

## **CURRICULUM VITAE FOR FARINAZLEEN MOHAMAD GHAZALI**

**Full name:** FARINAZLEEN MOHAMAD GHAZALI

**Department:** Department of Food Science

**Faculty:** Faculty of Food Science and Technology

**Fields of expertise:** Microbiology, Food Microbiology,  
Environmental Microbiology

**Staff identification number:** A02866

**Identity card number:** 710331-03-5408

**Date of birth:** 31 March 1971 (40 years)

**Contact numbers:** 03 8946 8388 (office)  
012 219 8912 (handphone)

**Commencement of service at UPM:** 1 June 2005 - Lecturer

**Confirmation of position at UPM:** 1 June 2006

**Appointment of current position at UPM:** 1 May 2008 – Senior Lecturer

**Salary grade:** DS52 P2T6

**Salary:** RM6133.80

**Date of annual salary revision:** 1 April

**Education background:** Ph.D. (Universiti Putra Malaysia), 2004  
M.Sc. (University of Canberra, Australia), 2000  
B.Sc. Hon. (University of Tasmania, Australia), 1995  
  
B.Sc. Microbiology (LaTrobe University, Australia)

**ACADEMIC ACTIVITIES:****Teaching:**

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Semester	Academic year	Course	Credit	# of students	Lectures per week	Lab per week
1	2005/2006	FST 3201	2+1	30	2 hrs	3 hrs
2	2005/2006	FST 3201	2+1	33	2 hrs	6 hrs
1	2006/2007	FST 3202	2+1	60	2 hrs	6 hrs
2	2006/2007	FST 3201 K1	2+1	64	2 hrs	3 hrs
2	2006/2007	FST 3201 K2	2+1	56	2 hrs	3 hrs
2	2006/2007	FST 4816	0+4	80	Course co-ordinator	
1	2007/2008	FST 3202 K1	2+1	64	2 hrs	3 hrs
1	2007/2008	FST 3202 K2	2+1	65	2 hrs	6 hrs
2	2007/2008	FST 3201 K2	2+1	71	2 hrs	3 hrs
2	2007/2008	FST 3201 K1	2+1	43	2 hrs	3 hrs
1	2008/2009	FST 3202 K1	2+1	65	2 hrs	-
1	2008/2009	FST 3202 K2	2+1	70	2 hrs	-
1	2008/2009	FSM 3201	2+1	62	2 hrs	6 hrs
2	2008/2009	FST 3201 K1	2+1	45	2 hrs	3 hrs
1	2009/2010	FSM 3201 K1 & K2	2+1	61	4 hrs	6 hrs
2	2009/2010	FSM 3201	2 +1	75	2 hrs	3 hrs
1	2010/2011	FST 4823	3 + 0	75	3 hrs	-
2	2010/2011	FST 4823	3 + 0	25	3 hrs	-

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FST 3201 = Fundamental Food Microbiology  
FST 3202 = Food Microbiology  
FST 4816 = Final year research project  
FSM 3201 = Microbiology for Food Services  
FST 4823 = Food Hygiene and Sanitation

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## **LANGUAGE PROFICIENCY**

Bahasa Malaysia – Excellent, Sijil Peperiksaan Malaysia (SPM) 1988 – A1

English – Excellent, Sijil Peperiksaan Malaysia (SPM) 1988 – A1,

- Currently using English as a teaching medium for all courses at the faculty

## **ADMINISTRATIVE POSTS**

College Principal of Kolej Pendeta Za'ba, Universiti Putra Malaysia – 1 Jan 2011 – 31 Dec 2012

College Principal of Kolej Tun Perak, Universiti Putra Malaysia - 11 May 2009 – 31 Dec 2010

Chairperson of the “Jawatankuasa Latihan Staff”, 2005 – 2006

Head of the Microbiology Teaching Laboratory, 2005 – present

Head of the Food Safety and Quality Laboratory II, 2006 - present

Member of the “Jawatankuasa Penilaian Latihan Praktik, Projek Ilmiah dan Seminar”, 2006

Member of the “Jawatankuasa Pelupusan Sisa Pelarut dan Kimia”, 2006-2007

Member of the Working committee for the Microbial Risk Assessment Workshop, UPM, 2007.

Chair of the Working committee for the Microbial Risk Assessment Workshop, UPM, 2008.

Chair of the Working committee for the Microbial Risk Assessment Workshop, UPM, 2009.

Member of the “Jawatankuasa Jaminan Kualiti”, 2007-2009

Member of the “Jawatankuasa Audit Dalaman”, 2007-2009

## RESEARCH ACTIVITIES:

### As main/head researcher:

<b>Title of project</b>	<b>Source of fund</b>	<b>Commencing year</b>	<b>Amount (RM)</b>	<b>Status</b>
Campylobacter in retail poultry	PLB UPM	2005	10 000	Completed
Isolation, quantification and characterization of methicillin-resistant <i>Staphylococcus aureus</i> from major food animals	RUGS	2007	70 000	Completed
Etiological study of <i>Campylobacter</i> sp. in poultry	FRGS	2007	30 000	Completed
Isolation and identification of <i>Campylobacter</i> sp. from retail poultry and vegetables	Sciencefund	2007	213 000	Completed

### As co-researcher

<b>Title of project</b>	<b>Source of fund</b>	<b>Commencing year</b>	<b>Amount (RM)</b>	<b>Status</b>
Predictive microbiology: Modelling growth of <i>Salmonella typhi</i> as a function of water activity, pH and temperature in rojak, satay sauce and santan	Sciencefund	2006	157 994	Completed
Development of Methods for the Detection and Quantification of Mycotoxin using Molecular and Chromatographic Techniques	RUGS	2007		Ongoing
Development of commercially stable yellow wet noodles using modified atmosphere and combination technologies	Sciencefund	2007	178 995	Completed
Method development for the molecular diagnostic of Hepatitis A virus in shellfish	Sciencefund	2007	76 000	Completed

**STUDENT SUPERVISION  
UNDERGRADUATE SUPERVISION**

<b>2006</b>	<b>Program*</b>	<b>Title</b>	<b>Status</b>
Siti Sarah Mamat	BSTM	Spoilage of rice	Completed
Chan Kok Loon	BSTM	Prevalence and antibiotic resistance of Salmonella in retail chicken	Completed
Wan Nor Madidah Wan Mohd	BSTM	Prevalence of <i>Vibrio parahaemolyticus</i> in squid	Completed
Lim Bee Ling		Consumption pattern of fruits in Klang Valle	Completed
Hazrina Hamed	BSTM	Prevalence of <i>Vibrio parahaemolyticus</i> in cockles	Completed
Mohd Nurul Haryadie Mazuki	BSTM	<i>Bacillus</i> in cereals	Completed
<b>2007</b>	<b>Program*</b>	<b>Title</b>	<b>Status</b>
Siti Aishah Abu Bakar	BSTM	Plasmid profiles and antibiotics susceptibility of <i>B cereus</i>	Completed
Lim Chai Yian	BSTM	Antibiotic resistance of <i>B cereus</i> and inhibitory activities of spices	Completed
Soo Pei Sun	BSTM	Prevalence of <i>B cereus</i> in the ingredients of cereal products	Completed
Fadzillah Mohd Kahar	BSTM	The prevalence of <i>Campylobacter</i> in vegetable farms	Completed
<b>2008</b>	<b>Program*</b>	<b>Title</b>	<b>Status</b>
Eu Hui Wei	BS(PMK)	Factors influencing the adoption of vegetarian diets and the consumption of vegetarian food products among the Serdang community	Completed
Lee Chin Win	BS(PMK)	Consumers' willingness to purchase Omega-3 eggs: Attitude and perception	Completed
<b>2009</b>	<b>Program*</b>	<b>Title</b>	<b>Status</b>
Amir Syazwan Mohd Nazri	BSTM	Assessment of cut-fruits from hawker stalls for <i>E. coli</i> O157:H7	Completed
Nor Halina Mohd Aripin	BSTM	Alginate as an edible surface coating on storage quality of fresh-cut mango	Completed
Aina Amanina Mohd Fa-ik	BSTM	Prevalence and characterization of <i>Campylobacter</i> spp. In chicken pieces at slaughterhouse	Completed
Siti Sharul Nazifah	BSTM	MRSA in RTE food	Completed

<b>2010</b>	<b>Program*</b>	<b>Title</b>	<b>Status</b>
Chong Yee Pau	BSTM	Consumer trends in Malaysia. A study using food-related lifestyle attributes	Completed
Siti Hasliza Md Harith	BSTM	Assessment of microbial safety of various foods in school canteens	Completed
Lee Mei Leng	BSTM	Composition of bioactive nutrients in rice by-products (temukut)	Completed
Ahmad Marwan Mahadi	BSTM	Market studies of liquid chicken fat for cooking purposes	Completed
Khairunnisa Rosli	BSTM	Storage quality of red pittaya puree processed using combination technologies	Completed
Siti Maizatulaniza Baharudin	BS(PMK)	Compliance of foodstall operators for the Malaysian Food Law and Act	Completed
<b>2011</b>	<b>Program*</b>	<b>Title</b>	<b>Status</b>
Nor Haafiz Idris	BSTM	Consumer perception and awareness of Pandan conconut water in Selangor	Completed
Safira Apandi	BSTM	Phytochemical analysis of Matag and Pandan varieties of coconut and effect of lime towards the antioxidant properties	Completed
Loh Wei Wei	BSTM	Pressure study on transfer rate of <i>Listeria monocytogenes</i> across plastic surfaces	Completed
Nor Azila Kamarulzaman	BSTM	Effect of lime on quality of coconut water during storage	Completed
Hooi Mei Yee	BS(PMK)	Assessment of knowledge and awareness on critical control points in restaurants	Ongoing
Sahar Hagh Sefat	BS(PMK)	Elements affecting the quality of food and services toward customer satisfaction at Iranian restaurants in Malaysia	Ongoing
Cheng Siew Peng	BS(PMK)	Comparison of food safety management systems between franchise and company-owned restaurants	Ongoing

\* BSTM = Bachelor of Food Science and Technology

BS(PMK) = Bachelor of Science (Food Studies)

## POSTGRADUATE SUPERVISION

<b>PhD:</b>	<b>Research title</b>	<b>Year</b>	<b>Status</b>
Chai Lay Ching	Isolation and quantification of <i>Campylobacter jejuni</i> in vegetables	2007 - 2009	Completed
*John Tang Yew Huat	The study of factors affecting the formation of VBNC in <i>Campylobacter</i> sp.	2008 - 2010	Completed
Tunung Robin	Predictive microbiology: Modelling growth of <i>Salmonella typhi</i>	2009 - 2011	Completed
Mohd Rafein Zakaria	Polyhydroxyalkanoate production from palm oil mill effluent by <i>Comamonas</i> sp.	2009 - 2011	Completed
Jeya Letchumi Ponniah	Risk assessment of <i>Listeria monocytogenes</i>	2008 - 2011	Completed
*Wael Mousa	Development of a multiplex RT-PCR for detection and quantification of potential mycotoxin-producing fungi	2008 - present	Ongoing
Leili Afsah Hejri	Detection of aflatoxigenic fungi by PCR in peanuts	2008 - present	Ongoing
Noorlis Ahmad	<i>Vibrio parahaemolyticus</i> and <i>V. cholera</i> in retail freshwater fish	2009 - present	Ongoing
Lee Hai Yen	<i>Listeria monocytogenes</i> risk assessment in cheeses and dairy products	2009 - present	Ongoing
Tuan Zainazor Tuan Chilek	Hepatitis A in food	2009-present	Ongoing
<b>Masters:</b>	<b>Research title</b>	<b>Year</b>	<b>Status</b>
Wong Woan Chwen	Biosafety of <i>Listeria Monocytogenes</i> from frozen burger patties in Malaysia	2009-2011	Completed
*Lee Hai Yen	The Prevalence of <i>Bacillus cereus</i> in retail cereals	2006 - 2008	Completed
*Usha Menon Raghavan	Prevalence of <i>Campylobacter</i> sp. in fresh and chilled broiler chicken	2006 - 2009	Completed
Yong Han Tek	RT-PCR Sybr Green for Hepatitis A virus in shellfish	2007 - 2008	Completed
Tunung Robin	Surveillance of <i>Salmonella</i> in Street Foods	2006 - 2008	Completed
Margaret Selina Paie	<i>E. coli</i> O157:H7 in local and imported beef	2008 - 2009	Completed
Anissa Suraya	Development of commercially stable yellow wet noodles using modified atmosphere and	2008 - present	Completed

	combination technologies		
*Mohamad Zarrul Nizam Zaaba	Isolation, quantification and characterization of methicillin-resistant <i>Staphylococcus aureus</i> from major food animals	2008 - present	Ongoing
Hanisah Mustaffa	Antimicrobial effects of edible surface coating on papaya	2010 – present	Ongoing
Jasbeer Kaur	Status of GMOs in animal feed in Malaysia	2008 - 2011	Completed
Nurul Kartini Abu Bakar	Microbial conversion of oil palm empty fruit bunch to fermentable sugars for bioethanol production	2009 - 2011	Completed
Teza Alfindo Rasyid	Development of herbal yellow wet noodle using Malaysian herbal extracts	2009 - present	Ongoing
Nurmahani Mohd Maidin	Antimicrobial activity/agent from white and red pittaya	2008 - present	Ongoing
Afriani Sandra	<i>Shewanella putrefaciens</i> and microbial fuel cell	2008 - present	Ongoing
Jeshveen Singh	Quantification and characterization of <i>E. coli</i> O157:H7 in drink samples	2009 – present	Ongoing
Ubong Anyi	Prevalence of <i>V. cholera</i> in fruit juices and flavoured drinks	2009 – present	Ongoing
Elexson Nillian	Simultaneous detection of <i>Salmonella typhi</i> and <i>Salmonella typhimurium</i> in salad vegetables by multiplex PCR	2009 – present	Ongoing

\*indicates Main Supervisor



## PUBLICATIONS

Year	Authors	Title	Journal
2011	Mousa, Wael; Ghazali, Farinazleen; Jinap, Selamat; Ghazali, Hasanah; Son, Radu	Modeling the effect of water activity and temperature on growth rate and aflatoxins production by two isolates of <i>Aspergillus flavus</i> on paddy	Journal of Applied Microbiology 111:1262-1274
2011	Chai, FP, Woan, CW, Chai, LC, Nillian, E, Mohamad Ghazali, F, Cheah, YK, , Nakaguchi, Y, Nishibuchi, M, Son, R	Simultaneous detection of <i>Salmonella</i> spp., <i>Salmonella</i> Typhi an 1 d <i>Salmonella</i> Typhimurium in sliced fruits using multiplex PCR	Food Control 22:337-342
2011	Pui, C. F., Wong, W. C., Chai, L. C., Pui, CF, Wong, WC, Chai, LC, Lee, HY, Tang, JYH, Noorlis, A, Farinazleen, MG, Cheah, YK, Son, R.	Biofilm formation by <i>Salmonella</i> Typhi and <i>Salmonella</i> Typhimurium on plastic cutting board and its transfer to dragon fruit	International Food Research Journal 18: 31-38 (2011)
2011	Tunung, R., Ghazali, F.M., Noranizan, M.A., Hareesh, K.K., Lesley, M.B., Nakaguchi, Y., Nishibuchi, M, Son, R	Rapid detection and enumeration of pathogenic <i>Vibrio parahaemolyticus</i> in raw vegetables from retail outlets	International Food Research Journal 18: 67-78 (2011)
2011	Teza Alfindo Rosyid, Roselina Karim, Noranizan Mohd Adzahan and Farinazleen Mohd Ghazali	Antibacterial activity of several Malaysian leaves extracts on the spoilage bacteria of yellow alkaline noodles	African Journal of Microbiology Research. 5(8): 898-904
2011	Pui, CF, Wong, WC, Chai, LC., Tunung, R, Jeyaletchumi, P, Noor Hidayah, MS, Ubong, A, Farinazleen, M., Cheah, YK, Son, R.	Review Article <i>Salmonella</i> : A foodborne pathogen	International Food Research Journal 18: 465-473
2011	Noor Hidayah, MS, Tuan Zainazor, C, Pui, CF, Noorlis, A, Noor Eliza, MR, Nazieyah, MD, Ghazali, FM., Cheah, YK, Nakaguchi, Y, Nishibuchi, M, Son, R	Occurrence of Norovirus GI in green and red onion	International Food Research Journal 18: 677-681
2011	Noorlis, A., Ghazali, FM, Cheah, YK, Tuan Zainazor, TC, Ponniah, J, Tunung, R, Tang, JYH, Nishibuchi, M., Nakaguchi, Y, Son, R.	Prevalence and quantification of <i>Vibrio</i> sp. and <i>Vibrio parahaemolyticus</i> in freshwater fish at hypermarket level	International Food Research Journal 18: 689-695
2011	Noorlis, A., Ghazali, FM., Cheah, YK., Tuan Zainazor, C., Wong, WC., Tunung, R., Pui, CF., Nishibuchi, M., Nakaguchi, Y. and Son, R.	Antibiotic resistance and biosafety of <i>Vibrio cholerae</i> and <i>Vibrio parahaemolyticus</i> from freshwater fish at retail level	International Food Research Journal 18(4): 1523-1530
2011	Ubong, A, Tunung, R., Noorlis, A., Elexson, N., Tuan Zainazor, T. C., Ghazali, FM, Nakaguchi, Y, Nishibuchi, M. and Son, R	Prevalence and detection of <i>Vibrio</i> spp. and <i>Vibrio cholerae</i> in fruit juices and flavored drinks	International Food Research Journal 18(
2011	Wong, WC., Pui, F., Chai, LC., Lee, HY., Ghazali, FM., Tang, JYH., Ponniah, J, Tuan Zainazor, TC., Cheah, YK., and Son, R	Biosafety assessment of <i>Listeria monocytogenes</i> in vegetarian burger patties in Malaysia	International Food Research Journal 18: 459-463
2011	J.Y.H. Tang, M. Nishibuchi, Y. Nakaguchi, F.M. Ghazali, A.A. Saleha and R. Son	Transfer of <i>Campylobacter jejuni</i> from raw to cooked chicken via wood and plastic cutting boards	Letters in Applied Microbiology 52:581-588

2011	Chai, FP, Wong, WC, Chai, LC, Lee, HY, Ahmad, N, Chilek, TZ, Tang, JYH, Mohamad Ghazali, F, Cheah, YK, Nakaguchi, Y, Nishibuchi, M, Radu, S	Multiplex PCR for the concurrent detection and quantification of <i>Salmonella</i> spp, <i>Salmonella typhi</i> and <i>Salmonella typhimurium</i>	Tropical Medicine and health, 39:9-15
2011	Lee, HY, Chai, LC, Pui, CF, Tunung, R, Wong, WC, Shuhaimi, M, Cheah, YK, Farinazleen, MG, Nishibuchi, M, Son, R.	Using RAPD-PCR as molecular assessment on the performance of CHROMAgar™ <i>Listeria</i> and PALCAM agar on isolation of <i>Listeria</i> spp. and <i>L. monocytogenes</i> from foods	International Food Research Journal 18: 501-506
2010	Bakar, NKA, Abd-Aziz, S, Hassan, MA, Ghazali, FM	Isolation and selection of appropriate cellulolytic mixed microbial cultures for cellulases production from oil palm empty fruit bunch	Biotechnology, 9:73-78
*2010	Tang, J.Y.H., Mohamad Ghazali, F., Saleha, A.A., Nakaguchi, Y, Nishibuchi, M., Son, R.	MPN-PCR enumeration of <i>Campylobacter</i> spp. in raw chicken meats and by-products	Frontiers of Agriculture in China, 4:501-506
2010	Jasbeer Kaur, Son Radu, Farinazleen Mohamad Ghazali, Cheah Yoke Kqueen	Real-time PCR-based detection and quantification of genetically modified maize in processed feeds commercialised in Malaysia	Food Control 21 (2010) 1536–1544
2010	Jeyaletchumi, P.Tunung, R., Margaret, S. P., Son, R., Ghazali, F. M., Cheah, Y. K, Nishibuchi, M., Nakaguchi, Y. and Malakar, P. K.	Quantification of <i>Listeria monocytogenes</i> in salad vegetables by MPN-PCR	International Food Research Journal 17: 281-286 (2010)
2010	Tang, J.Y.H., Carlson, J., Mohamad Ghazali, F., Saleha, A.A., Nishibuchi, M., Nakaguchi, Y. and Radu, S.	Phenotypic MicroArray (PM) profiles (carbon sources and sensitivity to osmolytes and pH) of <i>Campylobacter jejuni</i> ATCC 33560 in response to temperature	International Food Research Journal 17: 837-844 (2010)
2010	Usha, M.R., Fauziah, M., Tunung, R., Chai, L. C., Cheah, Y. K., Farinazleen, M. G. and Son, R	Occurrence and antibiotic resistance of <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i> in retail broiler chicken	International Food Research Journal 17: 247-255 (2010)
2010	Tuan Zainazor, C1, M. S. Noor Hidayah, L.C Chai, R. Tunung, F. Mohamad Ghazali, R. Son	The Scenario of Norovirus Contamination in Food and Food Handlers	J. Microbiol. Biotechnol. (2010), 20(2), 229–237
2010	Tunung, R., S. P. Margaret, P. Jeyaletchumi, L. C. Chai, T. C. Tuan Zainazor, F. M. Ghazali, Y. Nakaguchi, M. Nishibuchi, and R. Son	Prevalence and Quantification of <i>Vibrio parahaemolyticus</i> in Raw Salad Vegetables at Retail Level	J. Microbiol. Biotechnol. (2010), 20(2), 391–396
*2010	Usha, M. R., Tunung, R., Chai, L. C., Ghazali, F. M., Cheah, Y. K., Nishibuchi, M. and Son, R.	A study on <i>Campylobacter jejuni</i> cross-contamination during chilled broiler preparation	International Food Research Journal 17: 107-115 (2010)
*2010	Tang, J.Y.H., Saleha, A.A., Jalila, A., Mohamad Ghazali, Chilek, TZT, Noorlis, A, Afriani, S, F., Nishibuchi, M., Son, R.	Thermophilic <i>Campylobacter</i> spp. occurrence at farm, slaughterhouse and retail	International Journal of Poultry Science 9(2): 134-138
2010	Jeyaletchumi, P., Tunung, R., Margaret, S. P., Son, R., Farinazleen, M. G., Cheah, Y. K	Detection of <i>Listeria monocytogenes</i> in foods (review paper).	International Food Research Journal 17: 1-11 (2010)
2010	Ponniah, J., Robin, T., Paie, M.S., Radu, S., Ghazali, F.M., Kqueen, C.Y., Nishibuchi, M., Nakaguchi, Y., Malakar, P.K.	<i>Listeria monocytogenes</i> in raw salad vegetables sold at retail level in Malaysia	Food Control 21 (5), pp. 774-778

2010	Zakaria, M.R., Tabatabaei, M., Ghazali, F.M., Abd-Aziz, S., Shirai, Y., Hassan, M.A.	Polyhydroxyalkanoate production from anaerobically treated palm oil mill effluent by new bacterial strain <i>Comamonas</i> sp. EB172	World Journal of Microbiology and Biotechnology, 26:767-774
2009	Chai, L. C., F. M. Ghazali, F. A. Bakar, H. Y. Lee, L. R. A. Suhaimi, S. A. Talib, Y. Nakaguchi, M. Nishibuchi, S. Radu	Occurrence of thermophilic <i>Campylobacter</i> spp. contamination on vegetable farms in Malaysia	Journal of Microbiology and Biotechnology 19 (11), pp. 1415-1420
2009	Jasbeer, K., Son, R., Mohamad Ghazali, F., Cheah, Y.K.	Real-time PCR evaluation of seven DNA extraction methods for the purpose of GMO analysis	International Food Research Journal 16 (3), pp. 329-341
2009	Lee, H.-Y., Chai, L.-C., Tang, S.-Y., Jinap, S., Ghazali, F.M., Nakaguchi, Y., Nishibuchi, M., Son, R.	Application of MPN-PCR in biosafety of <i>Bacillus cereus</i> s.l. for ready-to-eat cereals	Food Control 20 (11), pp. 1068-1071
2009	Tang, J.Y.H., Mohamad Ghazali, F., Saleha, A.A., Nishibuchi, M., Son, R.	Comparison of thermophilic <i>Campylobacter</i> spp. occurrence in two types of retail chicken samples	International Food Research Journal 16 (3), pp. 277-288
2008	Ariffin, H., Hassan, M.A., Shah, U.K.M., Abdullah, N., Ghazali, F.M., Shirai, Y.	Production of bacterial endoglucanase from pretreated oil palm empty fruit bunch by <i>Bacillus pumilus</i> EB3	Journal of Bioscience and Bioengineering 106 (3), pp. 231-236
2008	Chai, L.C., Fatimah, A.B., Ghazali, F.M., Lee, H.Y., Tunung, R., Shamsinar, A.T., Laila, R.A.S., , Son, R.	Biosafety of <i>Campylobacter jejuni</i> from raw vegetables consumed as Ulam with reference to their resistance to antibiotics	International Food Research Journal 15 (2), pp. 125-134
2008	Chai, L.-C., Lee, H.-Y., Ghazali, F.M., Bakar, F.A., Malakar, P.K., Nishibuchi, M., Nakaguchi, Y., Radu, S.	Simulation of cross-contamination and decontamination of <i>Campylobacter jejuni</i> during handling of contaminated raw vegetables in a domestic kitchen	Journal of Food Protection 71 (12), pp. 2448-2452
2008	Jasbeer, K., Ghazali, F.M., Cheah, Y.K., Son, R.	Application of DNA and immunoassay analytical methods for GMO testing in agricultural crops and plant-derived products	ASEAN Food Journal 15 (1), pp. 1-25
2008	Tan, Y.F., Hareesh, K.K., Chai, L.C., Ghazali, F.M., Son, R.	Prevalence of <i>Campylobacter</i> spp. in retailed ready-to-eat sushi	International Food Research Journal 15 (3), pp. 331-336
2007	Chai, L.C., Robin, T., Ragavan, U.M., Gunsalam, J.W., Bakar, F.A., Ghazali, F.M., Radu, S., Kumar, M.P.	Thermophilic <i>Campylobacter</i> spp. in salad vegetables in Malaysia	International Journal of Food Microbiology 117 (1), pp. 106-111
2007	Ong, S.B., Zuraini, M.I., Jurin, W.G., Cheah, Y.K., Tunung, R., Chai, L.C., Haryani, Y., Son, R.	Meat molecular detection: Sensitivity of polymerase chain reaction-restriction fragment length polymorphism in species differentiation of meat from animal origin	ASEAN Food Journal 14 (1), pp. 51-59
2007	Tunung, R., Chai, L.C., Usha, M.R., Lee, H.Y., Fatimah, A.B., Farinazleen, M.G., Son, R.	Characterization of <i>Salmonella enterica</i> isolated from street food and clinical samples in Malaysia	ASEAN Food Journal 14 (3), pp. 161-173
2007	Tunung, R., Chai, L.C., Usha, M.R., Lesley, M.B., Cheah, Y.K., Patrick,	Incidence and characterization of <i>Salmonella</i> species in street food and clinical samples	Journal of Food Safety 27 (4), pp. 345-361

G.B., Farinazleen, M.G., Son, R.

- |      |   |  |   |
|------|---|--|---|
| 2006 | Abd. Rahman, R.N.Z., Ghazali, F.M., Salleh, A.B., Basri, M. | Biodegradation of hydrocarbon contamination by immobilized bacterial cells | Journal of Microbiology 44 (3), pp. 354-359                         |
| 2004 | Ghazali, F.M., Rahman, R.N.Z.A., Salleh, A.B., Basri, M.    | Biodegradation of hydrocarbons in soil by microbial consortium             | International Biodeterioration and Biodegradation 54 (1), pp. 61-67 |
| 2003 | Salleh, A.B., Ghazali, F.M., Abd Rahman, R.N.Z., Basri, M.  | Bioremediation of Petroleum Hydrocarbon Pollution                          | Indian Journal of Biotechnology 2 (3), pp. 411-425                  |
| 1996 | Sanderson, K., Ghazali, F.M., Kirov, S.M.                   | Colonization of streptomycin-treated mice by <i>Aeromonas</i> species      | Journal of Diarrhoeal Diseases Research 14 (1), pp. 27-32           |
| *    | Corresponding author  |  |   |

**Special Publication for the Food Safety and Quality Division, Ministry of Health Malaysia**

Technical report on Prevalence and Enumeration of *Bacillus* spp. and *Bacillus cereus* in Commercial Cereal Products Sold in Malaysia

## PAPERS PRESENTED AT CONFERENCES/SYMPOSIUMS

### 2010

Tunung, R, Ubong, A, Elexson, N., Noorlis, A, Noranizan, MA, Ghazali, FM, Nishibuchi, M, Son, R. (2010) Biosafety of *Vibrio parahaemolyticus* in raw vegetables in Malaysia. International Conference on Food Research, 22-24 Nov, 2010 Putrajaya

Lee HY, , Chai LC, Noorlis A, Pui CF, Zuraini MI, Suhaimi N, Mohd Ghazali F, Son R (2010) Exposure Assessment Of *Listeria monocytogenes* In Cheese From Entry Points To Retail In Malaysia. International Conference on Food Research, 22-24 Nov, 2010 Putrajaya

Wael, M, Mohamad. Ghazali, F, Selamat, J, Mohd. Ghazali, H, and Son, R Modelling the effect of water activity and temperature on the growth rate and lag phase of two aflatoxigenic strains of *Aspergillus flavus* on brown rice . International Conference on Food Safety and Security Under Changing Climate, 6-7 Dec 2010, Penang, Malaysia

### 2009

Lee, HY, Mohamad Ghazali, F (2009) RAPD fingerprinting, plasmid and antibiotic resistance profiling of *Bacillus cereus*. Australian Society for Microbiology Annual Scientific Meeting and Exhibition, 6 – 10 July, 2010. Perth, Australia

Mohamad Ghazali, F (2009) Prevalence and Enumeration of Shiga Toxin-Producing *Escherichia coli* O157:H7 in Retail Beef in Malaysia. 7th International Symposium on Shigatoxin (Verotoxin)- Producing *Escherichia coli* Infections. 10-13 May, 2009, Buenos Aires, Argentina

### 2008

Mohamad Ghazali, F, Robin, T, Paie, MS, Ponniah, J, Ching, LC and Radu, S (2008) *V. parahaemolyticus* in raw salad vegetables– Risk on Consumers. 5th Asian Conference on Food & Nutrition Safety: Science-based Solutions - Sustainable Actions, 3 – 7 Nov 2008, Cebu, Philippines

Mohamad Ghazali, F., Lee, HY, Tang, SY, Radu, S, Selamat J, And Nishibuchi, M.(2008) A stepwise risk assessment for *Bacillus* spp. In retail ready-to-eat cereals in Malaysia. Annual Scientific Meeting and Exhibition of the Australian Society for Microbiology, 6 - 10 July, Melbourne, Australia.

Robin, T., Paie, MS, Ponniah, J, Chai, LC, Mohamad Ghazali, F, Radu, S (2008) Biosafety assessment of *Vibrio parahemolyticus* in raw salad vegetables at retail level. Annual Scientific Meeting and Exhibition of the Australian Society for Microbiology, 6 - 10 July, Melbourne, Australia.

Tang, J, Mohamad Ghazali, F, Zaaba, MZN, Chai, LC, Abd. Aziz, S, Malakar, PK, Radu, S (2008) Thermotolerant *Campylobacter* . spp. in retail chicken meat in Malaysia. Annual Scientific Meeting and Exhibition of the Australian Society for Microbiology, 6 - 10 July, Melbourne, Australia.

### 2007

Mohamad Ghazali, F., Chai, LC, Radu, S (2007) Thermophilic *Campylobacter* spp. in salad vegetables in Malaysia. BioMicroWorld 2007 - Second International Conference on Environmental, Industrial and Applied Microbiology, 28 Nov – 1 Dis, Seville, Spain,

Ghazali, FM, (2007) Microbial risk assessment in practice: Infrastructure and basic requirements. Microbial Risk Assessment Workshop, 23-24 August, Universiti Putra Malaysia.

Ghazali, FM, (2007) Microbial risk assessment: A new tool in food safety. Worksyop Aplikasi Teknik PCR Dalam Mendeteksi Gen DNA, 28-29 August, Universitas Andalas, Indonesia.

Radu, S, Chai, LC, Lee, HY, Loke, CM, Tunung, R, Tang, SY, Yong, HT, Ghazali, FM, Bakar, FA, and Nishibuchi, M (2007) Microbiological risk assessment in practice: Culture-dependent and culture independent approach for data collection. ASEAN Food Conference, 21 –23 August, Kuala Lumpur.

Ghazali, FM,, Radu, S, Bakar, FA, Malakar, PK, Chai, LC, Lee, Tunung, R, Raghavan, UM (2007) *Campylobacter* spp. in raw vegetables and poultry: MPN-PCR method of quantification and identification. ASEAN Food Conference, 21 –23 August, Kuala Lumpur.

Lee, HY, Tang, SY, Chai, LC, Tunung, R, Raghavan, UM, Ghazali, FM,, Radu, S. (2007) Prevalence of *Bacillus* spp. in commercial cereal food products sold in Malaysia using MPN-PCR method. ASEAN Food Conference, 21 –23 August, Kuala Lumpur.

Chai, LC, Robin, T, Ragavan UM, Gunsalam, JW, Abu Bakar, F, Ghazali, FM, Radu, S, Malakar, PK (2007) Prevalence of thermophilic *Campylobacter* spp. in ulam. ASEAN Food Conference, 21 –23 August, Kuala Lumpur.

## **2006**

Ghazali, FM, Gunsalam, J, Son, R, Kasuga, F, Mohamad, AR, Hashim, JK, and Talib, SA. (2006) Quantification of *Vibrio parahaemolyticus* in black tiger prawns – quantification from selected commercial farms – a prelude to a risk assessment study in Malaysia. 2<sup>nd</sup> International Conference on Microbial Risk Assessment: Foodborne Hazards & 12<sup>th</sup> Australian Food Microbiology Conference. February 20-23, 2006, The Sofitel Wentworth Hotel, Sydney, Australia.

Robin, T, Bilung, LM, Cheah, YK, Salleh, NA, Chai, LC, Ragavan UM, Lee, HY, Gunsalam, JW, Yuli, H, Patrick, GB, Adli, MR, Yousr, AN, Murugaiah, C, Ghazali, FM, Malakar, PK and Son Radu. (2006) Isolation and characterization of *Salmonella* sp. from street foods and clinical samples. 1<sup>st</sup> USM-Penang International Postgraduate Convention and 3<sup>rd</sup> Life Science Postgraduate Conference. 24-27 May, 2006. Universiti Sains Malaysia, Penang. pp. 205

Ragavan, UM, Chai, LC, Robin, T, Lee, HY, Bakar, FA, Ghazali, FM, Malakar, PK and Son, R. Prevalence and identification of *Campylobacter* spp. in broiler chicken from wet market. (2006) 1<sup>st</sup> USM-Penang International Postgraduate Convention and 3<sup>rd</sup> Life Science Postgraduate Conference. 24-27 May, 2006. Universiti Sains Malaysia, Penang. pp. 160

Chai, LC, Tunung, R, Usha, M, Lee, HY, Son, R, Fatimah, AB, Farinazleen, MG, Pradeep, KM. Isolation and quantification of *Campylobacter* sp. in raw vegetables using Most Probable Number-Polymerase Chain Reaction (MPN-PCR). (2006) 1<sup>st</sup> USM-Penang International Postgraduate Convention and 3<sup>rd</sup> Life Science Postgraduate Conference. 24-27 May, 2006. Universiti Sains Malaysia, Penang. pp. 156

Lee, HY, Haryani, Y, Noorzaleha, AS, Fatimah, AB, Farinazleen, MG, Tunung, R, Chai, LC, Usha, MR, Son, R. (2006) Molecular characterization of *Klebsiella pneumonia* in street foods sold in Malaysia. 1<sup>st</sup> USM-Penang International Postgraduate Convention and 3<sup>rd</sup> Life Science Postgraduate Conference. 24-27 May, 2006. Universiti Sains Malaysia, Penang. pp. 155.

Tunung, R, Chai, LC, Usha, MR, Lee, HY, Farinazleen, MG, Jurin, WG, Fumiko, K, Abdul Rahim, M, Jamal, KH, Shamsinar, AT, Laila, RAS, Nishibuchi, M, and Son, R. (2006) Quantitative detection of *Vibrio parahaemolyticus* in tiger prawns (*Penaeus monodon*) 1<sup>st</sup> USM-Penang International Postgraduate Convention and 3<sup>rd</sup> Life Science Postgraduate Conference. 24-27 May, 2006. Universiti Sains Malaysia, Penang.

Usha, MR, Chai, LC, Tunung, R, Lee, HY, Bakar, FA, Ghazali, FM, Malakar, PK, and Son, R. (2006) Identification and Prevalence of *Campylobacter* sp. in broiler chickens from wet market and supermarket using a rapid method of MPN-PCR. Exhibition on Development, Research and Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 Aug, 2006. (Silver medal)

Tunung, R, Chai, LC, Usha, MR, Lee, HY, Bakar, FA, Ghazali, FM, Malakar, PK, and Son, R. (2006) Incidence and Characterization of *Salmonella* sp. in Street Foods and Clinical Samples. Exhibition on Development, Research and Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 Aug, 2006. (Silver medal)

Jurin, WG, Son, R, Jinap, S, Bakar, SA, Ghazali, FM, Tunung, R, and Patrick, GB. (2006) Modelling of Risk in Food: Why and How? Exhibition on Development, Research and Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 Aug, 2006. (Bronze medal)

Chai, LC, Tunung, R, Usha, MR, Lee, HY, Bakar, FA, Ghazali, FM, Malakar, PK, and Son, R. (2006) Rapid and Simple Method for Most Probable Number – Polymerase Chain Reaction (MPN-PCR) Quantification of Thermophilic *Campylobacter* sp. in Raw Vegetables (Ulam). Exhibition on Development, Research and Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 Aug, 2006. (Silver medal)

Tunung Robin, Chai Lay Ching, Usha Menon Ragavan, Lee Hai Yen, Farinazleen Mohamad Ghazali, Fatimah Abu Bakar, Pradeep Kumar Malakar, and Son Radu (2006) *Salmonella* sp. in street foods and clinical samples: Prevalence and characterization. 28<sup>th</sup> Symposium of the Malaysian Society for Microbiology, Malacca. 24-27 Nov, 2006.

Chai Lay Ching, Tunung Robin, Usha Menon Ragavan, Lee Hai Yen, Farinazleen Mohamad Ghazali, Fatimah Abu Bakar, Son Radu, and Pradeep Kumar Malakar (2006) Rapid quantification of *Campylobacter jejuni* and *Campylobacter coli* in raw salad vegetables (ulam) by using Most Probable Number-Polymerase Chain Reaction (MPN-PCR) Technique. 28<sup>th</sup> Symposium of the Malaysian Society for Microbiology, Malacca. 24-27 Nov, 2006.

Lee Hai Yen, Chai Lay Ching, Tunung Robin, Usha Menon Ragavan, Farinazleen Mohamad Ghazali, and Son Radu (2006) Enumeration of *Bacillus cereus* from commercial cereal products sold in Malaysia using MPN-PCR (Most Probable Number-Polymerase Chain Reaction) approach. 28<sup>th</sup> Symposium of the Malaysian Society for Microbiology, Malacca. 24-27 Nov, 2006.

Usha Menon Ragavan, Chai Lay Ching, Tunung Robin, Lee Hai Yen, Fatimah Abu Bakar, Farinazleen Mohamad Ghazali, Pradeep Kumar Malakar, and Son Radu (2006) Isolation and prevalence of *Campylobacter jejuni* in broiler chickens from wet market and supermarket. 28<sup>th</sup> Symposium of the Malaysian Society for Microbiology, Malacca. 24-27 Nov, 2006.

Tunung Robin, Chai Lay Ching, Usha Menon Ragavan, Lee Hai Yen, Farinazleen Mohamad Ghazali, Fatimah Abu Bakar, Pradeep Kumar Malakar, and Son Radu (2006) Antibiotic resistance in *Salmonella* sp. isolated from street food and clinical samples. Prevalence and characterization. 28<sup>th</sup> Symposium of the Malaysian Society for Microbiology, Malacca. 24-27 Nov, 2006. (Poster)

Lee Hai Yen, Chai Lay Ching, Tunung Robin, Usha Menon Ragavan, Farinazleen Mohamad Ghazali, and Son Radu (2006) Antibiotic resistance patterns of *Bacillus* spp. isolated from cereal products. 28<sup>th</sup> Symposium of the Malaysian Society for Microbiology, Malacca. 24-27 Nov, 2006. (Poster)

Chai Lay Ching, Tunung Robin, Usha Menon Ragavan, Lee Hai Yen, Farinazleen Mohamad Ghazali, Fatimah Abu Bakar, Son Radu, and Pradeep Kumar Malakar (2006) Antimicrobial resistance of *Campylobacter jejuni* isolated from raw salad vegetables. 28<sup>th</sup> Symposium of the Malaysian Society for Microbiology, Malacca. 24-27 Nov, 2006. (Poster)

Usha Menon Ragavan, Chai Lay Ching, Tunung Robin, Lee Hai Yen, Fatimah Abu Bakar, Farinazleen Mohamad Ghazali, Pradeep Kumar Malakar, and Son Radu (2006) Isolation and prevalence of *Campylobacter jejuni* in broiler chickens from wet market and supermarket. 28<sup>th</sup> Symposium of the Malaysian Society for Microbiology, Malacca. 24-27 Nov, 2006. (Poster)

Hirzun Mohd Yusof, *Farinazleen binti Mohamad Ghazali*, Yoke-Fun Chan, Julia Ibrahim and Roseline Ooi Wai Ling (2005) From Culture Collections to Microbial Diversity Centre. Malaysian Microbiology Symposium, Pulau Pinang, Malaysia

AB Salleh, *F Mohamad Ghazali*, RNZ Rahman, and M Basri (2003) Bioremediation of Petroleum Hydrocarbons by Microbial Consortia. Exhibit at Main Gallery, Research and Development Exposition 2003, Kuala Lumpur.

AB Salleh, *F Mohamad Ghazali*, RNZ Rahman, and M Basri (2003) Bioremediation of Petroleum Hydrocarbon Contamination by Immobilized Bacterial Cells. Conference in conjunction with the IPTA R&D Exposition 2003, Kuala Lumpur.

*F Mohd Ghazali*, AB Salleh, RNZ Rahman, and M Basri (2003) Bioremediation of Petroleum Pollutants by Microbial Consortium. International Invention Innovation Industrial Design & technology Exhibition ITEX 2003, Kuala Lumpur. (Bronze Medal)

*F Mohd Ghazali*, AB Salleh, RNZ Rahman, and M Basri (2002) Bioremediation of Hydrocarbons in Soil by Microbial Consortium. 25<sup>th</sup> Malaysian Microbiology Symposium and the 5<sup>th</sup> National UNESCO Workshop for the Promotion of Microbiology in Malaysia, Kota Bharu, Kelantan. (Second prize for Oral presentation).

*F Mohd Ghazali*, AB Salleh, M Basri, and RNZ Rahman (2002) Bioremediation of Petroleum Hydrocarbon Spills by a Microbial Consortium. Expo S&T 2002, Kuala Lumpur. (Gold Medal).

AB Salleh, *F Mohamad Ghazali*, RNZ Rahman, and M Basri (2002) Bugs at Work: The Oil-Busters. Invention and Research Exhibition, 2002, Universiti Putra Malaysia. (Gold Medal)

AB Salleh, CNA Razak, RNZ Rahman, M Basri, and *F Mohd Ghazali* (2001) Formulation of Bacterial Consortia for Bioremediation. Pameran Hasil Penyelidikan Universiti Putra Malaysia, 2001. (10 best projects award)

*Farinazleen Mohd Ghazali*, Shahrakbah Yacob, and Zaal Anuar Alias (1997) Biological Oil Stimulation Technology to Enhance Oil Recovery. Geological Society of Malaysia Petroleum Geology Conference, Kuala Lumpur, Malaysia. (Oral presentation)

*Mohamad Ghazali*, F., Rees, G., and Sheehy, A. (1996) The Occurrence of Sulfate-reducing Bacteria in Petroleum Reservoirs. The 1996 Annual Scientific Meeting of Australian and New Zealand Society for Microbiologists. Christchurch, New Zealand. (Poster presentation)

Sanderson, K., *Mohamad Ghazali*, F., and Kirov, S (1995) Developing Models for *Aeromonas* Intestinal Colonisation. Fifth International Symposium on *Aeromonas* and *Plesiomonas*, Herriot-Watt University, Edinburgh, Scotland. (Oral presentation by Dr Sanderson)



## CONSULTATION ACTIVITIES:

### As main/head consultant

Title of project	Client	Commencing year	Amount (RM)
Antimicrobial Resistance of <i>Campylobacter</i> spp. Isolated from Vegetables and Poultry	Min. of Health	2008	49 500
Detection and Quantification of <i>E. coli</i> O157:H7 in Retail Ulam Vegetables	Min. of Health	2008	49 500
The occurrence of <i>Bacillus cereus</i> in commercial cereal products	Min. of Health	2006	49 500

### As co-consultant

Title of project	Client	Commencing year	Amount (RM)
Development of a web-based portal on Microbiological Risk Assessment	Food and Agriculture Organization of the United Nations (FAO)	2008	US\$5000
Detection and quantification of <i>Campylobacter</i> in vegetable farms	Min. of Health	2007	49 500
Monitoring of <i>E coli</i> O157:H7 in retail beef	Min. of Health	2007	49 500
Monitoring of <i>L monocytogenes</i> in cheese products	Min. of Health	2007	49 500
Monitoring of <i>Campylobacter</i> in poultry products	Min. of Health	2006	49 500
Prevalence of <i>C jejuni</i> in ulam	Min. of Health	2006	49 500

## PAPERS REVIEWED

2011

Effects Estimation of Dietary Lysine requirement based on broken line and quadratic model analyses with use Performance and Immune Responses Criterion - African Journal of Agricultural Research

Antioxidant Enzyme Activities characterization in Pulmonary Hypertension Syndrome (PHS) in Broilers -- African Journal of Agricultural Research

*Calvatia lilacina* (Gasteromycetes, Basidiomycota) and distribution pattern of known *Calvatia* spp. from Pakistan - African Journal of Agricultural Research

2010

Effects of *Stenochlaena palustris* leaf extract on growth and morphogenesis of foodborne pathogen *Aspergillus niger* – Malaysian Journal of Nutrition

2008

Antimicrobial Drug Resistance of *S. aureus* in Dairy Products – Malaysian Journal of Nutrition

Antibiotic resistance and plasmid profiling of *Vibrio parahaemolyticus* isolated from cockles in Padang, Indonesia – International Food Research Journal

## **AWARDS AND RECOGNITIONS**

### **International level**

2007

Plenary speaker at Microbial risk assessment: A new tool in food safety. Worksyop Aplikasi Teknik PCR Dalam Mendeteksi Gen DNA, 28-29 August, Universitas Andalas, Indonesia.

Swedish International Development Cooperation Agency Fellowship to attend the International Training on Regulatory and Quality Infrastructure Development for Food Safety and Quality, Kuala Lumpur, 22 – 27 April.

2006

Swedish International Development Cooperation Agency Fellowship to attend the International Training on Regulatory and Quality Infrastructure Development for Food Safety and Quality, Sweden, 24 Sept to 20 October.

### **National level**

2008

Live radio interview with Bernama to speak on Food Safety and Poisoning at School Canteens.

2006

Reviewer for Journal of Tropical Agriculture and Food Science for the article “Effects of sodium lactate and/or potassium lactate on the microbiological growth and quality of beef frankfurter” Syafit *et al.*

2003

Exhibit at Main Gallery for “Bioremediation of Petroleum Hydrocarbons by Microbial Consortia” Research and Development Exposition 2003, Kuala Lumpur.

Bronze Medal for “Bioremediation of Petroleum Pollutants by Microbial Consortium”. International Invention Innovation Industrial Design & Technology Exhibition ITEX 2003, Kuala Lumpur.

2002

Second prize for Oral presentation “Bioremediation of Hydrocarbons in Soil by Microbial Consortium”. 25<sup>th</sup> Malaysian Microbiology Symposium and the 5<sup>th</sup> National UNESCO Workshop for the Promotion of Microbiology in Malaysia, Kota Bharu, Kelantan.

Gold medal for “Bioremediation of Petroleum Hydrocarbon Spills by a Microbial Consortium”. Expo S&T 2002, Kuala Lumpur.

Ministry of Science, Technology and Environment Fellowship to attend the Advanced Course on Environmental Biotechnology, Kluyver Laboratory, Delft University of Technology, The Netherlands. 19<sup>th</sup> June –28<sup>th</sup> June.

### **University level**

2009

Bronze medal for “Application of MPN-PCR in biosafety of *B. cereus* in ready-to-eat cereals” Exhibition on Development, Research and Innovation 2006 (PRPI 2006). Universiti Putra Malaysia. 28 July 2009

2008

Surat Pencapaian Prestasi Cemerlang dari Pejabat Pendaftar

2007

Anugerah Perkhidmatan Cemerlang Majlis Gemilang Putra Universiti Putra Malaysia

2006

Sijil Perkhidmatan Cemerlang 2006

Silver medal for “Identification and Prevalence of *Campylobacter* sp. in broiler chickens from wet market and supermarket using a rapid method of MPN-PCR”. Exhibition on Development, Research and Innovation 2006 (PRPI 2006). Universiti Putra Malaysia. 22-24 Aug.

Silver medal for “Incidence and Characterization of *Salmonella* sp. in Street Foods and Clinical Samples”. Exhibition on Development, Research and Innovation 2006 (PRPI 2006). Universiti Putra Malaysia. 22-24 Aug.

Bronze medal for “Modelling of Risk in Food: Why and How?” Exhibition on Development, Research and Innovation 2006 (PRPI 2006). Universiti Putra Malaysia. 22-24 Aug, 2006.

Silver medal for “ Rapid and Simple Method for Most Probable Number – Polymerase Chain Reaction (MPN-PCR) Quantification of Thermophilic *Campylobacter* sp. in Raw Vegetables (Ulam)”. Exhibition on Development, Research and Innovation 2006 (PRPI 2006). Universiti Putra Malaysia. 22-24 Aug.

2002

Gold Medal for Bugs at Work: The Oil-Busters. Invention and Research Exhibition, Universiti Putra Malaysia.

2001

10 best projects award “Formulation of Bacterial Consortia for Bioremediation” Pameran Hasil Penyelidikan Universiti Putra Malaysia, 2001.

## **CO-CURRICULAR ACTIVITIES**

### **University Level**

Trainer for *Biolog Omnilog GEN III Technology Workshop for Microbial Identification and Phenotype Microarray*, 19-20 March, 2009, UPM

Trainer for *Microbial Risk Assessment (MRA) in Practice – Quantitative modeling fro MRA of Campylobacter jejuni in Raw Vegetables*, 12-13 Nov, 2008, UPM

Advisor for Food Science and Technology Student Society at the Faculty of Food Science and Technology, Universiti Putra Malaysia

### **National Level**

Life-member of the Malaysian Society for Microbiology

Chairperson of the organizing committee for the 7<sup>th</sup> Malaysian Institute for Food Technologists Food Science Seminar, Universiti Putra Malaysia, 2010

UPM Liaison Officer for Malaysian Institute for Food Technologists 6<sup>th</sup> Food Science Seminar, Universiti Malaysia Sabah, 2008

Malaysian Member of the Ad Hoc Codex Intergovernmental Task Force on Antimicrobial Resistance, 2007-present.

Member of the Expert Working Committee on Microbiology, Food Safety and Quality Division, Ministry of Health Malaysia – Amendments of *Twelfth Schedule (Regulation 26A) Malaysian Food Act, Permitted Microbial Cultures in Food*, 2007-present.

Member of the Technical Committee on the Food Safety System – Drafting and preparation of the *Malaysian Standard* on Food safety systems, SIRIM, 2007-present.

UPM representative/Liaison Officer for the 5<sup>th</sup> Food Science Seminar, Kolej Universiti Sains dan Teknologi Malaysia, 2006

Member of the Technical Committee on the Food Safety System – Drafting and preparation of the *Malaysian Standard on Food Safety According to the HACCP System (MS1480:2007)*, SIRIM, 2006-2007

### **International Level**

Liaison officer and contact person for students' participation in ASEAN Food Bowl Quiz at the 11<sup>th</sup> ASEAN Food Conference, Brunei, October 21-23, 2009

Member of LaTrobe University Alumni

Member of University of Tasmania Alumni

Member of University of Canberra Alumni

## **ACTIVITIES RELATING TO STUDENT DEVELOPMENT**

1 Jan 2011 – present

College Principal for Kolej pendeta Za'ba, Universiti Putra Malaysia

Resource person for activities relating to the postgraduate and undergraduate student competitions (Quiz Bowl, Product Development, Oral and Poster Presentations, Oratory) at UPM level for the 7<sup>th</sup> Food Science Seminar, Monash University Malaysia

2009 – 2010

Working group on the Blueprint for Graduate Employability ( GE), Universiti Putra Malaysia

May 2009 – Dec 2010

College Principal for Kolej Tun Perak, Universiti Putra Malaysia

August 2009- present

Advisor for Food Science and Technology Student Society at the Faculty of Food Science and Technology, Universiti Putra Malaysia

Facilitator for Finishing School and Starting School, Universiti Putra Malaysia

2008

Facilitator for the Finishing School, Faculty of Science and Faculty of Biotechnology and Biomolecular Sciences, 2-3 August 2008.

Resource person for activities relating to the postgraduate and undergraduate student competitions (Quiz Bowl, Product Development, Oral and Poster Presentations, Oratory) at UPM level for the 6<sup>th</sup> Food Science Seminar, Universiti Malaysia Sabah

2007

Speaker at the "Postgraduate Forum" at the Faculty of Food Science and Technology during the Putra Sarjana Month.

2006

Resource person for activities relating to the postgraduate and undergraduate student competitions (Quiz Bowl, Product Development, Oral and Poster Presentations, Oratory) at UPM level for the 5<sup>th</sup> Food Science Seminar.

Resource person for student activities for the Hari Bersama Penasihat Akademik.

2003-2005

Industrial training student coordinator at the Sime Darby Technology Centre, Petaling Jaya