, Persada Damai, Alam Milinea 1, ENSTEK, 71900 Negeri Sembilan  Tel: 06-7912100	Department of Food Service Management, Faculty of Food Science & Technology, Universiti Putra Malaysia (UPM), 43400 Serdang, Selangor  Tel: 03-89471962/1 Fax: 03-89423552	E-mail: norainy@upm.edu.my  URL:  H/P: 016-3418808

## B. KELAYAKAN AKADEMIK *(Academic Qualification)*

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>
PhD	University of Canterbury, New Zealand	2008	Microbiology
MSc	Universiti Malaya, Kuala Lumpur	1995	Phytochemistry
BSc	Universiti Sains Malaysia, Pulau Pinang	1990	Biology

## C. KEMAHIRAN BAHASA *(Language Proficiency)*

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 <i>(other)</i> :					

<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>

<b>E. PEKERJAAN</b> <i>(Employment)</i>				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
Director-General of Fisheries Malaysia	Fisheries Officer	Marine Parks Section, Dept. of Fisheries, Kuala Lumpur	21 Jan 1995	30 Apr 2001
Secretary-General, Southeast Asian Fisheries Development Centre	Regional Working Group Officer (Attachment)	Southeast Asian Fisheries Development Centre, Bangkok	1 May 2001	30 Apr 2002
Director-General of Fisheries Malaysia	Fisheries Officer	Fish Quality Control Unit, Dept. of Fisheries, Kuala Lumpur	1 May 2002	30 Nov 2007
Director-General of Fisheries Malaysia	Fisheries Officer	Fisheries Biosecurity Division, Dept. of Fisheries, Putrajaya	1 Dec 2007	22 Dec 2009

<b>F. ANUGERAH DAN HADIAH</b> <i>(Honours and Awards)</i>				
<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
<i>Academic Awards</i>	Scholarship (Hadiah Latihan Persekutuan)	Public Service Department Malaysia	National	2003
<i>Non-Academic Awards</i>	Excellent Service Award	Universiti Putra Malaysia	Universiti	2012
	Excellent Service Award	Dept. of Fisheries Malaysia	National	2008
	Attachment Training - Regional Fisheries Policy Working Group	Southeast Asian Fisheries Development Centre, Bangkok	Regional	May 2001-Apr 2002
	Excellent Service Award	Dept. of Fisheries Malaysia	National	2000
<i>Awards of Merit</i>				

**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)**

Journal	
	<ol style="list-style-type: none"> <li>1. Noor Ifatul, H. M. D., Lee, H. Y., Nazamid, S., Wan Norhana, M. N. and <b>Mahyudin, N.A.</b> In vitro antibacterial activity of marine-derived fungi isolated from Pulau Redang and Pulau Payar Marine Parks, Malaysia against selected food-borne pathogens. <i>Int. Food Research J.</i> 2016 (Dec). 23(6): 2681-2688</li> <li>2. Thung, T. Y., Mahyudin, N.A., Basri, D.F., Wan Mohamed Radzi, C.W.J., Nakaguchi, Y., Nishibuchi, M., Radu, S. Prevalence and antibiotic resistance of Salmonella Enteritidis and Salmonella Typhimurium in raw chicken meat at retail markets in Malaysia. <i>Poultry Science.</i> 2016 (1 August). 95 (8), 1888-1893</li> <li>3. Lai, C.Y., Fatimah, A.B., Mahyudin, N.A., Saari, N., Zaman, M.Z. Physico-chemical and microbiological qualities of locally produced raw goat milk. <i>Int. Food Research J.</i> 2016. 23(2), 739-750</li> <li>4. N. H. Mohd Rozalli, N. L. Chin, Y. A. Yusof and N. Mahyudin. Quality changes of stabilizer-free natural peanut butter during storage. <i>J Food Sci Technol.</i> DOI 10.1007/s13197-015-2006-x</li> <li>5. Kuan, C.H., Goh, S.G., Loo, Y.Y., Chang, W.S., Lye, Y.L., Puspanadan, S., Shahril, N., Tang, J.Y.H., Mahyudin, N.A., Nishibuchi, M., Nakaguchi, Y., Son, R. Risk assessment of acquiring listeriosis from consumption of chicken offal in Selangor, Malaysia. <i>Int. Food Research J.</i> 2015. 22 (4), 1711-1718</li> <li>6. Abdul Aris, M. H., Lee, H. Y., Hussain, N., Ghazali, H., Nordin, W. N. and <b>Mahyudin, N. A.*</b> Effect of Vietnamese coriander (<i>Persicaria odorata</i>), turmeric (<i>Curcuma longa</i>) and asam gelugor (<i>Garcinia atroviridis</i>) leaf on the microbiological quality of gulai tempoyak paste. <i>Int. Food Research J.</i> 2015. 22(4), 1657-1661</li> <li>7. Naser Tajabadi, Afshin Ebrahimpour, Ali Baradaran, Raha Abdul Rahim, Nor Ainy Mahyudin, Mohd Yazid Abdul Manap, Fatimah Abu Bakar and Nazamid Saari. Optimization of <math>\lambda</math>-Aminobutyric Acid Production by <i>Lactobacillus plantarum</i> Taj-Apis362 from Honeybees. <i>Molecules.</i> 2015. 20, 6654-6669</li> <li>8. Mahyudin, N.A., Nadia, H., Wan Zunairah, W.I. Evaluation of hygiene practices on microbiological quality of tuna sandwiches. Theory and Practice in Hospitality and Tourism Research – Proceedings of the 2<sup>nd</sup> International Hospitality and Tourism Conference 2014. 2015, 411-414</li> <li>9. Mahyudin, N.A., Zainon, Z., Ungku-Zainal-Abidin, U.F. Assessment of food handlers; knowledge, attitude and practices on food hygiene in Serdang, Selangor. Theory and Practice in Hospitality and Tourism Research – Proceedings of the 2<sup>nd</sup> International Hospitality and Tourism Conference 2014. 2015, 445-449</li> <li>10. Hajeb, Parvaneh, Selamat, Jinap, Afsah-Hejri, Leili, Mahyudin, Nor Ainy, Shakibazadeh, Shahram, Sarker, Mohd Zaidul Islam. Effect of Supercritical Fluid Extraction on the Reduction of Toxic Elements in Fish Oil Compared with Other Extraction Methods. <i>J. Food Protection.</i> 2015. 1 (January 2015), 172-179</li> <li>11. Velu, S., Abu Bakar, F., Mahyudin, N.A., Saari, N. and Zaman, M.Z. In vitro antimicrobial activity of musk lime, key lime and lemon extracts against food related pathogenic and spoilage bacteria. <i>Int. Food Research J.</i> 2014. 21(1), 379-386</li> <li>12. Hajeb, P., Sloth, J.J., Shakibazadeh, S., Mahyudin, N.A.*. Afsah-Hejri, L. Toxic elements in food: Occurrence, binding, and reduction approaches. <i>Comprehensive Reviews in Food Science and Food Safety.</i> 2014. 13(4), 457-472</li> <li>13. Lee, H.Y., Chai, L.C., Mahyudin, N.A., Nishibuchi, M. and Son, R. Transfer of <i>Listeria monocytogenes</i> between abiotic surfaces under different weights. <i>Food Science and Biotechnology.</i> 2014. 23(4), 1237-1241</li> <li>14. Yibadatihan, S., Jinap, S., Mahyudin, N.A. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment. 2014. 31 (12), 2 December 2014, 2071-2079</li> <li>15. Elexson, N., Yaya, R., Nor, A. M., Kantilal, H. K., Ubong, A., Yoshitsugu, N., Nishibuchi, M. and Son, R. Biofilm assessment of <i>Vibrio parahaemolyticus</i> from seafood using Random Amplified Polymorphism DNA-PCR. <i>Int. Food Research J.</i> 2014. 21(1):59-65</li> <li>16. Ismail, R., Lee, H.Y., <b>Mahyudin, N.A.*</b>, Abu Bakar, F. Linearity study on detection and quantification limits for the determination of avermectins using linear regression. <i>Journal of Food and Drug Analysis.</i> 2014. 22(4) 1 December 2014, 407-412</li> <li>17. Tan Siew Lian, Lee Hai Yen, <b>Nor Ainy Mahyudin*</b>. Antimicrobial resistance of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> isolated from food handler's hands. <i>Food Control.</i> 2014. 44, 203-207</li> </ol>

18. N. Elexson, L. Afsah-Hejri, Y. Rukayadi, P. Soopna, H.Y. Lee, T.C. Tuan Zainazor, M. Nor Ainy, Y. Nakaguchi, N. Mitsuaki, R. Son. Effect of detergents as antibacterial agents on biofilm of antibiotics-resistant *Vibrio parahaemolyticus* isolates. *Food Control*. 2014. 35, 378-385
19. S.L. Tan, H.Y. Lee, F. Abu Bakar, M.S. Abdul Karim, **N.A. Mahyudin\***. Association of Levels of Hygienic Practices and Microbiological Quality on Food Handlers Hands in Hulu Langat District, Malaysia. *Journal of Pure and Applied Microbiology*. Dec. 2013. 7(4), 2701-2705
20. Tan Siew Lian, Lee Hai Yen, Fatimah Abu Bakar, Muhammad Shahrin Abdul Karim, **Nor Ainy Mahyudin\***. Hand Hygiene Knowledge, Attitudes and Practices Among Food Handlers at Primary Schools in Hulu Langat District, Selangor, Malaysia. *Food Control*. 2013. 34(2), 428-435
21. Tan, S.L., Lee, H.Y., Abu Bakar, F., Abdul Karim, M.S., Rukayadi, Y., **Mahyudin, N.A.\*** Microbiological quality on food handlers' hands at primary schools in Hulu Langat District, Malaysia. *Int. Food Research J.* 2013, 20 (5), 2973-2977
22. Hidayah, N., Abu Bakar, F., Mahyudin, N.A., Faridah, S., Nur-Azura, M.S. and Zaman, M.Z. Detection of malachite green and leuco-malachite green in fishery industry. *Int. Food Research J.* 2013. 20(4), 1511 – 1519
23. Rafidah I., Ganthimathi, S., Fatimah Abu Bakar, **Nor Ainy Mahyudin\***. Effectiveness of different cleanup sorbents for the determination of avermectins in fish by liquid chromatography tandem mass spectrometry. *Analytical Methods*. 2013. 5: 4172-4178
24. C. H. Kuan, S. G. Goh, Y. Y. Loo, W. S. Chang, Y. L. Lye, S. Puspandan, J. H. Y. Tang, Y. Nakaguchi, M. Nishibuchi, N. A. Mahyudin, S. Radu. Prevalence And Quantification Of *Listeria Monocytogenes* In Chicken Offal At the Retail Level In Malaysia, *Poultry Science*. 2013. 92:1664-1669
25. Tan, S.L., Cheng, P.L., Soon, H.K., Ghazali H. and **Mahyudin, N.A.\*** A Qualitative Study on Personal Hygiene Knowledge and Practices among Food Handlers at Selected Primary Schools in Klang Valley Area, Selangor, Malaysia. *Int. Food Research J.* 2013. 20(1),71 – 76
26. Kuan, C.H., Wong, W.C., Pui, C.F., Mahyudin, N.A., Tang, J.Y.H., Nishibuchi, M., Radu, S. Prevalence and quantification of *Listeria monocytogenes* in beef offal at retail level in Selangor, Malaysia. *Brazilian Journal of Microbiology*. Oct-Dec. 2013. 44 (4):1169-1172
27. Velu, S., Abu Bakar, F., Mahyudin, N.A., Saari, N. and Zaman, M.Z. Effect of modified atmosphere packaging on microbial flora changes in fishery. *Food products*. *Int Research J.* 2013. 20(1), 17 – 26
28. N. Elexson, R. Son, Y. Rukayadi, T.C. Tuan Zainazor, M. Nor Ainy and Y. Nakaguchi. Biosafety of *Vibrio Parahaemolyticus* Biofilm From Seafood Using Herbs and Spices. *Journal of Life Medicine*. 2013. 1(3), 71-82
29. Parvaneh Hajeb, Ho Chin Mei, Wan Norhana Noordin and **Nor Ainy Mahyudin\***. Make the deadly yellow puffer fish a safe food to eat, *J. Food, Agriculture & Environment*. 2012. Vol.10 (3&4): 72-77
30. Parvaneh Hajeb, Jinap Selamat, Ahmad Ismail and Nor Ainy Mahyudin. Mercury Pollution in Malaysia. *Reviews of Environmental Contamination and Toxicology*. 2012. 220:45-66
31. **Nor Ainy Mahyudin\***, John W. Blunt, Anthony Cole and Murray H. Munro. The Isolation of a New S-Methyl Benzothioate Compound From a Marine-Derived *Streptomyces* sp. *Journal of Biomedicine and Biotechnology* 2012. Article 894708: 1 – 4
32. Lee Hai Yen, Wan Nadirah Wan Chik, Fatimah Abu Bakar, Nazamid Saari, **Nor Ainy Mahyudin\***. Sanitation Practices among Food Handlers in a Military Food Service Institution, Malaysia. *Food and Nutrition Sciences*, 2012, 3, 1561-1566
33. **Nor Ainy Mahyudin\***, John W. Blunt , Anthony L. J. Cole, Murray H. G. Munro. Screening Malaysian Marine Fungal Extracts For Cytotoxic Activity, *Malaysian Fisheries Journal*. 2012. 11:23-31
34. Wan Norhana, M.N., Masazurah, A. R., **Nor Ainy, M.\***, and Ismail, I. Reverse Transcriptase PCR detection of Hepatitis A virus (HAV) in cultured and wild shellfish from the Peninsular of Malaysia. *International Food Research Journal*. 2011. 18 (1), 411-416
35. Chong, C. Y., Abu Bakar, F., Russly, A. R., Jamilah, B. and Mahyudin, N. A. The effect of food processing on biogenic amines formation. *International Food Research Journal*. 2011. 18 (3), 867-876
36. Wan Norhana, M.N., **Nor Ainy, M.\***, Othman, M., Faazaz, A.L., Ismail, I. and Yusri, A. Establishment of a shellfish model farm: a case study in Sg. Jarum Mas, Perak, Malaysia. *International Food Research Journal*. 2011. 18 (1), 79-94
37. Gerhard Lang, **Nor Ainy Mahyudin\***, Maya I. Mitova, Lin Sun, Sonia van der Sar, John W. Blunt, Anthony L. J. Cole, Gill Ellis, Hartmut Laatsch and Murray H. G. Munro. Evolving Trends in the Dereplication of Natural Product Extracts: New Methodology for Rapid, Small-Scale Investigation of Natural Product Extracts. *Journal of Natural Products*. 2008. 71 (9), 1595 – 1599

	<p>38. <b>Nor Ainy Mahyudin*</b>, Anthony L. J. Cole, Murray H. G. Munro, John W. Blunt, Cummings, N., Gerhard Lang, Maya I. Mitova. Marine invertebrate-derived fungi and their bioactive compounds. <i>Malaysian Fisheries Journal</i>. Jun 2006. Volume 5 (1). 10 – 22</p> <p>39. Wan Norhana Noordin and <b>Nor Ainy Mahyudin*</b>. Bacteriological Quality of Some Molluscan Shellfish from Growing Waters of Peninsular Malaysia. <i>Malaysian Fisheries Journal</i>. Jun 2004. Volume 3 (1). 27 – 38</p>
<i>Books/Monographs</i>	Mohd. Taupek Mohd. Nasir and <b>Nor Ainy Mahyudin</b> . <i>Marine Parks of Malaysia</i> . 2001. 1 <sup>st</sup> Edition. Kuala Lumpur.
<i>Chapter in book</i>	
<i>Proceedings</i>	<ol style="list-style-type: none"> <li>1. <b>Mahyudin, N.A.</b>, Nadia, H., Wan Zunairah, W.I. Evaluation of hygiene practices on microbiological quality of tuna sandwiches. <i>Theory and Practice in Hospitality and Tourism Research – Proceedings of the 2<sup>nd</sup> International Hospitality and Tourism Conference 2014</i>. 2015, 411-414</li> <li>2. <b>Mahyudin, N.A.</b>, Zainon, Z., Ungku-Zainal-Abidin, U.F. Assessment of food handlers; knowledge, attitude and practices on food hygiene in Serdang, Selangor. <i>Theory and Practice in Hospitality and Tourism Research – Proceedings of the 2<sup>nd</sup> International Hospitality and Tourism Conference 2014</i>. 2015, 445-449</li> <li>3. Nor Ainy Mahyudin, John W. Blunt, Anthony L. J. Cole, Murray H. G. Munro. Effect of Salinity on Growth and Cytotoxicity of Extracts from a Marine-Derived <i>Penicillium</i> sp. (LY1L5). <i>International Conference on Science, Technology and Social Science (ICSTSS 2012)</i>, Kuantan, Pahang, Malaysia, 20 - 22 Nov. 2012.</li> <li>4. Hanis Nadia Yahya, Wan Norhana Noordin and Nor Ainy Mahyudin, The Effect of Different Hand Hygiene Practices and Storage Temperatures on Microbiological Quality of Tuna Sandwich. <i>11th International Annual Symposium on Sustainability of Science and Management (UMTAS 2012)</i>, Terengganu, Malaysia, 9 - 11 Jul. 2012.</li> <li>5. <b>Nor Ainy Mahyudin</b>, John W. Blunt, Anthony L. J. Cole and Murray H. G. Munro. The Effect of Two Different Growth Media on the Cytotoxicity of Actinomycetes and Fungi Associated with New Zealand Marine Invertebrates. <i>IV International Conference on Environmental, Industrial and Applied Microbiology (Biomicroworld) 2011</i>, Torremolinos, Spain, 14 – 16 September 2011.</li> <li>6. <b>Mahyudin, N.A.</b>, Tan, S. L. and Cheng, P. L. (2011). Hygiene Practices of Food Handlers at Selected School Canteens in Petaling Utama District. <i>10<sup>th</sup> International Annual Symposium (UMTAS 2011)</i>, 11 – 13 July 2011, Terengganu, Malaysia.</li> <li>7. <b>Nor Ainy Mahyudin</b>, Gerhard Lang, Maya I. Mitova, Lin Sun, Gill Ellis, John W. Blunt, Anthony L.J. Cole and Murray H. G. Munro (2010). Isolation of a New <i>S</i>-methyl 2,4-dihydroxy-6-isopropyl-3,5-dimethylbenzothioate from a Marine-Derived <i>Streptomyces</i> sp. <i>Proceedings of the 11<sup>th</sup> EURASIA Conference on Chemical Sciences</i>, The Dead Sea, Jordan, 6 – 10 October 2010.</li> <li>8. John Blunt, Sunita Chamyuang, Tony Cole, Sarah Hickford, Gerhard Lang, <b>Nor Ainy Mahyudin</b>, Maya Mitova, Murray Munro, Sonia van der Sar, Lin Sun, Mohd Termezi Yusof (2007). Simplifying Complexity: The HPLC-Bioactivity-NMR Approach to the Dereplication of Natural Product Extracts. <i>Proceedings of the Xth International Marine and Freshwater Mycology Symposium (IMFMS)</i>, Pulau Pinang, Malaysia, 2 – 6 December 2007.</li> <li>9. Sun, L.J., <b>Mahyudin, N.A.</b>, Chamyuang, S., Blunt, J., Cole, T., Lang, G., Mitova, M., van der Sar, S. and Munro M. (2007) Less is More: Dereplication and Discovery Using CapNMR Techniques. <i>12th International Symposium on Marine Natural Products (MaNaProXII)</i>, Queenstown, New Zealand, 4 - 9 Feb 2007.</li> <li>10. Nor Ainy Mahyudin, Anthony Cole, Murray Munro, John Blunt, Nic Cummings, Gerhard Lang and Maya Mitova (2007). Marine Invertebrate-Derived Fungi and Their Bioactive Compounds. <i>Proceedings of the 21st Annual Seminar of the Malaysian Natural Products Society</i>, Putrajaya, Malaysia, 2007. 35 – 47.</li> <li>11. <b>Nor Ainy Mahyudin</b>, Anthony Cole, Murray Munro, John Blunt, Nicholas Cummings, Gerhard Lang and Maya Mitova. Marine-Derived Fungi: Effect of Salt on Growth and Production of Cytotoxic Metabolites (2006). <i>Proceedings of the ICOB-5 &amp; ISCNP-25 IUPAC International Conference on Biodiversity and Natural Products</i>, Kyoto, Japan, 23-28 July 2006.</li> <li>12. Blunt, J., Cole, T., Ellis, G., Kuegler, P., Laatsch, H., Lang, G., Mitova, M., <b>Mahyudin, N.A.</b>, Munro, M., Phipps, R., van der Sara, S. and Sun, J.L. (2006). Downsizing Discovery: Bioactive Natural Product Dereplication and Discovery using Diminutive Samples. <i>NZIC Conference 2006 "Back to the Basics: From Small Molecules to Materials and Surfaces"</i>, 2-6 Dec 2006. <i>Proceedings of the NZIC</i>. Rotorua, New Zealand: Volume I, 39.</li> <li>13. <b>Mahyudin, Nor Ainy</b> (2002). Sanitary and Phytosanitary Measures. <i>Proceedings of the ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food Security in the New Millennium "Fish for the People"</i>. Bangkok, Thailand, Volume I, 65.</li> </ol>

<i>Other publications</i>	<p>Malaysian Standard/Standard Malaysia</p> <p>a) Malaysian Certification Scheme for HACCP (Surveillance Audit), Ministry of Health.</p> <p>b) Malaysian Certification Scheme for HACCP (Compliance Audit), Ministry of Health.</p> <p>c) Malaysian Standard for General Principles of Food Hygiene MS 1514:2001, SIRIM.</p> <p>d) Malaysian Standard for Food Safety According to HACCP System MS 1480:1999, SIRIM. Kertas Teknikal/Polisi</p> <p>a) Kajian Keberkesanan Program Susu Sekolah 1 Malaysia (PS1M), Febuari 2013, Bahagian Pengurusan Sekolah Harian, Kementerian Pelajaran Malaysia.</p>
<i>Computer software</i>	

<b>H. PROJEK PENYELIDIKAN TERDAHULU (Past Research Project)</b>					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
<i>I-ECO/20(UPM-14)</i>	Enhancing Food Safety Management System of Frozen Malaysian Traditional Foods for Fatihah Frozen Foods Sdn. Bhd.	Project Leader	Apr 2014 - Sep 2016	KPM (KTP grant)	On-going
<i>FRGS/1/2012/SG05/UPM/02/15524299</i>	Induction of Secondary Metabolites Biosynthesis from Marine Fungal Isolates As Potential Inhibitors of <i>L. monocytogenes</i> Biofilm Formation	Project Leader	May 2013 - Apr 2015	FRGS, MOHE	Extended until Oct 2015
<i>GP-IPS/2013/9396300</i>	Shelf-Life and Acceptability of Gulai Tempoyak Paste Added with Selected Traditional Leaves	Project Leader	Nov 2013 - Oct 2015	GP-IPS	On-going
<i>02-02-12-1728RU</i>	Establishing the Performance of Microbiological Test System for the Detection of Antibiotic Residues in Poultry	Project Leader	Sep 2012 - Aug 2014	RUGS (Research University Grant Scheme) Initiative 3	Completed
<i>02-02-11-1362 RU</i>	Hygiene & Sanitation of Food Service Operation in Selected Primary Schools in Hulu Langat District	Project Leader	Aug 2011 - Jul 2012	RUGS (Research University Grant Scheme) Initiative 6	Completed
<i>02-03-10-0959 RU</i>	Sanitation Assessment of Food Service Operation in Educational Institution	Project Leader	Jun 2010 - May 2012	RUGS (Research University Grant Scheme) Initiative 5	Completed