

CV Update

1. **Name** : SON RADU
2. **Designation** : Professor
- Qualification** : Ph.D., MSc., BSc.
3. **Department** : Department of Food Science
4. **Faculty** : Faculty of Food Science and Technology
5. **Institution** : University Putra Malaysia
6. **Date of Appointment as Full Professor**: December 2003
7. **Inaugural Lecture**
 Topic: Big Questions Small Worlds: Following Diverse Vistas
 Date: 31st October 2008

8. Administrative Experience

- Deputy Dean (Postgraduate, Research and Innovation), Faculty of Food Science and Technology, UPM (June 2011-now)
- Coordinator (and Founding member), Centre of Excellence for Food Safety Research, Faculty of Food Science and Technology, UPM (2008- May 2011)

9. Work Experience

- Expert Consultant, Food and Agriculture Organisation/World Health Organisation (FAO/WHO) of the UNITED NATIONS
- Chair Person, International Commission for Microbiological Specification of Foods (ICMSF) South-East Asia Sub-Commission
- Adviser (Food Safety), International Foundation for Science (IFS), Sweden
- Scientific Adviser, International Life Sciences Institute (ILSI), Southeast Asia Region, Singapore
- Member, US-JAPAN Cooperative Medical Science Program on Emerging Infectious Diseases (Bacterial Diarrheal Diseases) in the Pacific Rim (Malaysia).
- Scientific Committee member, AFRICA-ASIA DEVELOPMENT UNIVERSITY NETWORK (AADUN), University of Malaya, Malaysia
- Technical Assessor, Department of Standard Malaysia, Ministry of Science, technology and Innovation
- Capacity building on human resource training in Food Safety for Ministry of Health Malaysia

- *Please refer to Section 13 for other work experience*

10. **Field of Specialization** : Molecular Microbiology / Microbial Biotechnology/ Food Safety/ Microbiological Risk Assessment/Molecular Biology

Current Research :

- Exposure Assessment of *Campylobacter* spp. in raw vegetables, poultry products and environmental samples
- Exposure assessment of *Vibrio cholerae* in cordial drinks sold at food stalls
- Exposure assessment of *Vibrio parahaemolyticus* in fresh vegetables and vegetable farm
- Exposure assessment of *Vibrio cholera*, *Vibrio parahaemolyticus* and *Vibrio vulnificus* in fish/cockles
- Exposure Assessment of *Listeria monocytogenes* in cheese
- Exposure assessment of *Listeria monocytogenes* in meat and vegetable burger patties

- Exposure Assessment of *Salmonella* spp. (*S. Typhimurium*, *S. Enteritidis* and *S. Typhi*) in freshly cut ready-to-eat fruits
- Detection of Hepatitis A Virus in vegetables
- Exposure assessment of *Escherichia coli* O157:H7 in local and imported beef
- Exposure assessment of *Escherichia coli* O157:H7 in cordial drinks sold at food stalls
- Development of molecularly imprinted polymer for the detection of malachite green in seafoods
- Development of microbial fuel cells (MFC): novel biotechnology for green energy
- Development of advanced Nano silver particles (nano technology) using biofactories for prolong storage and microbial risk reduction in fresh produce
- Measurement of Uncertainties of the plating techniques for isolation of *Listeria monocytogenes* in poultry
- Application of the Bacterial Ghosts platform technology in molecules delivery

11. Nationality : Malaysian

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13. Current International and University/National Appointments/Networks

University

- a. Deputy Dean (Postgraduate, Research and Innovation), Faculty of Food Science and Technology, University Putra Malaysia, Malaysia

National

- b. Ahli Jawatankuasa, Jawatankuasa Pakar Mikrobiologi, Kementerian Kesihatan Malaysia
- c. Member, National Food Safety Council, Ministry of Health Malaysia
- d. Member, Genetic Modification Advisory Committee (GMAC), Ministry of Natural Resources and Environment, Malaysia
- e. Member, National Antimicrobial Resistance Monitoring Programme, Ministry of Health Malaysia. 1998-now.
- f. Member, Codex Ad Hoc Task Force on Foods Derived From Biotechnology, Ministry of Health Malaysia, Malaysia. 2001-now.
- g. Member, Technical Working Group on GMO, National Food Safety Council, Department of Chemistry, Ministry of Health Malaysia. 2002-now.
- h. Member, Codex Committee on Food Hygiene (CCFH). Ministry of Health Malaysia, Malaysia. 2007-now.

- i. Member, Jawatankuasa Kerja Akta *Allied Health Professions (AHP)* Bagi Profesion Pegawai Sains (Kaji Kuman/Clinical Scientist (Microbiologist), Bahagian Sains Kesihatan Bersekutu, Kementerian Kesihatan Malaysia

International

- j. Expert Consultant/Resource Person on Microbiological Risk Assessment (MRA) and Food Safety, Food and Agriculture Organisation/World Health Organisation (FAO/WHO) of the UNITED NATIONS.
- k. Chair Person, International Commission for Microbiological Specification of Foods (ICMSF) South-East Asia Sub-Commission
- l. Adviser (Food Safety), International Foundation for Science (IFS), Sweden
- m. Scientific Adviser, International Life Sciences Institute (ILSI), Southeast Asia Region, Singapore
- n. Member, US-JAPAN Cooperative Medical Science Program on Emerging Infectious Diseases (Bacterial Diarrheal Diseases) in the Pacific Rim (Malaysia).
- o. Scientific Committee member, AFRICA-ASIA DEVELOPMENT UNIVERSITY NETWORK (AADUN), University of Malaya, Malaysia

Editorial for JOURNALS

- p. Editor, International Food Research Journal
- q. Editorial Board, PERTANIKA Journal, Universiti Putra Malaysia

14. Professional Memberships / Association

- Malaysian Society for Microbiology (Life Member)
- Malaysian Society for Applied Biology (Ordinary Member)
- International Life Sciences Institute (ILSI), Southeast Asia Region, Singapore (Scientific Adviser)
- International Foundation for Science (IFS), Sweden (Science Adviser)
- International Commission for Microbiological Specification of Foods (ICMSF) South-East Asia Sub-Commission (Chairman)
- Food and Agriculture Organisation/World Health Organisation (FAO/WHO) of the UNITED NATIONS (Expert Consultant)
- US-JAPAN Cooperative Medical Science Program on Emerging Infectious Diseases (Member)
- AFRICA-ASIA DEVELOPMENT UNIVERSITY NETWORK (AADUN), University of Malaya, Malaysia (Scientific Committee Member)
- Editor, International Food Research journal
- Editorial Board Member, PERTANIKA Journal of Science and Technology, Universiti Putra Malaysia

15. Special Appointments and Consultancy Projects for Ministry of Health Malaysia

- a. Country Representative, 39th Session of the Codex Committee on Food Hygiene, New Delhi, India, 30 October – 4 November 2007.
- b. Project Leader, National Risk Assessment on *Vibrio parahaemolyticus* in tiger prawn. Commissioned by the Food Safety and Quality Control Division, Ministry of Health Malaysia, Malaysia. 2003-2005. (PDF copy of report submitted to FAO). Through this project, the continuous rejection of the Export of Tiger Prawns to European Union (EU) Countries has been lifted and this benefit all Tiger Prawns producers in Sarawak, Sabah and West Malaysia.

- c. Project Leader, Risk Assessment of *Bacillus cereus* in SUSU 1MALAYSIA. Commissioned by the Food Safety and Quality Control Division, Ministry of Health Malaysia, Malaysia. 2012-2013. Through this special project, the problem related to the frequent cases of food poisoning in schools in Sarawak, Sabah and West Malaysia has been identified. This has definitely provided a tremendous contribution to the health and well beings of the school going children under the SUSU 1MALAYSIA programmes.
- d. Project Leader, Monitoring of *E. coli* in retail beef. 2009-2010. Provide information on the microbiological status of retail beef to ensure safety of consumers.
- e. Project Leader, Monitoring of *Listeria* spp. In cheese products obtained from entry point and retail market. Provide informations on quality and safety of imported cheese and this have prompted the Ministry of Health Malaysia to enforce cheese importers to obtained certification from the Ministry of Health Malaysia.

1. Special Capacity Building Training for Ministry of Health Malaysia

- a. Invited Speaker, Workshop on Strengthening of Food Inspection and Certification for Shrimp & Bivalve Molluscs in Asean Member Countries, 2st November 2007, Le Paris Hotel & Resort, Port Dickson
- b. Invited Speaker, Continuous Food Safety Education (CFSE) on Risk Assessment of Food, 24th May 2007, Bilik Mesyuarat Tingkat 35, KOMTAR, Penang.
- c. Invited Speaker, Latihan Metodologi Penyelidikan Dalam Keselamatan Makanan, 13-17 April 2009. Seri Chempaka Service Suites, Cheras, Kuala Lumpur.
- d. Invited Speaker, Mesyuarat Penguatkuasaan Import Peringkat Kebangsaan. 25 June 2009, Hotel Quality, Shah Alam.
- e. Presented and discuss findings on consultancy projects on: (1) Monitoring of *E. coli* in retail beef, (2) Monitoring of *Listeria* spp. In cheese products obtained from entry point and retail market. 28 April 2010, Putrajaya.
- f. Member, Mesyuarat Jawatankuasa Induk Keselamatan Makanan 1/2011. 17 Julai 2011. Putrajaya
- g. Invited Speaker, Persidangan keselamatan Makanan 2011. 6-8 Disember 2011, Pusat Konvensyen Antarabangsa Putrajaya (PICC).
- h. Invited Speaker, Latihan Intermediate Microbiological Risk Assessment in Food Safety, Bahagian Keselamatan dan Kualiti Makanan, Kementerian kesihatan Malaysia. 21-25 November 2011, Putrajaya.
- i. Invited Speaker, Kursus Metodologi Penyelidikan Sains Kesihatan Bersekutu Kementerian Kesihatan Malaysia, 27 – 29 March 2012, Hotel Seri Malaysia Genting, Pahang.
- j. Invited Speaker, Seminar Keselamatan Makanan 2012 Peringkat Jabatan Kesihatan Negeri Perlis, 31 October 2012, Auditorium Kompleks Jabatan Kesihatan Negeri Perlis, Utan Aji, Kangar, Perlis
- k. Invited Speaker, Kursus Penulisan Manuskrip Penyelidikan Keselamatan dan Kualiti Makanan, Bahagian Keselamatan dan Kualiti Makanan, KKM, 17-21 Disember 2012, Hotel Hang Tuah World Heritage, Melaka.
- l. Panel, Kursus Analisa Statistik Penyelidikan Keselamatan dan Kualiti Makanan, 24-28 September 2012, Hotel Seri Malaysia, Port Dickson, Negeri Sembilan
- m. Member, Jawatankuasa Pakar Mikrobiologi, Kementerian Kesihatan Malaysia 2010-2012.
- n. Member, Bengkel Penetapan Kaedah Analisis untuk Microbiological Criteria for Foods, 15-16 Oktober 2012, Bahagian Keselamatan dan Kualiti Makanan, Kementerian Kesihatan Malaysia.

- o. Ahli, Jawatankuasa Kerja Akta Allied health Professions (AHP) bagi Profession Pegawai Sains (Kaji Kuman)/Clinical Scientist (Microbiologist), 2010-2012. Bahagian Kesihatan Bersekutu, Kementerian Kesihatan Malaysia.
- p. Invited Speaker, Kursus Metodologi Penyelidikan Sains Kesihatan Bersekutu, Kementerian Kesihatan Malaysia, 8-10 April 2013, Coral City Hotel and Resort, Marina Island, Lumut Perak.
- q. Panel, Penilai Projek Penyelidikan, RSEARCH DAY, Bahagian Kesihatan Bersekutu, Kementerian Kesihatan Malaysia, 7-8 Oktober 2013, Putra Jaya.
- r. Invited Speaker, Kursus Penulisan Laporan Penyelidikan Untuk Profesional Sains Kesihatan Bersekutu, Kementerian Kesihatan Malaysia, 18-20 June 2013, Glory Beach Resort, Port Dickson.
- s. Invited Speaker, Kursus Metodologi Kaji Selidik (Questionnaire Survey) Penyelidikan. 26-28 June 2013. Putrajaya.
- t. Invited Speaker, Seminar Isu-Isu Keselamatan Makanan (FASA I) Anjuran Bahagian Keselamatan dan Kualiti Makanan, Jabatan Kesihatan Negeri Kedah, 9 – 10 Januari 2013, Auditorium Hospital Sultanah Bahiyah, KM 6, Jalan Langgar, 05460 Alor Setar, Kedah.

17. Involvements in FAO/WHO Activities

1. Food and Agriculture Organization (FAO) of the United Nation in the Study of Human Pathogens and Emerging Food Safety Problems in Aquaculture, within the framework of the Asia-Pacific Fisheries Commission (APFIC) Working Group of Experts in Food Safety, Mangalore, India. 1999.
2. World Health Organization (WHO)/Food and Agriculture Organization (FAO), Geneva, Switzerland. Participating in the meeting to draft the report on Foods Derived From Biotechnology. 2001.
3. Food and Agriculture Organization (FAO)/World Health Organization (WHO) of the United Nations (FAO), Rome, Italy. Participating in the meeting to draft the report on Risk Assessment of Microbiological Hazards in Foods. Risk Characterization of *Salmonella* spp. In eggs and broiler chicken and *Listeria monocytogenes* in ready-to-eat foods. 2001.
4. Member in the Southeast Asian Region (SEAR) and Western Pacific Region (WPR). World Health Organization (WHO) Global Salmonella-Survey (GSS). (www.who.int/salmsurv). 2001-2004.
5. The Food and Agriculture Organization of the United Nation (FAO) in Collaboration with the International Life Sciences Institute (ILSI) Capacity Building Regional Workshop on Applying Quantitative and Qualitative Models to Food Safety Risk Analysis in Asia, Istana Hotel, Kuala Lumpur, Malaysia. 2002.
6. Participating Laboratory for the Serotyping of *Salmonella* and Antimicrobial Susceptibility Testing of *Salmonella*. World Health Organization (WHO) Global Salm-Surv's (GSS) External Quality Assurance System (EQAS) Panel. globalsalm-surv@listserv.dcd.gov / www.who.ch/salmsurv. 2002.
7. FAO/WHO Regional Conference on Food Safety for Asia and the Pacific, Hotel Royal Adelphi, Seremban, Malaysia. 2004.
8. FAO/WHO/AIFST/FSA pre conference workshop on Microbiological Risk Assessment, Sydney, Australia and 2nd International Conference on Microbial Risk Assessment: Foodborne Hazards. Sponsored by FAO and WHO, Sydney, Australia. 2006.
9. FAO/LKIM/INFOFISH National Workshop on Trade and Technical Aspects of Marketing Seafood and the Launch of The FAO Marketing/Technical Data Base. 2006.
10. Resource Person. Basic Awareness Course on Microbiological Risk Assessment by FAO/WHO of the United Nations and ICD, Jakarta, Indonesia. 2006.
11. Regional Workshop FAO-TCP Project TCP/RAS/3011 "Strengthening National Capabilities in Seafood Trade Policy, including Risk Assessment and Traceability". 2006.

12. Joint FAO/WHO Food Standards Programme & CODEX Committee on Food Hygiene Thirty-ninth Session. The Hyatt Regency Hotel, New Delhi, India. Representing Malaysia. 2007.
13. FAO-MIRCEN Expert workshop on application of biosecurity measures to control *salmonella* contamination in sustainable aquaculture, Mangalore, India. 2010.
14. Joint FAO/WHO Expert Meeting on Risk Assessment Tools for *Vibrio parahaemolyticus* and *Vibrio vulnificus* Associated with Seafoods. Rome, Italy. 13-17 September 2010.
15. Joint FAO/WHO NATIONAL WORKSHOP ON FISH INSPECTION AND STANDARDISATION SERVICES, Phnom Penh, Cambodia, October 18-22, 2010
16. The Joint FAO/WHO Electronic Expert Group on the Public Health Risk Due to the Presence of Salmonella in Bivalves Molluscs. 2011.
17. The Joint FAO/WHO Expert Meeting on Methodology for Detection and Enumeration of *Vibrio parahaemolyticus* and *Vibrio vulnificus* Associated With Seafoods, Ottawa, Canada. 17-19 October 2011.
18. The Joint FAO/WHO Expert Meeting on Methodology for Detection and Enumeration on *Salmonella* in Bivalve Molluscs, Ottawa, Canada. 20-21 October 2011.
19. 10th Biennial Conference of the European Evaluation Society (EES) "Evaluation in the networked society: New concepts, New challenges, New solutions", 3-5 October 2012, Helsinki, Finland. The Codex Trust Fund was established by the Director-Generals of the World Health Organization (WHO) and the Food and Agricultural Organization of the United Nations (FAO) in 2003 to enhance the participation of developing and transition economy countries in the work of the Codex Alimentarius Commission which is responsible for establishing international food safety standards.
20. 'The Selection and Application of Methods for the Detection and Enumeration of Human Pathogenic *Vibrio* SPP in Bivalve Molluscs' to be held from November 19-23, 2012 in Singapore.

18. Involvement in ICMSF activities

1. Since 2007 was active in ICMSF Conferences.
2. December 2009, appointed as the first Chair Person to lead the International Commission for Microbiological Specification of Foods (ICMSF) South-East Asia Sub-Commission
3. ICMSF activities are officially related to the FAO of the United Nations and The Industry Council for Development (ICD), a private non-profit organization with Official relations with the World Health Organization (WHO) of the United Nations.
4. As Chair Person of International Commission for Microbiological Specification of Foods (ICMSF) South-East Asia Sub-Commission, I am planning for an Industry Forum involving ICMSF members from the Industry (e.g. Kraft Australia and Coca-Cola USA and to discuss with the Federation of Malaysian Manufacturer (FMM) through their President, Dr. Tan Luck Pheng (an acquaintance)

19. Involvements in International Foundation for Science, Sweden

- 1998 - recipient of the research grant from IFS
- 2005 - Officially drafted in as SCIENCE ADVISER to IFS and has attended various IFS meeting over the years.
- Involved in recommending research project submitted from various countries for funding by IFS research grant every year.

20. Involvement in US-JAPAN Cooperative Medical Science Program

Through my research collaborator in Kyoto University, Japan, we have been conducting research and presenting our findings in the Annual Meeting of the US-JAPAN Cooperative Medical Science Program.

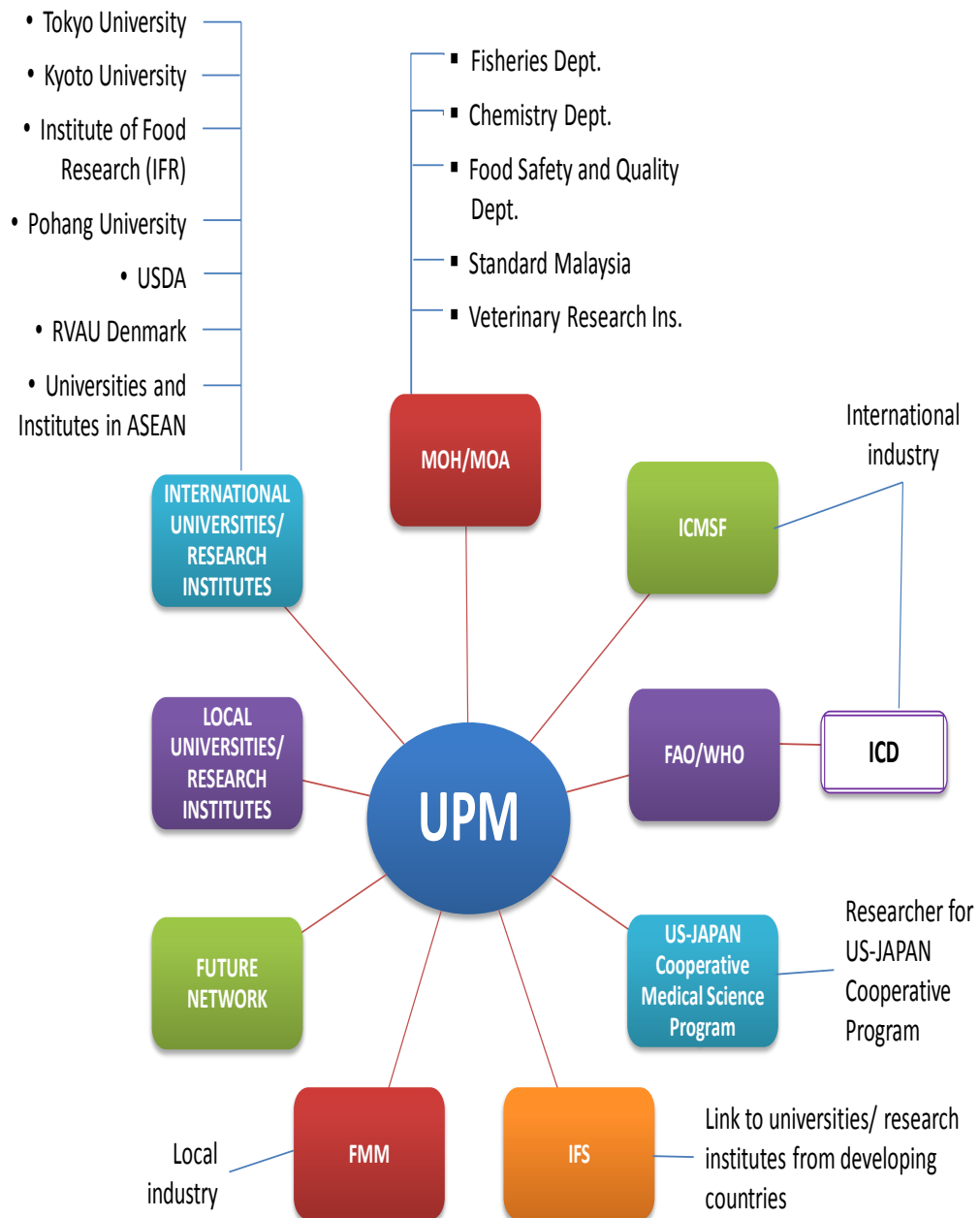
21. Involvement in Africa Asia Development University Network (AADUN)

Member of the Project on Value-added food safety and nutrition requirements for selected households in Malaysia and Indonesia. Since the project leader from University of Malaya is inexperienced, I provide the mentoring to enable the project to be the most productive and active under the AADUN.

22. Other Related Activities

- a. Technical Assessor/LAEP for Department of Standards Malaysia
- b. Coordinator (2008-2010), Centre of Excellence for Food Safety Research, Faculty of Food Science and Technology, University Putra Malaysia, Malaysia
- c. Member, Microbiological Profile of Ready-To-Eat Food Committee. Ministry of Health Malaysia, Malaysia. 2000-2003.
- d. Project Leader, National Risk Assessment on *Vibrio parahaemolyticus* in tiger prawn. Commissioned by the Food Safety and Quality Control Division, Ministry of Health Malaysia, Malaysia. 2003-2005. (PDF copy of report submitted to FAO)
- e. European Commission (EC)-ASEAN Economic Cooperation Programme on Standards, Quality and Conformity Assessment, ASEAN Secretariat, JL. Sisingamangaraja, No 70A, Kebayoran Baru, 12110 Jakarta Selatan, Indonesia. 2005.
- f. Project Leader, Risk Assessment of *Bacillus cereus* in SUSU 1MALAYSIA. Commissioned by the Food Safety and Quality Control Division, Ministry of Health Malaysia, Malaysia. 2012-2013.

23. CURRENT NETWORKING



24. Previous Academic, Post-doctoral training and research, and other relevant appointments

No.	Position	Dates	Institution/Organization	Responsibility
1	Fellow	1990 – 1996	Second Residential College, University of Malaya, Kuala Lumpur, Malaysia	Secretary, 1990-1992; Treasurer, 1993-1996
2	Lecturer	Mar. 1996 – Feb. 2000	Department of Biotechnology, Faculty of Food Science and Biotechnology, University Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia.	Full time teaching and Research
3	Tutor	Sept. 1990 – Feb. 1996	Tutor, Department of Genetics & Cellular Biology, Faculty of Science, University Malaya, 50603 Kuala Lumpur, Malaysia.	Full time teaching and research on molecular characterization of <i>Campylobacter jejuni</i> for MSc. and Ph.D. degrees; and also research on microbiology of <i>E. coli</i> O157:H7 and non-O157, <i>Salmonella enteritidis</i> and <i>Aeromonas hydrophila</i> .
4	Associate Investigator	1996 – 1998	Malaysia-Japan (NBD-NEDO) Research Cooperation on Conservation and Sustainable Use of Tropical Bioresources	Research
5	Visiting scientist, sponsored by Japan Bioindustries Association (JBA).	1-30 Oct. 1997	Department of Bioscience and Biochemistry, Faculty of Agriculture, Hokkaido University, N9W9, Kita-ku, Sapporo 060-8589, Japan.	Malaysia-Japan Cooperative Research on Conservation and Sustainable Use of Tropical Resources. [Collaborative research: Professor Dr. Fusao Tomita].
6	Member	1998 – now	National Antimicrobial Resistance Monitoring Programme, Ministry of Health Malaysia.	Research
7	Participant, Sponsored by Asian Molecular Biology Organization (AMBO), Japan.	1-11 Apr. 1998	National Institute of Genetics, Mishima, Japan	Attended a Course on GENE EXPRESSION. [Supervisor: Professor Dr. Nobuo Shimamoto].

8	Visiting Scientist, Sponsored by Japanese Society for Promotion of Science (JSPS).	1-21 Oct. 1998	Department of Bioscience and Biochemistry, Faculty of Agriculture, Hokkaido University, N9W9, Kita-ku, Sapporo 060-8589, Japan.	Malaysia-Japan Cooperative Research on Conservation and Sustainable Use of Tropical Resources. [Collaborative research: Professor Dr. Fusao Tomita].
9	Visiting Scientist, Sponsored by Japanese Society for Promotion of Science (JSPS).	22-26 Nov. 1998	The R & D Center for Biotechnology LIPI, Cibinong, Bogor, Indonesia.	Instructor in a workshop on the Isolation of Endophyte Fungi from Plants
10	Malaysian Representative (Focal point)	1999 – 2001	Food and Agriculture Organization (FAO) of the United Nation in the Study of Human Pathogens and Emerging Food Safety Problems in Aquaculture, within the framework of the Asia-Pacific Fisheries Commission (APFIC) Working Group of Experts in Food Safety.	Research
11	Principal Investigator	1999 – 2001	Diversity of Endophytes of Malaysian Plants and Their Ecological and Taxonomic Characteristics. JSPS-NRCT/DOST/LIPI/VCC Large-scale Cooperation Research Program in the Field of Biotechnology (Malaysia-Japan).	Research
12	Malaysian Representative (Focal point)	2000 – now	US-Japan Cooperative Medical Science Program (USJCMSP) on Emerging Infectious Diseases (Bacterial Diarrheal Diseases) in the Pacific Rim (Malaysia).	Research and presentation of research findings at the annual meeting.
13	Member	2000 – 2003	Microbiological Profile of Ready-To-Eat Food Committee. Ministry of Health Malaysia, Malaysia.	Research
14	Post Doctoral, Sponsored by Japanese Society for Promotion of Science (JSPS).	1 Aug. 2000 – 31 Dec. 2000	Department of Bioscience and Biochemistry, Faculty of Agriculture, Hokkaido University, N9W9, Kita-ku, Sapporo 060-8589, Japan.	Diversity of Endophytes of Malaysian Plants and Their Ecological and Taxonomic Characteristics, JSPS-NRCT/DOST/LIPI/VCC Large-Scale Cooperation Research Program in the Field of Biotechnology (Malaysia-Japan). [Supervisor: Professor Dr. Fusao Tomita].

15.	Associate Professor	Feb.2000 – Dec. 2003	Department of Biotechnology, Faculty of Food Science and Biotechnology, University Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia.	Full time teaching and Research
16	Member	2001 – now	Codex Ad Hoc Task Force on Foods Derived From Biotechnology, Ministry of Health Malaysia, Malaysia.	To provide advice on safety assessment on foods derived from biotechnology.
17	Visiting Scientist, Sponsored by Japanese Society for Promotion of Science (JSPS).	19 Nov. 2001 – 8 Dec. 2001	Department of Bioscience and Biochemistry, Faculty of Agriculture, Hokkaido University, N9W9, Kita-ku, Sapporo 060-8589, Japan.	Diversity of Endophytes of Malaysian Plants and Their Ecological and Taxonomic Characteristics, JSPS-NRCT/DOST/LIPI/VCC Large-Scale Cooperation Research Program in the Field of Biotechnology (Malaysia-Japan). [Collaborative research: Professor Dr. Fusao Tomita].
18	Expert Consultant Panel	2001	World Health Organization (WHO)/Food and Agriculture Organization (FAO), Geneva, Switzerland.	Participating in the meeting to draft the report on Foods Derived From Biotechnology.
19	Expert Consultant Panel	2001	Food and Agriculture Organization (FAO)/World Health Organization (WHO) of the United Nations (FAO), Rome, Italy.	Participating in the meeting to draft the report on Risk Assessment of Microbiological Hazards in Foods. Risk Characterization of <i>Salmonella</i> spp. In eggs and broiler chicken and <i>Listeria</i> <i>monocytogenes</i> in ready-to-eat foods.
20	Member in the Southeast Asian Region (SEAR) and Western Pacific Region (WPR).	2001 – 2004	World Health Organization (WHO) Global Salmonella-Survey (GSS). (www.who.int/salmsurv).	To conduct research on <i>Salmonella</i>
21	Member of the Minister of Science, Technology and Environment (MOSTE), Malaysia 3-member MMBPP Evaluation Committee (Tan Sri Datuk Dr. Ahmad Zaharuddin Idrus, National Science Advisor to The	28 Feb. 2002 – 1 Mar. 2002	Malaysia-MIT Biotechnology Partnership Program (MMBPP), Massachusetts Institute of Technology (MIT), Massachusetts 02139, USA.	Visiting the participating laboratories in MIT, USA and writing a full evaluation report on the collaboration research to the Minister of Science, Technology and Environment of Malaysia [I took the full responsibility in drafting the report].

	Prime Minister of Malaysia; Tan Sri Augustine Ong, Academy of Science Malaysia; Assoc. Prof. Dr. Son Radu, University Putra Malaysia)			
22	Visiting Scientist, Sponsored by Japanese Society for Promotion of Science (JSPS).	15-25 Dec. 2002	Center for Southeast Asian Studies, Kyoto University, 46 Shimoadachi-cho, Yoshida, Sakyo-ku, Kyoto 606-8501, Japan.	The Dynamic of Flows and Movement (pathogens and diseases) in Southeast Asia [Collaborative research: Professor Dr. Mitsuaki Nishibuchi].
23	Local Organizer	16 Sept. 2002	The Food and Agriculture Organization of the United Nation (FAO) in Collaboration with the International Life Sciences Institute (ILSI) Capacity Building Regional Workshop on Applying Quantitative and Qualitative Models to Food Safety Risk Analysis in Asia, Istana Hotel, Kuala Lumpur, Malaysia.	Co-author of paper presented on risk analysis of hawker foods in Malaysia
24	Delegate and Local Organizer	22 – 24 June 2002	Asean European Ministerial (ASEM) Workshop on Agrofood Bioethics, European Federation of Biotechnology Task Group on International Relation, Palace of Golden Horses, Kuala Lumpur, Malaysia.	Participate in the discussion and drafting of the report
25	Researcher/Member.	2002 – 2005	Core University Program, Japan Society for the Promotion of Science (JSPS), Kyoto University, Japan.	To conduct research on The Dynamics of Flows and Movement in Southeast Asia.
26	Member	2002 – now	Technical Working Group on GMO, National Food Safety Council, Department of Chemistry, Ministry of Health Malaysia	To conduct interlaboratory validation studies on methods for the detection of genetically modified organisms (GMOs). To provide consultancy services to the Ministry of Health Malaysia.
27	Member	2002 – now	Ad-Hoc Group / Technical Committee on Genetically Modified Food. SIRIM Berhad, Selangor, Malaysia.	To provide advice on safety assessment of genetically modified food and the preparation of the draft of a Malaysian standard for GMO

28	Panel Member	2002	World Health Organization (WHO) Global Salm-Surv's (GSS) External Quality Assurance System (EQAS) Panel. globalsalm-surv@listserv.dcd.gov / www.who.ch/salmsurv	detection. Participating Laboratory for the Serotyping of <i>Salmonella</i> and Antimicrobial Susceptibility Testing of <i>Salmonella</i> .
29	Project Leader, National Risk Assessment Committee on <i>Vibrio</i> spp. In Seafoods	Oct. 2002 – 2006	Food Quality Control Division, Ministry of Health Malaysia, Kompleks Pejabat-Pejabat Kesihatan, Jalan Cenderasari, Kuala Lumpur, Malaysia; in collaboration with the World Health Organization (WHO) and Japan International Collaboration Agency (JICA).	Leading the Risk Assessment team on <i>Vibrio parahaemolyticus</i> in Tiger prawn in Malaysia (to submit a detail report to the Ministry of Health, Malaysia to support the export of Tiger prawn due to rejection by certain European Union member countries).
30	Contact Person Asia Link Programme and ASEAN-EU University Network Programme	January 2003 – 2005	Department of Biotechnology, Faculty of Food Science and Biotechnology, University Putra Malaysia.	ASEAN-EU University Network Programme which embraces Curriculum Development under the European Commission involving Universities in Europe and Asia. I am currently making efforts to find suitable partners In Europe and Asia for the implementation of the programme from the Malaysian side.
31.	ISO 9001:2000 Guiding Committee	March 2003 – July 2004	Faculty of Food Science and Biotechnology, University Putra Malaysia.	To lead and guide the members of the ISO 9001:2000 in preparation for the certification of the Faculty.
32	Responsible Person to Prepare the Working Paper, Curriculum Development Committee	March 2003	Department of Biotechnology, Faculty of Food Science and Biotechnology, University Putra Malaysia.	I was given the task to fully prepare the working paper on the curriculum for Master of Science in Biotechnology structure B for implementation in 2004 academic session.
33	Head, Food Analysis Unit, Bureau for Professional Service.	June 2003 – June 2004	Faculty of Food Science and Biotechnology, University Putra Malaysia.	To manage the Food Analysis Unit in providing consultancy Services to Industries or other Government Agencies.
34	Head, Digitalization Unit (ICT)	June 2003 – July 2004	Faculty of Food Science and Biotechnology, University Putra Malaysia.	To Chair the Committee on Digitalization (ICT) of the System in The Faculty of Food Science

35	Member, Scientific Sub-Committee, Research and Development IPTA 2003 Exhibition.	2003	Universiti Putra Malaysia	and Biotechnology, UPM. To edit extended abstract in the Biotechnology field submitted to be presented during the Research and Development IPTA 2003 Exhibition.
36	Member (Ahli), Jawatankuasa Hari Q Fakulti	October 2003	Faculty of Food Science and Biotechnology, University Putra Malaysia.	To participate in the implementation of the Faculty'd Q-Day (Quality Day). Responsible for the preparation of the souvenir programme.
37	Professor	December 2003- July 2004	Department of Biotechnology, Faculty of Food Science and Technology, University Putra Malaysia.	Full time teaching and Research Mentor to several academic staff
38	Member	Jan 2004-2006	Center of Excellence in Food Safety, Faculty of Food Science and Biotechnology, University Putra Malaysia	To participate in the establishment of the Center of Excellence in Food Safety in UPM
39	Visiting Scientist, Sponsored by Japanese Society for Promotion of Science (JSPS).	March 1-31, 2004	Department of Bioscience and Biochemistry, Graduates School of Agriculture, Faculty of Agriculture, Hokkaido University, N9W9, Kita-ku, Sapporo 060-8589, Japan.	Diversity of Endophytes of Malaysian Plants and Their Ecological and Taxonomic Characteristics, JSPS-NRCT/DOST/LIPI/VCC Large-Scale Cooperation Research Program in the Field of Biotechnology (Malaysia-Japan). [Collaborative research: Emmeritus Professor Dr. Fusao Tomita].
40	Chairman, Publicity and International Relations Committee, Faculty of Food Science and Technology	June 2004- 2007	Faculty of Food Science and Technology, University Putra Malaysia.	To help in international and National relation and publicity.
41	Member, Internal Auditing Committee	1 August 2004 – now	Faculty of Food Science and Biotechnology, University Putra Malaysia.	To implement the ISO 9001:2000 for the faculty.
42	Member, Committee on Postgraduate Activities & Seminar	August 2004 -	Faculty of Food Science and Technology, University Putra Malaysia.	To oversee the activities and seminar presentation of postgraduates
43	Project Leader	August 2004 - now	Biology Program, Antarctic Research Project, Malaysian-Antarctica Research Programme,	To lead a research group on Screening for bioactive compounds from bacteria isolated

44	Professor	August 2004 – now	Academy of Sciences Malaysia, Malaysia Department of Food Science, Faculty of Food Science and Technology, University Putra Malaysia.	from water and soil samples from Antarctica Full time teaching and Research Mentor to several academic staff in Food Safety
45	Visiting Scientist	November 21-27, 2004	Department of Bioscience and Biochemistry, Graduates School of Agriculture, Faculty of Agriculture, Hokkaido University, N9W9, Kita-ku, Sapporo 060-8589, Japan.	To further the discussion on Research Collaboration
46	Pre-Qualification Auditing	23-24 February, 2005	Faculty of Food Science and Technology, UPM	Leader of the Internal Auditing team to audit Academic and Student Affairs Division
47	Leader, Committee on Preparation of the Exhibition on Innovation, Research & Development 2005	16-17 Mac 2005	Faculty of Food Science and Technology and the Research Management Center, UPM.	To ensure all preparation for the exhibition are complete and in place
48	Expert Consultant	April 2005 – November 2005	European Commission (EC)-ASEAN Economic Cooperation Programme on Standards, Quality and Conformity Assessment, ASEAN Secretariat, JL. Sisingamangaraja, No 70A, Kebayoran Baru, 12110 Jakarta Selatan, Indonesia.	To oversee the Installation of Methodologies in Asean Reference Laboratories and Preparation to Accreditation, Department of Chemistry, Malaysia, Kuala Lumpur.
49	Member, Technical Working Groups 16 (TWG 16)	April 2005 – September 2005	Jabatan Standard Malaysia, Kementerian Sains, Teknologi dan Inovasi, Aras 1 & 2, Blok C4, Parcel C, Pusat Pentadbiran Kerajaan Persekutuan, 62502 Putrajaya, Malaysia	To prepare the document and procedure for the Accreditation of Laboratory Testing for Genetically Modified Organisms (GMO) under Malaysian Accreditation Scheme for Laboratory [skim Akreditasi Makmal Malaysia (SAMM)]
50	Scientific Adviser	September 2005 - now	International Foundation for Science, Sweden	To provide scientific advice and to evaluate project application under the International Foundation for Science, Sweden grant.
51	Member, Technical Committee 20/21 on Genetically Modified Food.	2005 - now	SIRIM Berhad, Malaysia.	To draft, vote on documents related to the development of Malaysian Standards for the detection of Genetically Modified Food.

52	Member, Technical Working Group 16 (TWG 16)	August 2005 - now	Jabatan Standard Malaysia, Kementerian Sains, Teknologi dan Inovasi, Aras 1 & 2, Blok C4, Parcel C, Pusat Pentadbiran Kerajaan Persekutuan, 62502 Putrajaya, Malaysia	To prepare the document and procedure for the Accreditation of Laboratory Testing for DNA under Malaysian Accreditation Scheme for Laboratory [skim Akreditasi Makmal Malaysia (SAMM)]
53	Focal Point (Contact Person)	2006 - now	FAO/WHO Network on Microbiological Risk Assessment	As the representative from this region in the network for exchange of information and technology transfer among countries in order to facilitate the implementation of microbiological risk assessment as a useful tool in food safety
54	Editor, ASEAN Food Journal	2006 - now	Faculty of Food Science and Technology, Universiti Putra Malaysia	Manage, process and edit manuscript submitted for publication in the ASEAN Food Journal
55	Resource Person	2006	FAO/WHO of the United Nations	To participate as a lecturer on Basic Awareness Course on Microbiological Risk assessment
56	Member, Laboratory Accreditation Evaluation Panel (LAEP) Under SAMM	2006 - now	Department of Standards Malaysia, Ministry of Science, Technology and Innovation, Level 1 & 2, Block C4, Parcel C, Federal Government Administrative Centre, 62502 Putrajaya, Malaysia	To review, recommend and advise the DSM Director General on the decision of accreditation
57	Head, Graduate Studies by Course Work (Food Safety)	2006 – now	Faculty Of Food Science and Technology, Universiti Putra Malaysia	Oversee the implementation of the MS structure C in Food Safety
58	Trainer	2006 - now	Microbiological Risk Assessment A basic awareness course	Conducting Training Workshop on behalf of the FAO/WHO of the United Nations in the Asian Region
59	Web Master and Editor	2006 - now	FAO/WHO Microbiological Risk Assessment in the South East Asian Regional Network in Collaboration with the National Food Safety Research Centre, UPM (as the hosting Institution)	A basic web-based regional risk assessment portal could be created quite simply to provide details to contacts, news and events and technical materials. The purpose of the network is to strengthen capacity building on MRA among risk managers, risk assessors and others in countries in Asia.

60	Assessment Panel	2-6 April 2007	Research Management Center, Universiti Putra Malaysia	Evaluating project application under Pure Science for projects under the Fundamental Research Grant Scheme (FRGS) Phase 2/2007.
61	Adviser and Selection Panel	11-14 May, 2007	International Foundation for Science (IFS), Bern, Switzerland	To evaluate and recommend projects for funding under the International Foundation for Science (IFS)
62	Expert Panel on Academic Writing	2007 - now	Faculty of Food Science and Technology, Universiti Putra Malaysia	To guide academic staff on writing scientific papers for publication in peer reviewed journals
63	Member, Ad Hoc on Antimicrobial Resistance (AMR)	2007 - now	Food Safety and Quality Division, Ministry of Health Malaysia	Involved in the discussion of the Elaboration of Standards, Guidelines or other Texts on Antimicrobial Resistance.
64	Member, Codex Committee on Food Hygiene (CCFH)	2007- now	Food Safety and Quality Division, Ministry of Health Malaysia	Involve in the drafting of documents related to the activities of the Codex Committee on Food Hygiene (CCFH)
65	Representing Ministry of Health Malaysia	29 Oct. – 5 Nov. 2007	Joint FAO/WHO Food Standards Programme & CODEX Committee on Food Hygiene Thirty-ninth Session. The Hyatt Regency Hotel, New Delhi, India	Involve in the meeting to represent Malaysia's position on issues raised in the meeting
66	Adviser and Selection Panel	9-11 November, 2007	International Foundation for Science (IFS), Cape Town, South Africa	To evaluate and recommend projects for funding under the International Foundation for Science (IFS)
67	External Assessor	November 2007	Malaysian Science University (USM)	To evaluate the candidate for promotion to Associate Professor
68	Invited Lecturer, Workshop on Strengthening of Food Inspection and Certification for Shrimp & Bivalve Molluscs in ASEAN Member Countries	21 November 2007	Food Safety and Quality Division, Ministry of Health Malaysia	Lecture on Microbiological Risk Assessment of <i>Vibrio parahaemolyticus</i> in tiger prawn in Malaysia
69	Expert Panel	25 – 27 November 2007	UMBI Laboratory Accrediation Retreat, Awana Kijal Golf & Beach Resort, Terengganu, Malaysia	To provide advice on writing the Quality Manual
70	Adviser and Selection Panel	8-12 May, 2008	International Foundation for Science (IFS),	To evaluate and recommend projects for

			Antananarivo, Madagascar	funding under the International Foundation for Science (IFS)
71	Adviser and Selection Panel	19 - 23 November, 2008	International Foundation for Science (IFS), Copenhagen, Denmark	To evaluate and recommend projects for funding under the International Foundation for Science (IFS)
72.	Coordinator	2008 – 2011	Centre of Excellence for Food Safety Research, Faculty of Food Science and Technology, Universiti Putra Malaysia	Founding member and to coordinate activities of the centre
73	Editorial Board member	2009-now	PERTANIKA Journal, Universiti Putra Malaysia	To attend the board meeting, contribute ideas to improve the journal, review manuscript submitted for publication
74.	Project Leader	2012-2013	Risk Assessment of <i>Bacillus cereus</i> in SUSU 1MALAYSIA	To find a solution to the persistent food poisoning cases among school children throughout Malaysia due to consumption of the SUSU 1 Malaysia free UHT milk

25. Honors and Awards

1. Excellent Service Award 1996. Faculty of Food Science and Biotechnology, University Putra Malaysia.
2. Excellent Service Award 1997. Faculty of Food Science and Biotechnology, University Putra Malaysia.
3. Travel Award (1997) to the American Society for Microbiology Symposium, Miami, USA. University Putra Malaysia, Malaysia.
4. Fellowship & Travel Award (1997) to Hokkaido University, Japan. Japan Bioindustries Association (JBA).
5. Fellowship & Travel Award (1998) to the R & D Center for Biotechnology LIPI, Cibinong, Bogor, Indonesia. Japanese Society for Promotion of Science (JSPS).
6. Fellowship & Travel Award (1998) to the National Institute of Genetics, Mishima, Japan. Asian Molecular Biology Organization (AMBO), Japan.
7. Excellent Service Award 1998. Faculty of Food Science and Biotechnology, University Putra Malaysia.
8. Research Grant Award 1998. International Foundation for Science, Sweden.
9. Research Grant Award 1998. Malaysia Toray Science Foundation, Malaysia.
10. Fellowship & Travel Award (1998) to Hokkaido University, Japan. Japanese Society for Promotion of Science (JSPS).
11. Travel Award (1998) to the Fourth Asia Pacific Food Analysis Conference, Chiangmai, Thailand. International Foundation for Science, Sweden.
12. Excellent Service Award 1999. Faculty of Food Science and Biotechnology, University Putra Malaysia.
13. Excellent Service Award 2000. Faculty of Food Science and Biotechnology, University Putra Malaysia.
14. Listed in the MARQUIS "WHO's WHO IN THE WORLD (in Science)", 16th, 17th, 18th, 19th, 20th Edition, New York, USA. Marquis Who's Who, 121 Chanlon Road, New Providence, NJ 07974.
15. Travel Award (1999) to the Workshop on the Study of Human Pathogens and Emerging Food Safety Problems in Aquaculture, within the framework of the Asia-Pacific Fisheries Commission (APFIC) Working Group of Experts in Food Safety in Mangalore, India. Food and Agriculture Organization (FAO) of the United Nation, Rome, Italy.
16. Fellowship & Travel Award (2000) to Hokkaido University, Japan. Japanese Society for Promotion of Science (JSPS).
17. Fellowship and Travel Award to the BioThailand 2001: From Research to Market Conference, Bangkok, Thailand. Japanese Society for Promotion of Science (JSPS).
18. Fellowship and Travel Award (2001) to Hokkaido University, Japan. Japanese Society for Promotion of Science (JSPS).
19. Travel Award (2001) to the 6th International Conference on Emerging Infectious Diseases in the Pacific Rim, Manila, Philippines. US-Japan Cooperative Medical Science Program, Japanese Panel.
20. Travel Award (2001) to the 11th World Congress of Food Science and Technology, Seoul, Korea. International Foundation for Science (IFS), Sweden.
21. Travel Award (2001) to the Joint FAO/WHO Expert Consultation on Risk Assessment of Microbiological Hazards in Foods. Food and Agriculture Organization (FAO)/World Health Organization (WHO) of the United Nations, Rome, Italy.
22. Travel Award (2001) to the Joint WHO/FAO Expert Consultation on Foods Derived from Biotechnology. World Health Organization (WHO)/Food and Agriculture Organization (FAO) of the United Nations, Geneva, Switzerland.
- 23. The Outstanding Young Malaysian 2001 Awards for Academic Leadership and Achievement. Junior Chamber of Malaysia.**

24. Nominee (2001) to represent Malaysia by Junior Chamber Malaysia for The Outstanding Young Persons of the World Award. Junior Chamber International, TOYP, 400 University Drive, P.O. Box 140577, Coral Gables, FL 33114-0577, U.S.A.
25. Excellent Service Award 2001. Faculty of Food Science and Biotechnology, University Putra Malaysia.
26. Fellowship & Travel Award (2002) to the USJCMSP Asian Region Collaboration Research Project Meeting, Tokyo, Japan. US-Japan Cooperative Medical Science Program (USJCMSP), Japanese Panel.
27. Silver Medal Award. Exhibition on "The study of a novel natural biopreservative, Nisin Bacteriocin, produced by friendly Lactic Acid Bacteria isolated from Malaysian Ikan Rebus". University Putra Malaysia Research & Development Exhibition 2002.
28. Silver Medal Award. Exhibition on "Detection of GM Food by Real Time Polymerase Chain Reaction". Faculty of Food Science and Biotechnology Research & Development Exhibition 2002.
29. Gold Medal Award. Exhibition on "Development of Rapid Polymerase Chain Reaction Method in GMO Detection". University Putra Malaysia Research & Development Exhibition 2002.
30. Excellent Service Award 2002. Faculty of Food Science and Biotechnology, University Putra Malaysia.
31. Fellowship & Travel Award (2002) to Kyoto University, Japan. Japanese Society for Promotion of Science (JSPS).
32. Silver Medal Award. Exhibition on "Development of membrane based assay for the rapid identification of multiple drug resistant *Staphylococcus aureus*". Research & Development Exhibition, University Putra Malaysia 2003.
33. Excellent Service Award 2003. Faculty of Food Science and Biotechnology, University Putra Malaysia.
34. Fellowship & Travel Award (2004) to Mahidol University, Thailand. Japanese Society for Promotion of Science (JSPS).
35. Fellowship and Travel Award (2004) to Hokkaido University, Japan. Japanese Society for Promotion of Science (JSPS).
36. Fellowship and Travel Award (2004) to the JSPS-NCRT, DOST, LIPI, VCC Seminar on Sustainable Use of Bioresources in the Tropics, Bali, Indonesia. Japanese Society for Promotion of Science (JSPS).
37. Fellowship and Travel Award (2004) to US-Japan Cooperative Medical Science Program (USJCMSP) 40th Anniversary Meeting and the 9th International Conference on Emerging Infectious Diseases in the Pacific Rim, Kyoto, Japan. US-Japan Cooperative Medical Science Program, Japanese Panel.
38. Fellowship and Travel Award (2005) to the International Foundation for Science meeting in Bangkok, Thailand. International Foundation for Science, Sweden.
39. Bronze Medal. Biotechnology Asia 2005 Exhibition. Ministry of Science, Technology and Innovation, Malaysia
40. Key Invited Speaker. 2005. Seminar on Genetically Modified Organisms. Institute for Biotechnology Research, University Malaysia Sabah, Malaysia.
41. Silver Medal Award. Exhibition on Species identification in processed meats by PCR-RFLP. Development, Research and Innovation Exhibition 2005, Research Management Center (RMC), University Putra Malaysia.
42. Silver Medal Award. Exhibition on The analysis of presence of genetically modified organism in soy by polymerase chain reaction. Development, Research and Innovation Exhibition 2005, Research Management Center (RMC), University Putra Malaysia.

43. Silver Medal Award. Exhibition on Detection of *Vibrio parahaemolyticus* by using specific-PCR. Development, Research and Innovation Exhibition 2005, Research Management Center (RMC), Universiti Putra Malaysia.
44. Silver Medal Award. Exhibition on Real Time PCR qualitative detection methods of genetically modified organisms with the Light Cycler instrument. Development, Research and Innovation Exhibition 2005, Research Management Center (RMC), Universiti Putra Malaysia.
45. Silver Medal Award. Exhibition on Risk Assessment: A scientific basis for risk analysis. Development, Research and Innovation Exhibition 2005, Research Management Center (RMC), Universiti Putra Malaysia.
46. Silver Medal Award. Exhibition on Polymerase chain reaction: analysis of raw pork and lard for halal authentication. Development, Research and Innovation Exhibition 2005, Research Management Center (RMC), Universiti Putra Malaysia.
47. Silver Medal Award. Exhibition on Thermostable lipase from local strains of lipase-producing thermophilic bacteria. Development, Research and Innovation Exhibition 2005, Research Management Center (RMC), Universiti Putra Malaysia.
48. Bronze Medal Award. Exhibition on RAPD-molecular tools in analyzing sources of *Vibrio parahaemolyticus*. Development, Research and Innovation Exhibition 2005, Research Management Center (RMC), Universiti Putra Malaysia.
49. Bronze Medal Award. Exhibition on Natural phenomenon: Its effect on cholera dissemination. Development, Research and Innovation Exhibition 2005, Research Management Center (RMC), Universiti Putra Malaysia.
50. Bronze Medal Award. Exhibition on Phylogenetic relationship, cloning and sequencing of a novel partial phytase gene from a new phytase-producing bacterium, *Mitsuokella jalaludini*. Development, Research and Innovation Exhibition 2005, Research Management Center (RMC), Universiti Putra Malaysia.
51. Faculty's Excellent Research Award, 2005. Faculty of Food Science & Technology, UPM
52. Fellowship and Travel Award (2006) to the FAO/WHO/AIFST/FSA PreConference Workshop on Microbiological Risk Assessment and 2nd International Conference on Microbial Risk Assessment. FAO/WHO of the United Nation.
53. Gold Medal. 17th International Invention, Innovation, Industrial Design Technology Exhibition Malaysia (I-TEX 2006). KLCC, Malaysia.
54. Silver Medal. Real Time PCR for quantitative detection of genetically modified organism in soy and its products. 17th International Invention, Innovation, Industrial Design Technology Exhibition Malaysia (I-TEX 2006). KLCC, Malaysia.
55. Bronze Medal. Discrimination of *Salmonella* spp. By ERIC-PCR. Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.
56. Silver Medal. Identification and prevalence of *Campylobacter* species in broiler chickens from wet market and supermarket using a rapid method of MPN-PCR. Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.
57. Silver Medal. Rapid and simple method for Most probable Number – Polymerase Chain Reaction (MPN-PCR) quantification of thermophilic *Campylobacter* species in raw vegetables (ulam). Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.
58. Silver Medal. Incidence and characterization of *Salmonella* species in street food and clinical samples. Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.

59. Bronze Medal. Modeling of risk in food. Why and how? Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.
60. Bronze Medal. Antagonistic Actinomycetes species against food pathogens. Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.
61. Silver Medal. Halal food authentication: detection of pig derivatives using molecular biology techniques. Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.
62. Bronze Medal. Random amplified polymorphic DNA analysis of Genetically Modified Organisms. Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.
63. Silver Medal. Surface plasmon resonanace biosensor chip for real-time detection of Genetically Modified Organisms. Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.
64. Silver Medal. Membrane based detection of Genetically Modified Organisms. Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.
65. Silver Medal. SPR biosensor chip for the detection of GMO. 18th International Invention, Innovation, Industrial Design Technology Exhibition Malaysia (I-TEX 2007). KLCC, Malaysia.
66. Bronze Medal. Membrane-based detection of genetically modified organisms. International Exposition of Research and Inventions of Institution of Higher Learning 2007 (pecipta07). Kementerian Pengajian Tinggi Malaysia dan Universiti Sains Malaysia. 10-12 August 2007. Kuala Lumpur Convention Centre.
67. Silver Medal. Virulotyping of Salmonella Enterica subsp. Enterica. Exhibition on Development, Research & Innovation 2008 (PRPI 2008). Research Management Centre, Universiti Putra Malaysia. 29-31 July 2008.
68. Silver Medal. Real-Time PCR detection of herbicide resistance gene. Exhibition on Development, Research & Innovation 2008 (PRPI 2008). Research Management Centre, Universiti Putra Malaysia. 29-31 July 2008.
- 69. Anugerah Perkhidmatan Cemerlang 2007, Universiti Putra Malaysia**
70. Third Prize Winner for Poster Presentation (Biological Sciences) Category. 4th Malaysia International Seminar on Antarctica (MISA4) Legacy of IPY to the Tropics. 1-3 April 2009. Petaling Jaya, Malaysia.
71. Bronze Medal. Salmonella pathogenicity island (SPIs) typing kit and Caenorhabditis elegans as a simple model for Salmonella Enterica pathogenesis. Exhibition on Development, Research & Innovation UPM 2009. 28 July 2009.
72. Bronze Medal. Novel and Practical Sterilization Approach to Control Major Pathogenic Bacteria on Meat. Pameran Reka Cipta, Penyelidikan dan Inovasi Malaysia 2012. 17-17 July 2012, UPM, Serdang, Selangor.
- 73. Outstanding Contribution to Postharvest Horticulture Community in the Asia-Pacific Region, 2013. Given by the International Society for Horticulture Science.**
- 74. Outstanding Achievement as a Five-STAR Role Model Supervisor, Universiti Putra Malaysia.**

26. PATENT

1. Single Chamber membraneless Microbial Fuel Cell
2. Green Synthesis of Silver Nanoparticles

27. Teaching Experience

Undergraduate

Number of credit hours and titles of courses taught

No.	Semester	Title of Courses	Credit hours	No. of students
1	1990 – 1996	Topics in Genetics and Microbiology, Tutorial and Practical Classes at the Department of Genetics and Cellular Biology, University of Malaya, Kuala Lumpur.	9 hours / week	Average 30
2	July 1996	BTE3401 Introduction to Microbial Biotechnology	3 + 1	52
3	Dec. 1996	FST3201 Basic Food Microbiology.	2 + 1	115
4	May 1997	BTE3401 Introduction to Microbial Biotechnology.	3 + 1	96
5	Nov. 1997	BTE4503 Research Techniques in Molecular Biology.	2 + 1	61
6	Nov. 1997	FST3201 Basic Food Microbiology.	2 + 1	50
7	May 1998	BTE3401 Introduction to Microbial Biotechnology	3 + 1	92
8	May 1998	BTE3501 Genetic Engineering.	2 + 1	106
9	May 1998	FST4501 Food Microbiology. Credit hours: 3 hours (37 Students)	3 hours to teach molecular aspect.	37
10	Nov. 1998	BTE4503 Research Techniques in Molecular Biology.	2 + 1	45
11	May 1999	BTK3401 Introduction to Microbial Biotechnology.	3 + 1	96
12	Nov. 1999	BTK4503 Research Techniques in Molecular Biology.	2 + 1	50
13	May 2000	BTK4503 Research Techniques in Molecular Biology.	2 + 1	80
14	Nov. 2000	BTK3401 Introduction to Microbial Biotechnology.	2 + 1	100
15	May 2001	BTK4503 Research Techniques in Molecular Biology.	2 + 1	80
16.	May 2001	BTK499 Seminar.	0 + 1	13
17	Nov. 2001	BTK3401 Introduction to Microbial Biotechnology	2 + 1	120
18	Nov. 2001	BTK4503 Research Techniques in Molecular Biology.	2 + 1	15
19	May 2002	BTK4203 Microbial Genetics	3 + 1	38
20	Nov. 2002	BTK3401 Introduction to Microbial Biotechnology	2 + 1	110

21	May 2003	BTK4203 Microbial Genetics	3 + 1	50
22	May 2003	FST3201 Basic Food Microbiology	0 + 2	150
23	November 2003	BTK4800 Seminar	0 + 1	93
24	November 2003	BTK5201 Molecular Diagnostic	3 + 0	25
25	November 2003	BTK3401 Introduction to Microbial Biotechnology	3 + 1	74
26	November 2003	BTK4004 Instrumentation in Biotechnology Research	1 + 1	100
27	May 2004	BTK4203 Microbial Genetics	3 + 1	29
28	May 2004	FST3105 Food Biochemistry (Lectures on DNA, RNA, Protein – 6 hours, 2 labs for 6 hours)	3 + 2	150
29	November 2004	FST3201 Basic Food Microbiology	2 + 1	63
30	November 2004	FST5205 Foodborne Pathogen	1 + 2	10
31	July 2005	FST5203 Microbial Ecology in Food	3 + 0	9
32	December 2005	FST4806 Food Hygiene and Sanitation	2 + 0	70
33	December 2005	FST3201 Basic Food Microbiology	2 + 1	63
34	July 2006	FST5102 Research Techniques in Food Biotechnology	2 + 1	20
35	July 2006	FST3202 Food Microbiology	2 + 1	88
36	July 2006	FST3110 Food Biochemistry (Lectures on DNA, RNA, Protein – 6 hours, 2 labs for 6 hours)	3 + 1	100
37	December 2006	FST3201 Basic Food Microbiology	3 + 1	120
38	December 2006	FST4823 Food Hygiene and Sanitation	3 + 0	49
39	December 2006	FST6201 Issues in Food Safety	3 + 0	11
40	July 2007	FSM3201 Food Microbiology and Safety	2 + 1	100
41	July 2007	FST3110 Food Biochemistry (Lectures on DNA, RNA, Protein – 6 hours, 2 labs for 6 hours)	3 + 1	100
42	July 2007	FST5102 Research Techniques in Food Biotechnology	3 + 1	11
43	December 2007	FST4823 Food Hygiene and Sanitation	3 + 0	50
44	December 2007	FST5201 Food Quality Management and Safety	3 + 0	26
45	July 2008	FST4823 Food Hygiene and Sanitation	3 + 0	60
46	July 2008	FST4601 Food Safety and Microbiology	3 + 1	35
47.	December 2008	FST4606 Kaedah Pantas Dalam Analisis Makanan (Rapid Methods in Food Analysis)	1 + 2	30
48.	December 2008	FST4823 Food Hygiene and Sanitation	3 + 0	55

49.	December 2008	FST5102 Research Techniques in Food Biotechnology	3 + 0	11
50.	July 2009	FST4823 Food Hygiene and Sanitation	3 + 0	50
51.	July 2009	FST4601 Food Safety and Microbiology	3 + 1	20
52.	July 2009	FST5102 Research Techniques in Food Biotechnology	3 + 1	20
53.	July 2010	FST4601 Food Safety and Microbiology	3 + 1	36
54.	July 2010	FST5201 Food Quality Management and Safety	3 + 0	26
55.	November 2010	FST4606 Kaedah Pantas Dalam Analisis Makanan (Rapid Methods in Food Analysis)	1 + 2	30
56.	September 2011	FST4606 Kaedah Pantas Dalam Analisis Makanan (Rapid Methods in Food Analysis)	1 + 2	30
57.	December 2011	FST4601 Food Safety and Microbiology	3 + 1	32
58.	September 2012	FST4601 Food Safety and Microbiology	3 + 1	33
59.	September 2012	FST5102 Research Techniques in Food Biotechnology	3 + 1	12
60.	September 2013	FST4601 Food Safety and Microbiology	3 + 1	33
61.	September 2013	FST5102 Research Techniques in Food Biotechnology	3 + 1	11
62.	February 2014	FST4606 Kaedah Pantas Dalam Analisis Makanan (Rapid Methods in Food Analysis)	1 + 2	30

28. Language Proficiency:

Languages	Speaking	Writing	Reading
English	Excellent	Excellent	Excellent
Bahasa Malaysia	Excellent	Excellent	Excellent
Kelabit	Excellent	Excellent	Excellent

29. Research Activities

Research Completed

No.	Title	Source of grant/fund	Duration
1.	Malaysia-Japan (NBD-NEDO) Research Cooperation on Conservation and Sustainable Use of Tropical Bioresources	Japanese Society for Promotion of Science (JSPS).	1996-1998
2.	Molecular Systematics of Bacteria	University Putra Malaysia, funded through SEED money.	1996
3.	Molecular Characterization of <i>Salmonella enteritidis</i> Isolated From Human, Animal, Avian and Environmental Sources	University Putra Malaysia, funded through SEED money.	1997
4.	Conjugal Transfer of Antibiotic Resistance and Plasmid Among <i>Escherichia coli</i> O157 Isolated From Imported Beef	University Putra Malaysia, funded through SEED money.	1997
5.	Prevalence and Molecular Characterization of Foodborne Pathogen	Intensification of Research in Priority Areas (IRPA), Ministry of Science, Technology and Environment of Malaysia.	1996-1998
6.	Lactic Acid Bacteria or Their Metabolic End Products as Biopreservatives	Intensification of Research in Priority Areas (IRPA), Ministry of Science, Technology and Environment of Malaysia.	1996-1998
7.	Molecular Characterization of <i>Vibrio vulnificus</i> (an Emerging Foodborne Pathogen)	Intensification of Research in Priority Areas (IRPA), Ministry of Science, Technology and Environment of Malaysia.	1998
8.	Investigation on the effects of change in tropical environment of Southeast Asia on	Travel grant for overseas (creation and development) research for FY 1998	1998-1999

	infectious diseases		
9.	Prevalence and Molecular Characterization of Enterohaemorrhagic <i>Escherichia coli</i> O157:H7	Malaysia Toray Science Foundation.	1998-1999
10.	Prevalence and Molecular Characterization of Enterohaemorrhagic <i>Escherichia coli</i> O157:H7 and Non-O157 Isolates	International Foundation for Science, Sweden.	1997-1998
11.	Dynamics of bacterial enteropathogens in Asean environments	Basic Science (A)(2) for FY 1999 – 2001 from the Ministry of Education, Science, Sports, and Culture, Japan	1999-2002
12.	Study on emergence and spread of a new clone of <i>Vibrio parahaemolyticus</i> , <i>Escherichia coli</i> O157, and <i>Vibrio cholerae</i> O139 in Malaysia and Thailand.	US-Japan Cooperative Medical Science Program Fund for the studies on Asia for FY 1999	2000-2001
13.	Study on the infections due to the new <i>Vibrio parahaemolyticus</i> clone, <i>Escherichia coli</i> O157, and <i>Vibrio cholerae</i> O139 in Malaysia and Thailand	US-Japan Cooperative Medical Science Program Fund for the studies on Asia for FY 2000	2001-2003
14.	Diversity of Endophytes of Malaysian Plants and Their Ecological and Taxonomic Characteristics, JSPS-NRCT/DOST/LIPI/VCC Large-Scale Cooperation Research Program in the Field of Biotechnology (Malaysia-Japan).	Japanese Society for Promotion of Science (JSPS).	1999 – 2001
15.	Distribution of Pathogenic <i>Vibrios</i> in Malaysian Seafoods and its Association with Human Diarrhea	Intensification of Research in Priority Areas (IRPA), Ministry of Science, Technology and Environment of Malaysia.	1998-2000
16.	Molecular and Biochemical Characterization of Bacteriocins and Proteolytic Enzymes From Lactic Acid Bacteria	Intensification of Research in Priority Areas (IRPA), Ministry of Science, Technology and Environment of Malaysia.	1999-2001
17.	Risk Assessment of Microbiological Hazards and Emerging Food Safety Problems in Aquaculture	Intensification of Research in Priority Areas (IRPA), Ministry of Science, Technology and Environment of Malaysia.	2000-2002
18.	Epidemiological study on emerging infectious	Okayama Health Foundation 26 th Research Fund,	2001-2002

	diseases in the developing countries in Asia	Japan.	
19.	Distribution of the new types of bacterial enteric pathogens in Asian environment and their spread within Asia and to the surrounding area	International Collaborative Research Fund from Yuasa International Foundation, Japan.	2001-2002
20.	Development of diagnostic DNA probe for detection and identification of <i>Vibrio cholerae</i> O139	Intensification of Research in Priority Areas (IRPA), Ministry of Science, Technology and Environment of Malaysia.	2002-2003
21.	Evaluation of the possible risk of cockles contamination by <i>Vibrio parahaemolyticus</i>	Funded by Ministry of Health Malaysia and Food and Agriculture Organization of the United Nations (FAO)	2002-2003
22.	Study on the spread of pandemic infection by a new type of <i>Vibrio parahaemolyticus</i> and safety of imported and exported seafood	4 th Advanced Scientific Technology Research Fund from Toyota Motor Corporation	2002-2003
23.	Molecular genetic study on the new pandemic clone of <i>Vibrio parahaemolyticus</i>	Special Area © (2) for FY 2001-2002 from Ministry of Education, Science, Sports and Culture, Japan	2001-2002
24.	Epidemiological study on emerging infectious diseases in the developing countries in Asia	Ohyama Health Foundation 27 th Research Fund	2002-2003
25.	Molecular epidemiological study on emerging bacterial enteric pathogens in Asia	Basic Science (A) (2) for FY 2002-2005 from Japan Society for Promotion of Science	2002-2005
26.	Relationship between the infection by the infection-type food-borne pathogen and the expression of the gene encoding its major virulence factor (toxin)	Special Area (2) for FY 2004-2005 from Ministry of Education, Science, Sports and Culture, Japan	2004-2005
27.	Study on <i>Vibrio parahaemolyticus</i> in the Malaysian environment: quantitative detection of virulent strains and presence/absence of the new pandemic clone	2004 US-Japan Collaborative Medical Science Program Support for Asian Area Study	2004-2005
28.	The Dynamics of Flows and Movement in Southeast Asia	Core University Program, Japan Society for the Promotion of Science (JSPS), Kyoto University,	2002-2005

29.	Microbial prospecting for bioactive and useful substances from endophytic fungi isolated from medicinal plants	Japan. Intensification of Research in Priority Areas (IRPA), Ministry of Science, Technology and Environment of Malaysia.	2002-2004
30.	Risk Assessment of <i>Vibrio parahaemolyticus</i> in Tiger prawn	Funded by Ministry of Health Malaysia, World Health Organisation of the United Nations (WHO) and Japan International Collaboration Agency – JICA	2003-2004
31.	Halal foods: Application of polymerase chain reaction (PCR) technique for identification of raw and processed meats from chicken, beef and pork	Consultancy Research Project for Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia	2004
32.	Fingerprinting of prawn species using PCR-RFLP method	Consultancy Research Project for Universiti Teknologi MARA, Cawangan Terengganu, Terengganu, Malaysia	2004-2005
33.	Pengembangan metode deteksi cepat bakteri <i>Vibrio parahaemolyticus</i> secara molekular dengan teknik polymerase chain reaction (PCR)	Hibah Bersaing Perguruan Tinggi, Indonesia Universitas Andalas, Padang, Indonesia	2005-2006
34.	Screening for bioactive compounds from bacteria isolated from water and soil samples from Antarctica	Malaysian-Antarctica Research Programme, Academy of Sciences Malaysia, Malaysia	2005-2010
35.	Monitoring of <i>Campylobacter jejuni</i> in poultry product	Ministry of Health Malaysia	2005-2006
36.	Prevalence of <i>Campylobacter jejuni</i> and <i>Campylobacter</i> spp. in raw vegetables commonly consumed as ULAM	Ministry of Health Malaysia	2006-2007
37.	Study on the occurrence of <i>Bacillus cereus</i> and other <i>Bacillus</i> spp. in cereals in the Malaysian market	Ministry of Health Malaysia	2006-2007
38.	Method development for the molecular diagnostic of Hepatitis A virus in shellfish	E-Science	2006-2008

39.	Predictive microbiology: Modelling bacterial growth of <i>Salmonella</i> Typhi as a function of water activity, pH and temperature in rojak gravy, stay gravy and coconut milk (santan).	E-Science	2006-2008
40.	Development of a Molecularly Imprinted Polymers for Detection and Extraction of Malachite Green in Seafood	Fundamental Research Grant Scheme	2006-2008
41.	Microbial Fuel Cell: Novel Biotechnology for Green Energy Generation	Research University Grant Scheme (RUGS)	2007 - 2008
42.	Monitoring of <i>Listeria monocytogenes</i> and <i>Listeria</i> spp. in cheese products obtained from entry-points and in the retail markets	Ministry of Health Malaysia	2007-2008
43.	Detection and quantification of <i>Campylobacter</i> spp. in vegetables	Ministry of Health Malaysia	2007-2008
44.	Monitoring of <i>Escherichia coli</i> O157:H7 in retail beef	Ministry of Health Malaysia	2007-2008
45.	Development of advanced Nano silver particles (nano technology) for prolong storage and microbial risk reduction in fresh produce	FRGS	2010-2011

On Going Research

No.	Title	Source of grant/fund	Duration / progress
1	Risk Assessment of <i>Bacillus cereus</i> in miki under the "Projek Susu 1Malaysia (PS1M)"	Ministry of Health Malaysia	2012-2013
2	Climate change and marine-associated	University of Malaya High Impact Research -	2012-2014

	human bacterial pathogens	Ministry of Higher Education (HIR-MOHE) grant	
3.	Implementation of Food-Borne Pathogens in Production of Oral Vaccine and Delivery of Antibiotics Using Bacterial Ghost (BG) Platform System	ESCIENCE	2012-2014

30. Supervision of Students (Theses and Dissertation Directed)

Postgraduate students who have received/pursue their Doctor of Philosophy (Ph.D.) Degrees under my supervision with year of Award and title of the thesis

No.	Name	Award Year/Status	Title of thesis
1.	Muthafar Hussein Mohd Al-Haddawi	1998/graduated	Molecular Characterization and Pathogenicity of <i>Pasteurella multocida</i> serotypes A:3, D:1 and D:3 in Rabbits.
2.	Yetti Marlida	2001/graduated	Isolation, Screening, Purification and Characterization of Raw Starch Degrading Enzyme From Endophytic Fungi and its Application for Glucose Production
3.	Yuherman	2001/graduated	Molecular characterization of <i>Vibrio cholerae</i> , <i>Vibrio parahaemolyticus</i> and <i>Vibrio vulnificus</i> isolated from marine sources
4.	Omer Hassan Mohamad Hassan Arabi	2001/graduated	Molecular characterization of coagulase-positive Staphylococci isolated from dogs and cats
5.	Nimita Fifidara	2001/graduated	Prevalence and molecular characterization of vancomycin resistant <i>Enterococcus</i> spp. From beef
6.	Sahilah Abdul Mutalib	2002/graduated	Molecular typing of <i>Salmonella</i> spp. Isolated from broiler chicken at retail outlets, processing plants and farms in Peninsular Malaysia
7.	Zunita Zakaria	2002/graduated	Cloning and sequencing of the <i>fimA</i> gene and development of a serogroup specific vaccine for footrot disease caused by <i>Dichelobacter nodosus</i>
8.	Nasreldin Elhadi Hussein	2002/graduated	Molecular Characterization of <i>Vibrio cholerae</i> O1 and non-O1 and other <i>Vibrio</i> spp. From seafoods and clinical sources

9.	Endang Purwati	2003/graduated	Prevalence and molecular characterization of <i>Listeria</i> spp. Isolated from food sources
10.	Samuel Lihan	2008/graduated	Molecular characterization and development of a species specific oligonucleotide diagnostic DNA probe for <i>Listeria monocytogenes</i> .
11.	Ahmad Zainuri Mohd Dzomir	2005/graduated	Isolation, identification and characterization of <i>Yersinia enterocolitica</i> and its related species from mest and meat product.
12.	Noorzaleha Awang Salleh	2003/graduated	Prevalence, molecular characterization and validation of methods for the isolation of <i>Salmonella</i> spp. From raw vegetables and poultry sources
13.	Ooi Wai Ling	2003/ graduated	Molecular characterization of <i>Enterococcus</i> species isolated from raw vegetables, beef, pork, poultry and clinical sources
14.	Yap Beow Chin	2004/graduated	Functional characterization of <i>YIRO10W</i> (DSN1) and <i>YOR228C</i> genes in <i>Saccharomyces cerevisiae</i>
15.	Laurence John Williams	2004/graduated	<i>Staphylococcus aureus</i> colonization of the nose, skin and ear of athletes during training.
16.	Cheah Yoke Kqueen	2006/graduated	Development of a PCR-based detection kit for the detection of genetically modified organisms (GMO's).
17.	Vasanth Kumari Neela	2004/Graduated	Development of diagnostic DNA probe for the detection of <i>Vibrio cholerae</i> and <i>Staphylococcus aureus</i>
18.	Md Sabri Mohd Yusoff	2006/graduated	Identification, Cloning, sequencing, expression and protective capacity of the gene encoding 30-kilodalton outer membrane protein of <i>Mannheimia haemolytica</i> .
19.	Adeline Ting Su Yien	2005/Graduated	Improving vigour and tolerance to fusarium wilt by using endophytic microorganisms in banana
20.	Lesley Maurice	2006/graduated	Risk assessment of <i>Vibrio parahaemolyticus</i> in cockles.
21.	Daniel Mensah Anang	2006/graduated	Enhancing the shelf life and safety of dressed chicken using mixtures of organic acids and novel preservative
22.	Marlina	2007/graduated	Prevalence and Molecular Characterization of <i>Vibrio cholerae</i> from Shellfish from Sumatera, Indonesia.
23.	Hoseinali Sasan	2007/graduated	Molecular and genetic studies of major serine protease gene from <i>Aeromonas hydrophila</i>
24.	Reza Khakvar	2010/Graduated	Molecular characterization of <i>Ralstonia solanacearum</i> isolates in West Malaysia
25.	Chai Lay Ching	2008/graduated	Isolation and characterization <i>Campylobacter jejuni</i> from vegetables (ULAM)
26.	Yousr Abdulhadi Noaman	2007/graduated	Prevalence and molecular characterization of <i>Aeromonas</i> species isolated from different sources and locations in Malaysia
27.	Tunung Robin	2012/Graduated	Survival of <i>Salmonella</i> Typhimurium in rojak and satay gravy
28.	Abdulkadir Magaji Magashi	2012/Graduated	Molecular characterization of methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) isolated from chickens, horses and cattle.
29.	Maryam Jalili	2012/Graduated	To evaluate interaction between mold growth, aflatoxin and ochratoxin production in black

30.	John Tang	2011/Graduated	pepper and reduction by gamma irradiation
31.	Lee Hai Yen	2012/Graduated	Thermophilic <i>Campylobacter</i> spp. in chicken and study of its viable but nonculturable state
32.	Tuan Zainazor Tuan Chilek	2012/Graduated	Risk assessment of <i>Listeria monocytogenes</i> in cheese
33.	Noorlis Ahmad	2012/Graduated	Exposure assessment of norovirus in fresh produce
34.	Elexson Nillian	Ongoing	Quantification of <i>Vibrio</i> spp. in selected fresh water fish
35.	Saleh Mutahar Yahya Al-Othruhi	2012/Ongoing	Characterization of <i>Vibrio parahaemolyticus</i> isolated from vegetables
36.	Elham Taghavi	2012/Graduated	Prevalence and characteristics of Shigatoxin-producing <i>Escherichia coli</i> and <i>Listeria monocytogenes</i> strains isolated from imported and local minced meat marketing in Malaysia
37.	Ubong	2012/Ongoing	Influence of ptime nano-emulsion composition and processing condition of antimicrobial activity of nano-dispersed monoacylglycerol (Mag) and Oleoresin
			Risk Assessment of <i>Bacillus cereus</i> in milk

Postgraduate students who have received/pursue their Master of Science (MSc.) Degrees under my supervision with year of Award and title of the thesis

No.	Name	Award year/status	Title of Thesis
1.	Sahilah Abdul Mutalib	1997/graduated	Plasmid profiling and transfer of antibiotic resistances among <i>Escherichia coli</i> O157:H7 and non-O157 strains
2.	Loke Chui Fong	1998/graduated	Molecular characterization of <i>Salmonella enteritidis</i> isolates by pulsed field gel electrophoresis and plasmid profiling.
3.	Jamal Khair Hashim	1998/graduated	Prevalence, isolation techniques, antibiotic resistance pattern and plasmid profile of <i>Salmonella</i> in broiler chicken during production, processing and retail outlets.
4.	Maimunah Mustakim	1998/graduated	Characterization of <i>Salmonella enteritidis</i> isolates from humans, animals and environmental sources.
5.	Zunita Zakaria	1998/graduated	Isolation and characterization of <i>Dichelobacter nodosus</i> isolated from footrot infected sheep in

6.	Ahmad Zainuri Mohd Dzomir	1998/graduated	Malaysia. Molecular characterization of <i>Escherichia coli</i> serogroup O157:H7.
7.	Nasreldin Elhadi Hussein	1998/graduated	Isolation and molecular characterization of <i>Vibrio vulnificus</i> and <i>Vibrio parahaemolyticus</i> from cockles (<i>Anadara granosa</i>) in Malaysia
8.	Samuel Lihan	1998/graduated	Molecular characterization of <i>Escherichia coli</i> isolated from litters of broiler and village chicken and raw milk.
9.	Rozila Alias	1998/graduated	Molecular characterization of <i>Escherichia coli</i> O157:H7.
10.	Mohd Kamil Rejab	1999/graduated	Molecular characterization of <i>Aeromonas</i> spp. Isolated from different food sources.
11.	Ooi Wai Ling	1999/graduated	Molecular characterization of <i>Escherichia coli</i> O157:H7 isolated from imported beef.
12.	Haryanti bt Toosa	2000/graduated	Isolation and molecular characterization of <i>Enterococcus</i> spp. Isolated from poultry and clinical sources.
13.	Tg Ahbrizal Farizal bt Tg Ahmad	2001/graduated	Isolation and molecular characterization of <i>Vibrio vulnificus</i> from shrimps.
14.	Noorlis bt Ahmad	2001/graduated	Isolation and molecular characterization of <i>Aeromonas</i> spp. From seafoods.
15.	Cheah Yoke Kqueen	2001/graduated	Isolation and screening of endophytic bacteria and fungi from medicinal plants for bioactive compounds.
16.	Khaw Aik Kia	2001/graduated	Development of a diagnostic oligonucleotide DNA probe for <i>Vibrio cholerae</i> O139 Bengal
17.	Woo Kwan Kit	2001/graduated	Purification and characterization of endopeptidase from <i>Lactococcus lactis</i> subsp. <i>Lactis</i> .
18.	Zuraini Mat Issa	2002/graduated	Molecular characterization of Lactic Acid Bacteria isolated from fermented foods.
19.	Miki Vincent	2002/graduated	Molecular characterization of <i>Vibrio cholerae</i> O1 from outbreak cases in Miri, Sarawak.
20.	Lesley Maurice	2002/graduated	Isolation, identification and molecular characterization of <i>Listeria</i> species isolated from poultry.
21.	Lee Yock Ann	2002/graduated	Purification and characterization of a bacteriocin isolated from <i>Lactobacillus plantarum</i> .
22.	Mohd Nizam Lani	2002/graduated	Survival studies of <i>Listeria monocytogenes</i> under stress of pH and temperature.
23.	Yoursr Abdulhadi Noaman	2003/graduated	Isolation and molecular characterization of <i>Listeria species</i> isolated from shrimps.
24.	Jurin Wolmon Gunsalam	2004/graduated	Characterization of <i>Salmonella enterica</i> Sero var Enteritidis isolated from patients in Miri Hospital.
25.	Irene Lah	2004/graduated	Characterization of EPEC strains isolated from patients in Miri Hospital.
26.	Sushil Kaur a/p N. Gurnam Singh	2004/graduated	Development of an oligonucleotide DNA diagnostic probe for <i>Escherichia coli</i> O157:H7.
27.	Gwendolyne Tanil Bulan	2004/graduated	Characterization of <i>Vibrio parahaemolyticus</i> isolated from water samples.
28.	Jeffrey Lim Heng Seng	2006/Graduated	Screening for bioactive compounds from actinomycetes and endophytic fungi

29.	Phang Chiun Yee	2008/graduated	Molecular cloning of a phytase gene from a new phytase-producing bacterium.
30.	Lim Sor Sing	2005/Graduated	Determination of the seafood samples identities by using polymerase chain reaction.
31.	Noor Rasyila Mohamed Noor	2007/graduated	Analysis of <i>Vibrio alginolyticus</i> using antibiotic susceptibility test, plasmid profiling and randomly amplified polymorphic DNA (RAPD-PCR).
32.	Tuan Zainazor bin Tuan Chilek	2006/Graduated	Risk Assessment of <i>Vibrio parahaemolyticus</i> in Tiger Prawn in a government farm
33.	Tosiah binti Abdullah	2006/Graduated	Detection of GMO in foods in Malaysia
34.	Patrick Guda ak Benjamin	2006/Graduated	Prevalence of <i>Vibrio cholerae</i> in Sarawak, East Malaysia
35.	Tang Sui Yan	2007/graduated	Screening of <i>Actinomycetes</i> for bioactive substance.
36.	Chandrika a/p Murugaiah	2006/Graduated	Identification of meats and fish species in processed food and raw sample using PCR-AFLP
37.	Sara Abdalla Ahmed	2004/Graduated	Isolation and molecular characterization of <i>Escherichia coli</i> O157 from beef and lamb in Malaysia and United Arab Emirates.
38.	Aida Azrina Azmi	2007/graduated	Detection of pork and lard in food samples using molecular marker.
39.	Zulkifli Yaakub	2006/Graduated	Genotypic and phenotypic characterization of <i>Vibrio parahaemolyticus</i> from cockles in Padang, Indonesia.
40.	Nguyen Chau Thanh Tung	2004/Graduated	Detection of Genetically modified food by using polymerase chain reaction (PCR).
41.	Azura	2008/graduated	Characterization of lipase degrading bacteria
42.	Rani	2006/graduated	Characterization of <i>Klebsiella pneumonia</i> and <i>Enterobacter cloacae</i> from street foods
43.	Hooi Wei Yeng	2009/Graduated	Construction of a new wide host range cloning and expression vector based on a putative Lactococcal plasmid isolated locally
44.	Yong Sock Hwa	2007/Graduated	Genetic analysis of banana (<i>Musa</i> spp.) using representative difference analysis (RDA)
45.	Tunung Robin	2007/graduated	Molecular characterization of <i>Salmonella</i> Typhi and <i>Salmonella</i> Typhimurium isolated from street foods and clinical sources
47.	Belinda Edwin	2007/graduated	Characterization of <i>Vibrio alginolyticus</i> from cockles
48.	Noor Azrin Abdul Rahman	2011/Graduated	Characterization and transfer of chloramphenicol (CHL) resistant gene in bacteria isolated from aquaculture ponds
49.	Elaine Remi Douglas Telajan	2009/Graduated	Isolation and characterization of microbes involved in the composting of palm oil mill effluent and empty fruit bunch. (in collaboration with Universiti Malaysia Sabah)
50.	Sharon Lau	2009/Graduated	Preparation of inocula for composting of EFB (in collaboration with Universiti Malaysia Sabah)
51.	Usha Menon	2010/Graduated	Isolation and characterization of <i>Campylobacter jejuni</i> from retail poultry
52.	Jasbeer Kaur A/P Kesar Singh	2011/Graduated	Used of Real Time PCR for GMO Detection

53.	Abbie Yong Han Tek	2009/Graduated	Establishment of an efficient one step real time RT-PCR method utilizing Sybr Green for detection of Hepatitis A virus in shellfish
54.	Loke Chui Mei	2010/Graduated	Molecularly Imprinted Polymer for the detection of malachite green in foods
55.	Lee Hai Yen	2009/Graduated	Prevalence and characterization of <i>Bacillus</i> spp. in commercial cereal products using polymerase chain reaction techniques
56.	Lee Learn Han	2008/graduated	Molecular profiling of <i>Salmonella Enterica</i> subsp. <i>Enterica</i> isolated from indigenous vegetables and poultry
57.	Mohamed Raftari	2009/Graduated	Effect of roadgrade organic acids on inoculated <i>Staphyococcus aureus</i> , <i>Escherichia coli</i> , <i>Samonella Typhimurium</i> , <i>Listeria monocytogenes</i> and <i>Pseudomonas</i> in sheep/goat meat stored at refrigeration temperature
58.	Khoo Chai Hoon	2011/Graduated	Genetic manipulation of <i>Salmonella</i> pathogenicity island in <i>Salmonella enterica</i> by using targeted group II intron for the preparation of stable vector
59.	Khoo Siew Ping	2011/Graduated	Development of nanoparticle-based DNA biosensor for the detection of genetically modified organism (GMO) targeting insect resistance and herbicide resistance gene simultaneously
60.	Sim Jiun Horng	2011/Graduated	Characterization of potential endophytic fungi with bioactive compounds isolated from local fruits
61.	Tan Yee Fen	2008/Graduated	Prevalence and molecular characterization of <i>Campylobacter</i> spp. From retailed sushi in selected supermarkets in Kuala Lumpur, Malaysia
62.	Vengadesh a/I Letchumanan	2008/ Ongoing	Molecular characterization and enumeration of <i>Vibrio cholera</i> and <i>Vibrio parahaemolyticus</i> in seafood samples and environmental samples
63	Mohd Zarrul Nizam Zaaba	2007/Ongoing	Rapid detection and quantification of MRSA in major food animals and food samples
64	Wan Norhasima Wan Marizam	2008?Ongoing	Production of polyclonal antibody for rapid determination of fumonisin B1 in rice by ELISA method
65	Suzita Ramli	2012/Graduated	Survival of <i>Vibrio cholera</i> O1 and non-O1 in seafood
66	Elexson Nillian	2012/Graduated	<i>Salmonella</i> spp. in fruits
67.	Ubong Anyi	2012/Graduated	<i>Vibrio</i> spp. in cordial drinks
68.	Wong Woan Chwen	2011/Graduated	<i>Listeria monocytogenes</i> in burger patties
69.	Pui Chai Fung	2011/Graduated	<i>Salmonella</i> Typhi in cut fruits
70.	Soopna Puspanadan	2012/Graduated	<i>Klebsiella pneumonia</i> in raw vegetables
71.	Loo Yuet Ying	2013/Graduated	<i>E. coli</i> O157:H7 in raw vegetables
72.	Goh Sur Huat	2013/Graduated	<i>Listeria monocytogenes</i> in poultry
73.	Raymond Kuan Chee Hao	2013/Graduated	<i>Listeria monocytogenes</i> in poultry and beef

74.	Mohd Afendy Abdul Talib	Ongoing	Development of detection kit for <i>Salmonella</i>
75.	Iman Abdul Halim	Ongoing	Production of carotenoid in <i>Lactococcus lactis</i> from metabolite of <i>Daucus carota</i>
76	Siti Shahrul Nazfah Abdul Razak	Ongoing	Study on antimicrobial activity of Malaysian herbs and spices against foodborne pathogen and food spoilage
77	Chang Wei San	2013/Graduated	<i>E. coli</i> in organic vegetables
78	Lye Ying Ling	2013/Graduated	<i>E. coli</i> in raw milk and their antibiotic resistances
79	Marina Abdul Rahman	2012/Graduated	Isolation and detection of <i>Listeria monocytogenes</i> in food from animal origin from local food processing plant in Malaysia
80	Nor Hidayah Mhd Sahroni	2012/Graduated	Quantitative detection and molecular characterization of Norovirus in Onion from local market in Malaysia

Undergraduate students who have conducted their Bachelor in Science (BSc.) research project under my supervision with year of Award and title of the thesis

No.	Name	Award year/status	Title of Thesis
1.	Rozila Alias	1997/graduated	Antimicrobial resistance patterns and plasmid characterization of <i>Escherichia coli</i> isolates.
2.	Suhaily Kasbolah	1998/graduated	Plasmid profile and antibiotic susceptibility of <i>Salmonella blockley</i> isolated from poultry.
3.	Syamir Aziz	1998/graduated	Plasmid profile and antibiotic sensitivity of <i>Escherichia coli</i> isolated from imported frozen beef.
4.	Rosma Masoki	1998/graduated	Characterization of <i>Salmonella enteritidis</i> by plasmid analysis and antimicrobial resistant.
5.	Razali Hasmad	1998/graduated	Plasmid and antibiotic resistance of <i>Escherichia coli</i> isolated from beef.
6.	Tg Ahbrizal Farizal bt Tg Ahmad	1999/graduated	Plasmid profile and antibiotic resistance of <i>Aeromonas caviae</i> isolated from food and environmental sources.
7.	Siti Meriam bte Abd Wahab	1999/graduated	Characterization of <i>Vibrio parahaemolyticus</i> isolates using antibiotic resistance, plasmid profiles and random amplified polymorphic DNA (RAPD) analysis.
8.	Ng Yean Kai	1999/graduated	Randomly amplified polymorphic DNA, antibiotic resistance and plasmid profiles of <i>Escherichia coli</i> O157:H7.
9.	Noorlis Ahmad	1999/graduated	Isolation, identification, antibiotic susceptibility and plasmid profiles of <i>Aeromonas</i> species isolates from fish.
10.	Haryanti bt Toosa	1999/graduated	Characterization of <i>Vibrio vulnificus</i> strains by plasmid profiling, antibiotic resistance and randomly amplified polymorphic DNA (RAPD) analysis.

11.	Alawiah bt Arifin	1999/graduated	Antibiotic resistance, plasmid profile and random amplified polymorphic DNA (RAPD) analysis of <i>Escherichia coli</i> isolates.
12.	Jaliyah Abu Bakar	1999/graduated	Antibiotic and plasmid profiles among <i>Aeromonas hydrophila</i> isolated from food and environmental sources.
13.	Ho Yun Kit	1999/graduated	Molecular characterization and antibiotic susceptibility test of clinical and environmental <i>Vibrio cholerae</i> .
14.	Rosni Awang	1999/graduated	Plasmid and antibiotic profiling of <i>Vibrio vulnificus</i> isolated from shrimps.
15.	Suriani Senik	1999/graduated	Antibiotic resistance and plasmid profiling of <i>Vibrio parahaemolyticus</i> .
16.	Wong Foo Hin	2000/graduated	Molecular characterization of <i>Burkholderia pseudomallei</i> using antibiotic sensitivity test, plasmid profiling and RAPD-PCR analysis.
17.	Lo Kiat Siong	2000/graduated	The characterization of <i>Vibrio cholerae</i> O139 using antibiotic sensitivity test, plasmid profile and randomly amplified polymorphism DNA.
18.	Tan Cheng Siang	2000/graduated	Molecular chracterization of plasmid DNA from vancomycin resistant enterococci (VRE) and conjugation test <i>in vitro</i> to screen for possible transfer of the plasmid from VRE to other selected Gram+ve and Gram-ve.
19.	Muna bte Mohamed	2000/graduated	Antibiotic resistance, plasmid isolation and conjugation studies in <i>Salmonella weltevreden</i> .
20.	Sumaiyah Abd. Rahman	2000/graduated	Molecular characterization of <i>Salmonella muenchen</i> isolated from poultry.
21.	Rohana binti Mohd Akib	2000/graduated	Isolation and molecular characterization of <i>Vibrio metschnikovii</i> strains from seafoods utilizing plasmid profiling and antibiotic resistant analysis.
22.	Mohd Fadzli bin Md Nor	2000/graduated	Characterization of <i>Salmonella enteritidis</i> isolated from poultry by plasmid profiling and antibiotic resistance analysis.
23.	Nadia Alleanti bt Mohd Baharuddin	2000/graduated	Molecular characterization of <i>Aeromonas sobria</i> by using antibiotic susceptibility and plasmid profiling.
24.	Raja Ezura Raja Maimunah	2000/graduated	Characterization of <i>Vibrio cholerae</i> O1 isolates by plasmid profiling, antibiotic resistance and randomly amplified polymorphic DNA (RAPD).
25.	Sushil Kaur a/p N. Gurnam Singh	2000/graduated	Antibiotic resistance, plasmid profile and random amplified polymorphic DNA (RAPD) analysis of <i>Salmonella kentucky</i> isolates.
26.	Chamin ak Assan	2000/graduated	Molecular chracterization of <i>Escherichia coli</i> isolated from imported and local beef.
27.	Hasmiza Ahmad	2000/graduated	Characterization of <i>Eschrichia coli</i> isolated from vegetable, beef and village chicken utilizing antibiotic susceptibility and plasmid profiling technique.
28.	Mohd Nazib Shariff	2000/graduated	Profil plasmid dan kerintangan antibiotik pencilan bacteria <i>S. muenchen</i> daripada sumber ayam ternakan.

29.	Safrina Paiman	2000/graduated	Characterization of <i>Vibrio cholerae</i> non-O1 isolated from shrimp by plasmid profiling and antibiotic resistance analysis.
30.	Yap Kong Yew	2001/graduated	Characterization of <i>Vibrio cholerae</i> O1 strains by antibiotic resistance, plasmid profiling and randomly amplified polymorphic DNA (RAPD) analysis.
31.	Noraidah Md Nor	2001/graduated	Characterization of <i>Vibrio damsela</i> isolated from shrimps.
32.	Suriati Abdul Razak	2001/graduated	Molecular characterization of <i>Enterococcus faecalis</i> isolated from clinical sources by using plasmid profiling and RAPD analysis.
33.	Ang Kong Nian	2001/graduated	Molecular characterization of <i>Salmonella enteritidis</i> isolated from poultry and human sources by RAPD-PCR, BOX-PCR and plasmid profiles.
34.	Lim Seong Soo	2001/graduated	Isolation, identification and molecular characterization of <i>Listeria monocytogenes</i> and <i>Listeria</i> species from chicken meats and beefs.
35.	Priyan a/I Rathiramanan	2001/graduated	Molecular chracterization of <i>Vibrio cholerae</i> O1 and non-O1 from shrimp isolated from Sarawak.
36.	Zaiton Abu Bakar	2001/graduated	Molecular characterization of <i>Listeria monocytogenes</i> isolated from beef and chicken.
37.	Samsul Rizan Samsury	2001/graduated	Identification and characterization of <i>Vibrio parahaemolyticus</i> by using plasmid profiles and antibiotic susceptibility.
38.	Azahuzaimi Abd Aziz	2001/graduated	Molecular characterization of <i>Escherichia coli</i> based on antibiotic susceptibility test and plasmid profiling.
39.	Nazri Nordin	2001/graduated	Characterization of <i>Escherichia coli</i> from clinical sources for their antibiotic resistance, plasmid profiles and by RAPD-PCR assay.
40.	Ainur Azreen Ishak	2001/graduated	Isolation, identification and characterization of <i>Listeria innocua</i> isolated from poultry meats.
41.	Azah Fauziah Ariff	2001/graduated	Molecular characterization of enteropathogenic <i>Escherichia coli</i> isolated from clinical sources (children).
42.	Maziana Mazlan	2001/graduated	Isolation, identification and characterization of <i>Listeria monocytogenes</i> using plasmid profiles and antibiotic resistance.
43.	Asmani Zahili Abdul Manaf	2001/graduated	Genetic diversity of <i>Shigella flexneri</i> as detected by plasmid profiling and random amplification of polymorphic DNA analysis.
44.	Mohd Nasir Sulaiman	2002/graduated	Characterization of <i>Salmonella</i> serotypes by antibiotic resistance and plasmid profiling
45.	Wan Keng Fei	2002/graduated	Molecular characterization of EPEC strains isolated from patients at Miri Hospital, Sarawak (Malaysia).
46.	Gwendelynne Tanil Bulan	2002/graduated	Molecular characterization of <i>Listeria</i> spp. isolated from poultry by BOX-PCR and plasmid profiling.
47.	Jeffrey Lim	2002/graduated	Development of an oligonucleotide DNA probe for the detection of <i>Escherichia coli</i> O157:H7.

48.	Avinesh Devadas	2003/graduated	Characterization of <i>Vibrio alginolyticus</i> by plasmid profiling, antibiotic resistance and ERIC fingerprinting.
49.	Chua Sii Chin	2003/graduated	Plasmid, antibiotic resistance and ERIC fingerprinting of <i>Pseudomonas solanacea</i> .
50.	Tang Sui Yan	2003/graduated	Isolation and antimicrobial testing of <i>Actinomycetes</i> spp. from soil sources.
51.	Afifah Abdul Rahman	2003/graduated	Characterization of <i>Salmonella enterica</i> serovar Agona by plasmid profiling, antibiotic resistance and ERIC fingerprinting.
52.	Jacintha Sugnaseelan	2003/graduated	Characterization of EPEC strains by plasmid profiling and antibiotic resistance.
53.	Tunung Robin	2003/ graduated	Detection of GMO by Real Time PCR.
54.	Usha Menon Ragavan	2003/ graduated	Differentiation of fish species by AFLP.
55.	NordianaAhmad	2003/ graduated	Molecular characterization of <i>Staphylococcus aureus</i> isolatef from clinical sources.
56.	Teh Hui Leng	2003/ graduated	Determination of the meat samples identities by using PCR-RFLP analysis
57.	Ng Chai Hoo	2003/ graduated	Analysis of <i>Vibrio parahaemolyticus</i> isolated from cockles (<i>Carbiculla muktiana</i>) in West Sumatera, Indonesia by antibiotic susceptibility test, plasmid profiling and RAPD
58.	Teh Kah Siong	2004/ graduated	Identification of prawn species by using PCR-RFLP analysis techniques
59.	Teo Chin Jit	2004/ graduated	Characterization of <i>Vibrio alginolyticus</i> isolated from <i>Carbiculla muktiana</i> from West Sumatera, Indonesia using various molecular techniques.
60.	Ainul Masni Othman	2004/ graduated	Phenotypic and genotypic characterisation of <i>Vibrio cholerae</i> isolated from clinical and environment.
61.	Wan Shafaizura Wan Hanafi	2004/ graduated	Characterisation of <i>Erwinia chrysanthemi</i> isolated from pineapple (<i>Josapine</i> spp.) in Malaysia
62.	Mohamed Zulperi	2003/ graduated	Characterization of <i>V. alginolytius</i> isolated from cockles
63.	Chan Lay Ching	2005/ graduated	Microsatellite as DNA level genetic markers in Tilapia (<i>Oreochromis</i> spp.)
64.	Chan Toh Theng	2005/ graduated	Polymerase chain reaction (PCR)-based detection of genetically modified soybean
65.	Lok Chui Mei	2005/ graduated	Detection of Genetically modified (GM) maize using PCR-based method
66.	Lee Han Chung	2005/ graduated	Species differentiation of fish samples by using PCR-RFLP
67.	Ong Sang Bing	2005/ graduated	Sensitivity of polymerase chain reaction-restriction fragment length polymorphism (PCR-RFLP) in species differentiation of meat from animal origin
68.	Yeo Shel Hwa	2005/ graduated	Molecular characterization of <i>Vibrio parahaemolyticus</i> isolated from Kuala Selangor
69.	Tieu Pei Fen	2005/ graduated	Characterization of <i>Vibrio parahaemolyticus</i> from tiger prawn in Perak.
70.	Azizah Ghazali	2006/graduated	Prevalence of <i>Vibrio parahaemolyticus</i> in cockles (<i>Anadara granosa</i>) from local market
71.	The Kheng Pyn	2006/graduated	Plasmid profiling and antibiotic resistance of <i>Salmonella</i> Typhi isolated from clinical sources.
72.	Lim Shin Lan	2006/graduated	Plasmid profiling and antibiotic resistance of <i>Enterobacter cloacae</i> isolated from street food
73.	Bong Siew Fui	2006/graduated	Plasmid profiling and antibiotic resistance of <i>Klebsiella pneumonia</i> isolated from street

			food
74.	Sharifah Zuhaira Syed Ahmad Zaidi	2006/graduated	Prevalence and characterization of <i>Vibrio parahaemolyticus</i> in cockles, squids and shrimps retailed in the local markets
75	Siow Lee Keng	2006/ graduated	Isolation and quantification of <i>Escherichia coli</i> O157:H7 in the beef using Most Probable Number-Polymerase Chain Reaction (MPN-PCR)
76	Lai Kai Ling	2006/ graduated	The acid tolerance response induces cross protection to salt stress in <i>Salmonella</i> Typhimurium.
77	Koh Suk Fei	2006/ graduated	Survival of <i>Salmonella</i> Typhimurium in santan (coconut milk)
78	Yeo Hock Ling	2006/ graduated	Acid adaptation of <i>Vibrio parahaemolyticus</i> and subsequent impact on stress tolerance
79	Tang Peck Ling	2006/ graduated	Molecular characterization of <i>Vibrio cholerae</i> O1 outbreak strains
80	Tiong Pooi Mun	2006/ graduated	MPN-PCR of <i>Campylobacter</i> spp. or <i>Campylobacter jejuni</i> in Sri Serdang wet market waste water
81	Ang Siew Teng	2006/ graduated	Influence of acid tolerance responses on survival, growth and thermal cross-protection of <i>Escherichia coli</i> O157:H7 in acidified media and fruit juices
82	Wong Chai Yi	2006/ graduated	MPN-PCR of <i>Campylobacter</i> spp. and <i>Campylobacter jejuni</i> in kitchen simulation
83	Ng Siau Ai	2006/ graduated	MPN-PCR of <i>Campylobacter jejuni</i> in lake water
84	Syahizatul Akhma Mohammad Ayob	2006/ graduated	Detection and risk assessment of <i>Escherichia coli</i> O157:H7 in local and imported meat
85	Wong Woan Chwen	2008/ graduated	Detection and enumeration of <i>Listeria monocytogenes</i> in raw vegetables
86	Lin Soon Seng	2008/ graduated	Determination and quantification of <i>Vibrio cholera</i> O1 in raw vegetables
87	Nurulnadiyah Muhammad	2008/ graduated	Application of SYBR Green real-time PCR assay for direct detection of <i>Salmonella</i> Typhi in coconut milk
88	Nor Azira Jaaffar	2008/ graduated	Detection and quantification of <i>Salmonella</i> species in raw vegetables
89.	Wong Woan Chwen	2008/ graduated	Detection and enumeration of <i>Listeria monocytogenes</i> in raw vegetables
90	Nurulnadiyah Muhamad	2009/Graduated	Application of syber green real-time PCR assay for direct detection of <i>Salmonella</i> Typhi in coconu milk
91.	Nor Azira Jaaffar	2009/Graduated	Detection and quantification of <i>Salmonella</i> species in raw vegetables
92.	Lim Boon Seng	2009/graduated	Determination and quantification of <i>Vibrio cholera</i> O1 in raw vegetables
90.	Lau Hooi Ping	2010/graduated	Sampling and monitoring in food safety management – microbiological criteria for <i>Listeria monocytogenes</i> from retailed sushi using MPN-PCR method
91	Tinakumari a/p Santhrakumar	2010/graduated	A study on antimicrobial resistance of foodborne pathogens towards nano colloidal silver
92	Nur Baiti binti Sofyuddin	2010/graduated	Survival of <i>Vibrio cholera</i> in selected rojak gravy at different temperature and pH

93	Bhuvaneswary a/p Gunasagaran	2010/graduated	Effect of pH and temperature on growth of <i>Salmonella</i> Typhi in rojak gravy from selected outlet
94	Ummu Hani Bt Nahar.	2010	Prevalence of <i>Salmonella</i> sp. in meat
95	Norshafawati bt rosli	2010	Cross contamination of <i>Vibrio cholerae</i> in domestic kitchen.
96	Syamil Bin A Samad	2010	Detection and deactivation of <i>Listeria monocytogenes</i> in burger patties.
97	Kuan Chee Hao	2010	Detection and enumeration of <i>Listeria monocytogenes</i> in anchovies.
98	Erica Diana Jeremiah.	2010	Enumeration of <i>Salmonella</i> Typhi and <i>Salmonella</i> Typhimurium in fruit juices
99	Yong Wen Zhi	2010	Performance characteristics and estimation of measurement uncertainty of three plating procedures for <i>Listeria monocytogenes</i> enumeration in chicken meat.
100	Ong Peai Mun	2011	Conjugal transfer of plasmid and antibiotic resistance of <i>Listeria monocytogenes</i>
101	New Chia Wern	2011	Risk factors associated with plasmid and antibiotic resistant in <i>Vibrio parahaemolyticus</i> isolated from fish and seafood
102	Yeoh Poh York-	2011	Plasmid isolation and antibiotic susceptibility pattern of <i>Klebsiella pnneumoniae</i> and <i>Vibrio parahaemolyticus</i> isolated from vegetable
103	Muhamadn Shamin bin Burahan,	2011	Efficacy of washing methods in decontamination of <i>Listeria monocytogenes</i> in chicken meat/ chicken offal
104	Afifah bt Alias	2011	Quantification and efficacy of antibacterial on reduction of <i>Listeria monocytogenes</i> in chicken meat
105	Norfatinfilzah bte Abdul Shukor	2011	Survival study of <i>E.coli</i> in hand wash and sanitizer
106	Siti Nur Rahmah binti Samihan	2011	Quantification and washing efficacy in reduction of <i>Salmonella</i> spp. in organic vegetables and fruits
107	Nur Izni binti Mohd Afandi	2011	Quantitative detection of <i>Klebsiella pneumonia</i> from beef
108	Fairuz Aqilah binti Mahmod	2011	Efficacy of cooking method in decontamination of <i>Listeria monocytogenes</i> in chicken meat

Final Year Research Projects/Thesis at Fakultas Matematika dan Ilmu Pengetahuan Alam, Jurusan Farmasi, Universitas Andalas, INDONESIA.

1	Renida Yanti	2001/graduated	Detection and identification of <i>Listeria monocytogenes</i> in meat (mutton) in Kota Padang, Sumatera
2	Sri Hendayani	2001/graduated	Detection and identification of <i>Listeria monocytogenes</i> in poultry meat in Kota Padang, Sumatera

3	Wendi	2001/graduated	Detection and identification of <i>Listeria monocytogenes</i> in beef in Kota Padang, Sumatera
4	Woro Supeni W.	2002/graduated	Plasmids and antimicrobial susceptibility of <i>Listeria monocytogenes</i>
5	Nur Haura Yati	2003/ graduated	Isolasi dan analisa profil plasmid <i>Vibrio cholerae</i> dari <i>Corbicula sumatrana</i> yang terdapat di Danau Singkarak serta uji resistensi antibiotiknya.
6	Retiarni Eldiana	2003/ graduated	Isolasi dan analisa profil plasmid <i>Vibrio cholerae</i> dari <i>Batissa violaceae</i> Lamarck (Ilokan) serta uji resistensi antibiotiknya.
7	Guswinda (1A1Qbo472-CSX-passport)	2004/ graduated	Incidences of <i>Vibrio</i> species in seafood from Sumatera, Indonesia
8	Yerlina (N037495 –passport)	2004/ graduated	Prevalence of <i>Vibrio</i> species in seafood from Sumatera, Indonesia
9	Erma Maradona (AG663783 – passport)	2004/ graduated	Susceptibility of <i>Vibrio</i> species to selected antimicrobial agents
10	Rini Fabrina (AJ-278222-passport)	2005/ graduated	Characterization of <i>Vibrio parahaemolyticus</i> from shrimps in Andalas
11	Dayu Letsanda (AJ-278223-passport)	2005/ graduated	Characterization of <i>Vibrio parahaemolyticus</i> from clinical sources in Andalas
12	Lisa Anamerta (BP-01131052)	2005/ graduated	Deteksi gen ctx dan uji serologi bakteri <i>Vibrio cholerae</i> isolat feses pasien diare di rumah sakit
13	Krisyanella	2005/ graduated	Identification and molecular characterization of <i>V. alginolyticus</i> using Biolog Test from processed bivalves (<i>Corbicula mokltiana</i>)
14	Ratna Sary Wibowo	2005/ graduated	Molecular characterization of <i>V. parahaemolyticus</i> isolated from seawater in Padang, West Sumatera.
15	Zulqifli (BP-01131065)	2005/ graduated	Deteksi gen virulens dan uji resistensi antibiotika dari bakteri <i>Vibrio parahaemolyticus</i> isolat feses pasien diare di rumah sakit

Final Year Research Projects students conducted under my supervision from The Royal Veterinary and Agricultural University, Denmark

1	Lene	Feb-May 2004	Risk assessment of <i>Vibrio parahaemolyticus</i> in Tiger prawn
2	Inge	Feb-May 2004	Risk assessment of <i>Vibrio parahaemolyticus</i> in Tiger prawn
3	Lise	Feb-May 2006	Molecular technique for the Quantification of <i>Vibrio parahaemolyticus</i> in cockles
4	Maria	Feb-May 2006	Nanotechnologies in palm oil research

31. Students attachments

1. Leslie RAPHANAUD, 2013. Three months industrial attachment in my laboratory to work on "Quantitative detection of *Vibrio parahaemolyticus* in seafood using the MPN-PCR method". From Ecole Supérieure d'Ingénieurs en Agroalimentaire de Bretagne atlantique (ESIAB), Université de Bretagne Occidentale, France.
2. Camille PHILIPPE, 2013. Three months industrial attachment in my laboratory to work on "Detection of *Escherichia coli* O157:H7 in raw beef and the study of its transfer from banana leaf". From Ecole Supérieure d'Ingénieurs en Agroalimentaire de Bretagne atlantique (ESIAB), Université de Bretagne Occidentale, France.

32. Academic Adviser to more than 50 undergraduate students of the Department of Food Science [Department of Biotechnology], Faculty of Food Science and Technology [Faculty of Food Science and Biotechnology], University Putra Malaysia.

33. External/Independent Examiner for Doctoral and Master Degrees Thesis.

Doctoral Thesis

1. G. Vivekanandhan. 2000. **Ph.D Thesis** on "Prevalence of *Aeromonas hydrophila* in seafoods". Bharathiar University, Coimbatore - 641046, Tamilnadu, **INDIA**.
2. Majid Eshagi. 2001. **Ph.D. Thesis** on Sequencing of EMM gene of Malaysian group A streptococci (GAS), and sequencing, cloning and expression of MGA regulon of strain ST4547. Faculty of Food Science and Biotechnology, University Putra Malaysia, **MALAYSIA**.
3. Loke Chui Fong. 2002. **Ph.D. Thesis** on "Development of DNA vaccine against Newcastle virus". Faculty of Food Science and Biotechnology, University Putra Malaysia, **MALAYSIA**.
4. Latifah Saiful Yazan. 2003. **Ph.D. Thesis** on "The antitumor properties of nordamnacanthol and damnacanthol, the anthraquinones from the roots of *Morinda elliptica*". Faculty of Food Science and Biotechnology, University Putra Malaysia, **MALAYSIA**.
5. Mohammad Nazmul Hasan. 2004. **Ph.D. Thesis** on "Molecular detection and characterization of the verotoxin gene in enteropathogenic *Escherichia coli* and non-O157 diarrheagenic *Escherichia coli*". Institute of Postgraduate Studies and Research, University Malaya, **MALAYSIA**.
6. Nadimpalli Ravi Sankara Varma. 2004. **Ph.D. Thesis** on Development of an anchoring system for protein display on the cell wall surface of *Lactococcus lactis*. Faculty of Food science and Biotechnology, University Putra Malaysia, **MALAYSIA**.
7. Wan Himratul Aznita binti Wan Harun. 2005. **Ph.D. Thesis** on "Pathogenic and Molecular Studies of Clinical and Recombinant Isolates of *Prevotella intermedia*". Institute of Postgraduate Studies and Research, University Malaya, **MALAYSIA**.
8. Che Radziah Che Mohd. Zain. 2005. **Ph.D. Thesis** on "Isolation and characterization of full-length knotted-gene from oil palm (*Elaeis guineensis*). Faculty of Biotechnology & Biomolecular Science, University Putra Malaysia, **MALAYSIA**.
9. Bah Piyen Tan. 2005. **Ph.D. Thesis** on "Kesan klorin dioksida terhadap *Salmonella* spp. dan *Vibrio parahaemolyticus* dalam udang harimau (*Penaeus monodon*) semasa pengeluaran udang sejuk beku di kilang". Faculty of Science and Technology, Universiti Kebangsaan Malaysia, **MALAYSIA**.
10. Ibrahim bin Abu Bakar. 2007. **Ph.D. Thesis** on "Penilaian Risiko Keselamatan Ikan Air Tawar Akuakultur Dari Ladang Ke Meja Makan. Faculty of Science and Technology, Universiti Kebangsaan Malaysia, **MALAYSIA**.
11. Kottiya Wattege Sujeewa. 2007. **Ph. D. Thesis** on Microbiological Risk assessment of *Vibrio parahaemolyticus* in shrimp. . Faculty of Science and Technology, Universiti Kebangsaan Malaysia, **MALAYSIA**.

12. King Jie Hung. 2008. **Ph.D. Thesis** on Diversity of bacteria associated with the gut of *Coptotermes curvignathus* (Isoptera: Rhinotermitidae). Faculty of Science and Technology, Universiti Kebangsaan Malaysia, **MALAYSIA**.
13. Barka Mohammed Kabier Barka. 2009. **Ph.D. Thesis** on Probiotic assessment of *Bifidobacterium pseudocatalanatum* G4 and modeling optimum symbiotic growth, Faculty of Food Science and Technology, Universiti Putra Malaysia, **MALAYSIA**.
14. Rajan sani. 2009. **Ph.D. Thesis** on Association of human papilloma virus (HPV) and p53 polymorphisms with oral squamous cell carcinomas and development of single-tube-seminested PCR assay for HPV detection. Universiti Kebangsaan Malaysia, **MALAYSIA**.
15. Wong Weng Ruh. 2009. **Ph.D. Thesis** on Kajian metagenomik bacteria yang berasosiasi dengan isolate Dinoflagelat bentuk marin, *Coolia monotis* dan *Ostreopsis ovate* dari perairan Malaysia. Universiti Kebangsaan Malaysia, **MALAYSIA**.
16. Tan Gim Cheong. 2010. **Ph.D. Thesis** on Understanding the molecular mechanism of enteropathogenesis of multifunctional autoprocessing repeat-in-toxin genes (MARTX) and cholera toxin (CT genes mutation of *Vibrio cholera* O139 serogroup towards cholera vaccine development. Universiti Sains Malaysia, **MALAYSIA**.
17. Hassanain I. Al-Talib. 2010. **Ph.D. Thesis** on Development of a thermostabilized multiplex PCR assay for the rapid detection of methicillin-resistant *Staphylococcus aureus*. Universiti Sains Malaysia, **MALAYSIA**.
18. Yehya Al-Talib. 2010. Ph.D. Thesis on Development of a thermostabilized multiplex PCR assay for the rapid detection of methicillin-resistant *Staphylococcus aureus*. Universiti Sains Malaysia, **MALAYSIA**.
19. Farhang Soleimany. 2011. Ph.D. Thesis on Development, Optimization and validation of LC/MS method for multimycotoxin detection in cereals. Universiti Putra Malaysia, **MALAYSIA**.
20. Tran Thanh. 2011. Ph.D. Thesis on Cloning and characterization of a highly expressed cDNA and functional analysis of its promoter from green microalgae *Ankistrodesmus convolutes*. Universiti Putra Malaysia, **MALAYSIA**.
21. Rand R. Hafidh. 2011. Ph.D. Thesis on Antimicrobial immunomodulatory and tumor cells selective cytotoxic activities of *Brassica oleracea* and *Vigna radiata*. Universiti Putra Malaysia, **MALAYSIA**.
22. Sri Harmina Pahm Hartantyo. 2012. Ph.D. Thesis on Risk Assessment of *Vibrio parahaemolyticus*. Universiti Kebangsaan Malaysia, **MALAYSIA**.
23. Chong Cheong Yew. 2012. Ph.D. Thesis on Biogenic amines, biochemical and microflora changes in Indian mackerel (*Rastrelliger kanagurta*) during different storage conditions. Universiti Putra Malaysia, **MALAYSIA**.
24. Mohsen Zargar. 2012. Ph.D. Thesis on Biological activity of different extracts of *Vitex negundo* L.. Universiti Putra Malaysia, **MALAYSIA**.
25. Radhiatul Mardiah Binti Hassan. 2012. PhD. Thesis on "Pemencilan, Pemastian dan Risiko *Staphylococcus aureus* dan Toksinnya Dalam Makanan Sedia DiMakan, Bahan Mentah dan Pengendali Makanan. Universiti Kebangsaan Malaysia, **MALAYSIA**.
26. Ja'afar Nuhu Ja'afar. 2013. Ph.D. Thesis on Molecular Epidemiology of *Salmonella Typhi* in Kelantan using randomly amplified polymorphic DNA (RAPD) and single nucleotide polymorphism methods. Universiti Sains Malaysia. **MALAYSIA**.
27. Mohamed Raftari (GS25742). 2013. Ph.D. Thesis on Development of a novel recombinant starter culture bacterium capable of milk coagulation. Universiti Sains Malaysia. **MALAYSIA**.
28. Sobhan Ghafouryan (GS32164). Ph.D. Thesis on The role of mazEF toxin antitoxin system in Gram positive and Gram negative multi-drug resistance bacteria. Universiti Sains Malaysia. **MALAYSIA**.

Master Thesis

1. Ahmad Faris Mohd Adnan. 2001. **MSc. Thesis** on "Isolation, screening and characterization of Lactic Acid Bacteria from local food sources". Institute of Postgraduate Studies and Research, University Malaya, **MALAYSIA**.
2. Ibrahim bin Abu Bakar. 2000. **MSc. Thesis** on "The Evaluation of Food Service Sanitation in Pahang Tourist Area". Faculty of Science and Technology, Universiti Kebangsaan Malaysia, **MALAYSIA**.
3. Vasanthakumari Neela. 2000. **MSc. Thesis** on "Molecular and immunological characteristics of *Vibrio cholerae* and *Vibrio alginolyticus*". Faculty of Biomedical Sciences, University Putra Malaysia, **MALAYSIA**.
4. Ong Ming Hooi. 2001. **MSc. Thesis** on "Bioconversion of sago effluent to organic acids by batch and continuous anaerobic treatment". Faculty of Food Science and Biotechnology, University Putra Malaysia, **MALAYSIA**.
5. Ernie Eileen Rizlan Ross. 2001. **MSc. Thesis** on "Isolation and characterization of a lactococcal plasmid and preliminary construction of a *Lactococcus-E. coli* shuttle vector". Faculty of Food Science and Biotechnology, University Putra Malaysia, **MALAYSIA**.
6. Zainal Baharum. 2002. **MSc. Thesis** on "Composting of selected organic sludges using rotary drum in comparison to Windrow system". Faculty of Food Science and Biotechnology, University Putra Malaysia, **MALAYSIA**.
7. Anis Shobirin Hussin. 2003. **MSc. Thesis** on "Inhibitory activities of *Bifidobacterium Pseudocalunatum* on *Salmonella enterica*". Faculty of Food Science and Biotechnology, University Putra Malaysia, **MALAYSIA**.
8. Nirmala Devi a/p Arumugam. 2003. **MSc. Thesis** on "Studies on the mosquito larvicidal toxin of the *Clostridium bifermentans* serovar *Malaysia* (cbm)". Faculty of Science, University of Malaya, **MALAYSIA**.
9. Uma Maheswari Balasubramaniam. 2003. **MSc. Thesis** on "Detection and molecular analysis of Shiga toxin producing *Escherichia coli* isolated from food and clinical sources". Faculty of Science, University of Malaya, **MALAYSIA**.
10. Chang Pheh Ping. 2003. **MSc. Thesis** on "Detection and molecular characterization of Shiga-like toxin producing *Escherichia coli* and *Escherichia coli* O157 isolated from raw beef marketed in East Malaysia. Universiti Malaysia Sarawak, **MALAYSIA**.
11. Susan Hoe Ling Ling. 2003. **MSc. Thesis** on "Development of a multiplex PCR in the rapid detection of virulence-associated genes in *Shigella* spp." Institute of Postgraduate Studies, University of Malaya, **MALAYSIA**.
12. Shamsilawani bt. Ahmad Bakeri. 2003. **MSc. Thesis** on "Molecular subtyping of *Salmonella Enteritidis*, *Salmonella Weltevreden*, *Salmonella Stanley* and *Salmonella typhimurium* in Malaysia". Institute of Postgraduate Studies, University of Malaya, **MALAYSIA**.
13. Teo Swee Sen. 2004. **MSc. Thesis** on "Functional genomic studies of *Gracilaria changii* (Gracilariales, Rhodophyta) – an expressed sequence Tag (EST) approach", Universiti Putra Malaysia, **MALAYSIA**.
14. Yap Keng Wai. 2004. **MSc. Thesis** on "Gut microbial profile and urinary mineral of inulin supplemented formula-fed infants". Faculty of Food Science and Biotechnology, Universiti Putra Malaysia, **MALAYSIA**.
15. Christina Vimala Supramaniam. 2005. **MSc. Thesis** on "Molecular Studies on Bacteriocin Gene From *Lactobacillus plantarum*". Faculty of Food Science and Biotechnology, Universiti Putra Malaysia, **MALAYSIA**.
16. Corbin Ryan Oneal. 2005. **MSc. Thesis** on Identification and molecular subtyping of *Vibrio parahaemolyticus* from clinical and environmental sources. Faculty of Science, University of Malaya, **MALAYSIA**.

17. Siti Zulaiha Hanapi. 2006. **MSc. Thesis** on. Faculty of Science, University of Malaya, **MALAYSIA**.
18. Henie Edward Francis Parillon. 2006. **MSc. Thesis** on The antimicrobial potential of *Psidium guajava* and *Piper betle* extracts on selected foodborne bacteria. Faculty of Food Science and Technology, Universiti Putra Malaysia, **MALAYSIA**.
19. Lai Lee San. 2006. **MSc. Thesis** on Phenotypic and genotypic characterization of *Vibrio cholerae* from seafood and environmental source in Sarawak. Faculty of Resource Science and Technology, Universiti Malaysia Sarawak, **MALAYSIA**.
20. Aneeza Zaiti Zainal. 2006. **MSc. Thesis** on Induction of acid tolerance in *Vibrio cholerae*: factors influencing and cross protection responses. Faculty of Applied Sciences, Universiti Teknologi MARA, **MALAYSIA**.
21. Shahram Shakiba Zadeh. 2006. **MSc. Thesis** on Blood cells histology of horseshoe crabs, *Carcino Scorpis Rotundicauda* and *Tachypleus gigas*, and screening for antibacterial tachycitin and tachyplesin compounds. Faculty of Agriculture, Universiti Putra Malaysia, **MALAYSIA**.
22. Akma Ngah Hamid. 2007. **MSc. Thesis** on Pengesanan *Escherichia coli* O157:H7 dan factor-faktor virulen dalam makanan berasaskan hasil haiwan. Faculty of Science and Technology, Universiti Kebangsaan **MALAYSIA**.
23. Ermina Sari. 2007. **MSc. Thesis** on Development of processing technique for production of chilli (*Capsicum annuum* Variety Kulai) puree. Faculty of Food Science and Technology, Universiti Putra Malaysia, **MALAYSIA**.
24. Mohamad Rahimi bin Hamid @ Abdul Hamid. 2007. **MSc. Thesis** on Kajian Kepadatan, Aktiviti Hemolisin dan Kerintangan Antibiotik *Aeromonas hydrophila* Yang Di Pencirkan Dari Air Laut, Sedimen Laut dan Batu Karang. Faculty of Science and Technology, Universiti Kebangsaan **MALAYSIA**.
25. Chelven Lim Ai Chen. **MSc. Thesis** on Development of polymerase chain reaction restriction fragment length polymorphism based techniques for meat identification. Biotechnology Research Institute, Universiti Malaysia Sabah, **MALAYSIA**.
26. Wan Adnawani bt Meor. **MSc. Thesis** on Isolation and comparative genotyping of *Listeria monocytogenes* in food and markets in Kuching and Samarahan district, Sarawak. Faculty of Resource Science and Technology, Universiti Malaysia Sarawak, **MALAYSIA**.
27. Abdah Karimah binti Che Md Nor. **MSc. Thesis** on Pembangunan PCR multiprimer dalam bentuk stabil haba bagi pengesanan dan pembezaan jangkitan mikrobakteria. Universiti Sains Malaysia, **MALAYSIA**.
28. Sangeetha Arullappan. **MSc. Thesis** on Evaluastion of cytotoxicity and antibacterial activity of crude extracts from *Hibiscus rosa sinensis*. Universiti Kebangsaan Malaysia, **MALAYSIA**.
29. Siti Suwaibah Abd Ghaffar. 2008. **MSc. Thesis** on Growth profile and composition of aerobic mesophilic bacteria in yellow alkaline noodles during storage. Faculty of Food Science and Technology, Universiti Putra Malaysia, **MALAYSIA**.
30. Farah Shamsuddin. 2009. **MSc. Thesis** on Serotype distributions and molecular characteristics of *Vibrio parahaemolyticus* isolates in Malaysia. International Medical University, **MALAYSIA**.
31. B. Vimala R. M. T. Balasubramaniam. 2009. **MSc. Thesis** on Isolation, detection and genomic differentiation of *Vibrio cholerae* and other *Vibrio* species from aquatic environment in Kelantan, Malaysia. University Malaya, **MALAYSIA**.
32. Farnaz Faridnia. 2009. **MSc. Thesis** on Effect of *Bifidobacterium pseudocatenulatum* G4 on binding and absorption of mutagenic/carcinogenic heterocyclic aromatic amines in an In Vitro system. Universiti Putra Malaysia, **MALAYSIA**.
33. Altamar Khadijah Ahmad. 2010. **MSc. Thesis** on Antibacterial property and toxicity study of medicinal *Tinospora crispa* L. University of Malaya, **MALAYSIA**.

34. Ang Chew Pei. 2010. MSc. Thesis on Genotypic and phenotypic differentiation of D-tartarate fermenting and non fermenting *Salmonella enteric serovar paratyphi B*. University of Malaya, MALAYSIA.
35. Abdrabuh Naji Hussein Shwter. 2010. MSc. Thesis on Screening, identification, subcloning and characterization of non-virulent gene from genomic library of *Mycobacterium tuberculosis* H37RV. University of Malaya, MALAYSIA.
36. Sivachandran Pariamannan. 2010. Thesis on Molecular identification and investigation of surface and gut microflora of local leech. AIMST, MALAYSIA.
37. Mehru Nisha Muhamad Haneef. 2010. MSc. Thesis on Mutation of *apv* gene of *Shigella flexneri* 2a: towards the development of an oral live attenuated *Shigella* vaccine candidate. University of Malaya, MALAYSIA.
38. Intisar Salim Abdullah Al-Gharibi. 2010. MSc. Thesis on Microbiological assessment of treated waste water and detection of antibiotic and chlorine resistance *E. coli* from sewage treatment plants in Oman. Universiti Teknologi MARA, MALAYSIA.
39. Zarizal Suhaili. 2010. MSc. Thesis on Detection and identification of methicillin-resistant *Staphylococcus aureus* (MRSA) by real-time polymerase chain reaction. Universiti Sultan Zainal Abidin, MALAYSIA.
40. Rafezah Razali. 2011. MSc. Thesis on Characterisation of low density lipoprotein receptor gene mutations in patients with familial hypercholesterolaemia. University of Malaya, MALAYSIA.
41. Kho Kai Ling. 2011. MSc. Thesis on Isolation, antimicrobial resistance and genotyping of *Escherichia coli* isolated from wildlife in Sarawak. Universiti Malaysia Sarawak, MALAYSIA.
42. Susan Praveena Thomas. 2011. MSc. Thesis on Development of a thermostabilized PCR for the detection of *Salmonella* Enteritidis (SE) and vancomycin resistant enterococci (VRE) in poultry and meat samples. AIMST University, MALAYSIA.
43. Nurmahani Mohd Maidin. 2011. Antibacterial property of extracts and chromatographic fractions of peel pulp and seed of *Hylocereus polyrhizus* and *H. Undatus*. Universiti Putra Malaysia, MALAYSIA.
44. Mahshid Ebrahimian. 2012. **MSc. Thesis** on Thermophysical, sensory and biochemical properties of red tilapia. Universiti Putra Malaysia, **MALAYSIA**.
45. Seyedeh Maryam Shariat. 2012. **MSc. Thesis** on Effect of modified atmosphere storage on the shelf life of patin (*Pangasus pangasius*) fillets. Universiti Putra Malaysia, **MALAYSIA**.
46. Somayeh Moradi Moghadam. 2012. MSc. Thesis on Influence of fermentation process on functional properties of kemunting cina plant extract. Universiti Putra Malaysia, **MALAYSIA**.
47. Mahsid Ebrahman. 2012. MSc. Thesis on Thermophysical sensory and biochemical properties of red tilapia. Universiti Putra Malaysia, **MALAYSIA**.
48. Safiyyah Shahimi. 2012. MSc. Thesis on Pengenalpastian ikan dan babi mentah dan produk makanan yang diproses menggunakan analisis tindakbalas rantaian polimerase-polimorfisme panjang serpihan penyekatan (PCR-RFLP). Universiti Kebangsaan Malaysia, **MALAYSIA**.
49. Hossein Jamali (SGR100054). 2013. MSc. Thesis on Isolation and characterization of *Listeria monocytogenes* from ready-to-eat food. University of Malaya, **MALAYSIA**.
50. Wan Sakeenah binti Wan Nazri (PS1348). Thesis on Universiti Kebangsaan Malaysia, **MALAYSIA**.
51. Norliana binti Sharian (GS20401). 2013. MSc. Thesis on Freshness, microbiological quality, biochemical characterization and formaldehyde contents of selected fish during storage. Universiti Putra Malaysia, **MALAYSIA**.
52. Rafidah@Norhasliza binti Mohd Ariff (GS23499). MSc. Thesis on Enhancement of recombinant phytase production from *Escherichia coli* DH5 α . Universiti Putra Malaysia, **MALAYSIA**.

53. Nikoo Kamalian (GS21410). 2013. MSc. Thesis on Influence of encapsulation conditions on viability and delivery characteristics of *Bifidobacterium pseudocatenulatum* G4. Universiti Putra Malaysia, **MALAYSIA**.

34-1. Chairman of Thesis Examination (VIVA Session)

MASTER DEGREE (MS)

1. Ho Swee Kheng (GS26205). Master of Science (Food Technology) Thesis on Ultrasound-assisted extraction of phytochemical-enriched extract from selected Malaysian medicinal herbs. Universiti Putra Malaysia, **MALAYSIA**.
2. Tarig Abdelmunem Mohamed Ali. 2012. Master of Science Thesis on Effects of vinegar and different processing temperatures on the quality of sous vide tilapia fillet stored at chill condition. Universiti Putra Malaysia, **MALAYSIA**.
3. Siti Hajar bt Azhari (GS29775). 2013. Master of Science (Food Biotechnology) Thesis on Production of 947-aminobutyric acid (GABA) by *Aspergillus oryzae* NSK using different native sugars-containing media. Universiti Putra Malaysia, **MALAYSIA**.
4. Vickneswari A/P Perumal (GS28760). 2013. Master of Science (Food Science) Thesis on Metabolomic approach of antidiabetic and antiobesity activity of *cosmos calidatus* in obese diabetic (OB-DB) induced rat. Universiti Putra Malaysia, **MALAYSIA**.
5. Norazlina binti Omar (GS29236). 2013. Master of Science (Food Science) Thesis on Effectiveness of dispersive solid phase extraction in quenchers technique for analysis of organochlorine pesticides in white shrimp. Universiti Putra Malaysia, **MALAYSIA**.
6. Selvi a/p Velu (GS29176). 2013. Master of Science (Food Safety) Thesis on Antimicrobial activity of different citrus fruits and effects of key lime juice extract on quality changes of white shrimp. Universiti Putra Malaysia, **MALAYSIA**.

DOCTORAL DEGREE (PhD)

1. Babak Rasti (GS25415). 2013. Doctor of Philosophy (Food Safety) Thesis on Preparation, characterization in vivo evaluation and application of nanoliposomal omega-3 for food enrichment. Universiti Putra Malaysia, **MALAYSIA**.
2. Lim Pek Kui (GS24013). 2013. Doctor of Philosophy (Food Safety) Thesis on Acrylamide in sweet potato (*Ipomoea batatas* L. Lam) chips – an important emerging issue for carbohydrate-rich processed food. Universiti Putra Malaysia, **MALAYSIA**.

35. Review activities.

Food Microbiology
Food and Nutritional Science
Food Control
Medical Science Monitor
Asia Pacific Journal of Molecular Biology and Biotechnology
Asian Fisheries Science
Jurnal Veterinar Malaysia
Malaysian Applied Biology
Animal Science Journal
Tropical Biomedicine
Journal of Bioscience
Asean Food Journal

Journal of Science and Technology in the Tropics (JOSTT)
 Pertanika Journal of Tropical Agricultural Science (JTAS)
 Journal of Applied Microbiology
 Letters in Applied Microbiology
 Microbial Ecology
 African Journal of Biotechnology
 International Food Research Journal

36. List of Publications

Book

1. Son Radu. 2009.

Big Questions, Small Worlds: Following Divers Vistas. Inaugural lecture Series. ISBN 978-967-344-013-9.

Book Chapter

1. Kabir, K. M., Abdulkarim, S. M., Abdul Hamid, A. Son Radu and Saari, N. B. 2012. Chapter 14: Polyphenolic Tea Catechins: Health Promotion, Disease Prevention and Molecular Mechanisms of Action. In: Natural Products and Their Active Compounds. Editors: M. Essa, A. Manickavasagam and E. Sukumar. 2012. Nova Science Publishers Inc. ISBN 978-967-344-013-9

Special Publication for the Food and Agriculture Organization (FAO) and World Health Organization (WHO) of the UNITED NATIONS; Ministry of Health Malaysia

- a. Report of Joint FAO/WHO Expert Consultation on Risk Assessment of Microbiological Hazards in Foods. Risk characterization of *Salmonella* spp. in eggs and broiler chicken and *Listeria monocytogenes* in ready-to-eat foods. Food and Agriculture Organization of the United Nations Headquarters, Rome, Italy. 30 April – 4 May 2001. (I am a member of the Expert Consultant group to review the report).
- b. Report of Joint FAO/WHO Expert Consultation on Foods Derived From Biotechnology. Safety Assessment of Foods Derived From Genetically Modified Microorganisms (GMM). World Health Organization of the United Nations Headquarters, Geneva, Switzerland. 24-28 September 2001. (I am a member of the Expert Consultant group to review the report).
- c. Report of WHO Global Salm-Surv (GSS) Regional Research Project on Occurrence and Epidemiology of Salmonella Weltevreden in the Southeast Asian and Western Pacific. April 2003. (I am the country representative and have contributed data from my own research in Malaysia towards the report as well as to draft the final report).
- c. Report on Food Safety Monitoring Activity. Comparative study on microbiological status of Nasi Lemak from two (2) different operators (rural and urban setting) 2005. Research Monitoring Section, Food Safety and Quality Division, Ministry of Health Malaysia. (I am one of the researchers involved in this project).
- d. Technical Report on Microbiological Risk Assessment. Joint Faculty of Food Science and Technology, University Putra Malaysia/Food Safety and Quality Division, Ministry of Health Malaysia Expert Consultation on Risk Assessment of *Vibrio parahaemolyticus* in black tiger prawn (*Penaeus monodon*) (I am the Leader of the Risk Assessment Team as well as the Chief Editor of the report).

- e. Report on the FAO Expert Workshop on the Application of Biosecurity Measures to Control Salmonella Contamination in Sustainable Aquaculture. Mangalore, India, 19-21 January 2010. (I am a member of the Expert Consultant group to review the report).

2a. Published Work (Original Papers in ENGLISH – Peer Reviewed)

[1992]

1. Ansary, A. and **Son Radu**. 1992. Conjugal transfer of antibiotic resistances and plasmids from *Campylobacter jejuni* clinical isolates. FEMS Microbiology Letters 91: 125-128.

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2. **Son Radu**. 1994. Antimicrobial resistance and plasmid profiles of *Salmonella enteritidis* with special reference to poultry isolates from rural Bario in Sarawak. Jurnal Veterinar Malaysia 6(2): 85-89.

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3. **Son Radu** and Ansary Ahmed. 1995. Cloning and expression of the erythromycin resistance determinant from *Campylobacter jejuni* in *Escherichia coli*. World Journal of Microbiology and Biotechnology 11: 685-686.
4. **Son Radu**, Ansary, A., Salmah, I. and Maznah, A. 1995. Survey of plasmids and resistance factors among veterinary isolates of *Salmonella enteritidis* in Malaysia. World Journal of Microbiology and Biotechnology 11: 315-318.
5. **Son Radu** and Gulam, R. R. A. 1995. Plasmids and antimicrobial susceptibility of *Escherichia coli* with special reference to poultry isolates in Sarawak. Jurnal Veterinar Malaysia 7(1): 21-25.
6. **Son Radu**, Ansary, A. and Salmah, I. 1995. Plasmids carrying genes for enterotoxin and antibiotic resistance in enterotoxigenic *Escherichia coli*. Malaysian Journal of Science 16A: 63-68.

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7. **Son Radu** and Ansary Ahmed. 1996. Molecular cloning and transposition of a kanamycin resistance determinant from *Campylobacter jejuni* between replicons in *Escherichia coli*. World Journal of Microbiology and Biotechnology 12: 353-356.
8. **Son Radu**, Ansary, A., Rusul, G. and Karim, M. I. A. 1996. Isolation of verotoxin-producing *Escherichia coli* associated with diarrhoea in Malaysia containing plasmids showing homology with biotinylated Shiga-like toxin DNA gene probe. World Journal of Microbiology and Biotechnology 12: 243-246.
9. Rusul, G., Jamal Khair, **Son Radu**, Cheah, C. T. and Yassin, R. M. 1996. Prevalence of *Salmonella* in broilers at retail outlets, processing plants and farms in Malaysia. International Journal of Food Microbiology 33: 183-194.
10. **Son Radu** and Ansary Ahmed. 1996. Nucleotide sequence of a plasmid-borne erythromycin resistant gene from *Campylobacter jejuni*. Asia Pacific Journal of Molecular Biology and Biotechnology 4(2): 132-135.

11. **Son Radu**, Karim, M. I. A., Rusul, G. and Yusoff, K. 1996. Plasmids and antimicrobial resistance among *Campylobacter jejuni* isolated from retail fresh poultry. Asia Pacific Journal of Molecular Biology and Biotechnology 4(2): 106-111.
12. **Son Radu**, Rusul, G. and Rahim, A. R. 1996. Plasmids and resistance to antimicrobial agents in cytotoxic and haemolytic *Aeromonas hydrophila* clinical isolates. Journal of Tropical Biomedicine 13: 17-23.
13. **Son Radu**, Rusul, G. and Karim, M. I. A. 1996. Plasmid and antimicrobial resistance transfer from poultry strains to aquatic strains of *Escherichia coli*. Jurnal Veterinar Malaysia 8(1): 7-15.

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14. **Son Radu**, Maimunah, M., Rusul, G., Mokhtar, A M. and Khoo, L. L. 1997. Characterization of *Salmonella enteritidis* isolates by plasmid profiling, phage typing and antibiotic resistance. Journal of Tropical Biomedicine 14: 75-80.
15. **Son Radu**, Zainuri, A., Rusul, G., Karim, M. I. A., Ali, A. M. and Harikrishna, K. 1997. Survival of genetically engineered *Escherichia coli* in river water. Journal of Tropical Biomedicine 14: 19-26.
16. **Son Radu**, Ansary, A. and Rusul, G. 1997. Dispersal in *Campylobacter jejuni* and *Campylobacter coli* of a kanamycin resistance determinant. Journal of Bioscience 8(2): 127-132.
17. Gulam Rusul, Chong Kam Chun and **Son Radu**. 1997. Survival and growth of *Vibrio cholerae* O139 in selected Malaysian street foods. Journal of Food Protection 60(6): 644-648.
18. **Son Radu**, Rusul, G., Sahilah, A. M., Zainuri, A., Raha, A. R. and Salmah, I. 1997. Antibiotic resistance and plasmid profile of *Aeromonas hydrophila* isolates from cultured fish, *Telapia (Telapia mossambica)*. Letters in Applied Microbiology 24: 479-482.
19. **Son Radu**, Rusul, G. and Karim, M. I. A. 1997. Conjugal transfer of plasmids and antibiotic resistance among *Escherichia coli* isolated from animals in a rural area in Sarawak (Malaysia). Journal of Applied Microbiology 82: 240-244.
20. **Son Radu**, Rozila, A., Rusul, G., Zainuri, A., Raha, A. R. and Sahilah, A. M. 1997. Antibiotic resistance and plasmid profiles of *Escherichia coli* in raw milk and beef. Malaysian Applied Biology 26(2): 77-81.
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- parahaemolyticus* from cockles (*Anadara granosa*). World Journal of Microbiology and Biotechnology 14: 895-901.
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 29. Liew, W. S., Leisner, J. J., Rusul, G., **Son Radu** and Rasip, A. 1998. Survival of *Vibrio* spp. including inoculated *V. cholerae* O139 during heat-treatment of cockles (*Anadara granosa*). International Journal of Food Microbiology 42: 167-173.
 30. Endang, P., **Son Radu**, Zaiton, H. and Rusul, G. 1998. Antimicrobial drug resistance and resistance factor transfer among *Listeria* species. Asian Fisheries Science 11: 261-270.
 31. Rusul, G., **Son Radu**, Jamal, K. and Napis, S. 1998. Diversity of *Salmonella* isolated from poultry in Peninsular Malaysia. Journal of Bioscience 9: 7-14.
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44. Rusul, G., **Son Radu** and Siti, N. A. H. 1999. Antimicrobial resistance among *Listeria* species isolated from retailed fresh poultry. *Jurnal Veterinar Malaysia* 11(2): 79-82.
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50. Salasiah, K., Rusul, G., **Son Radu** and Foo, H. L. 2000. Bacteriocin-producing lactic acid bacteria isolated from traditional fermented food. *Malaysian Journal of Medical Sciences* 8: 52-57.
51. Neela, V., Shamsudin, M. N., Somarny, W., Rozita, R., Raha, A. R. and **Son Radu**. 2000. Application of randomly amplified polymorphic DNA markers (RAPD) to distinguish isolates of *V. cholerae* and *V. alginolyticus*. *Asia Pacific Journal of Molecular Biology and Biotechnology* 8: 131-136.
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314. Chai Lay Ching, Tunung Robin, Usha Menon Ragavan, Lee Hai Yen, Farinazleen Mohamad Ghazali, Fatimah Abu Bakar, **Son Radu** and Kumar Malakar Pradeep. 2006. Antimicrobial resistance of *Campylobacter jejuni* isolated from raw salad vegetables in Malaysia. 28th Symposium of the Malaysian Society for Microbiology, Malacca. 24-27th November 2006.
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 316. 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* species in broiler chickens from wet market and supermarket. 28th Symposium of the Malaysian Society for Microbiology, Malacca. 24-27th November 2006.
 317. Elaine Remi Douglas Telajan, Clemente Michael Wong Vui Ling, Sahilah Abdul Mutalib, Sharon Lau Yu Ling, Tang Sui Yan and **Son Radu**. 2006. Isolation and screening of bacteria with capabilities to improve the nutritive value of palm kernel cake. 28th Symposium of the Malaysian Society for Microbiology, Malacca. 24-27th November 2006.
 318. **Son Radu**. 2006. Genetically Modified Foods – Benefits and Risks. National Forum on Environmental Health Forum on “How Safe is Our Food? Pressing Issues in Malaysia”, Institute for Medical Research, Kuala Lumpur. 19th December 2006.

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 340. Sandra, S. and **Son Radu**. 2008. Detection of *Shewanella putrefaciens* from spoiled fish as energy converter. Seminar on Food Biotechnology "Perspectives, Challenges and Opportunities". Equatorial Hotel, Bangi. 25-26 November 2008. p52.
 341. Paie, M. S., Robin, T., Ponniah, J., Chai, L. C., Lok, C. M., Mohamad Ghazali, F. and **Son Radu**. 2008. Isolation, quantification and characterization of *Escherichia coli* O157:H7 in local and imported beef marketed in Malaysia. Seminar on Food Biotechnology "Perspectives, Challenges and Opportunities". Equatorial Hotel, Bangi. 25-26 November 2008. p53.
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Symposium on Biomedical Sciences 2012. 13-14 March 2012. Faculty of Medicine and Health Sciences, UPM, Malaysia.

346. **Son Radu.** 2010. Effect of temperatures on biofilm formation. International Conference on Food Safety and Security under Climate Change (FCC2010). Dec 6 – 7, 2010. Parkroyal Hotel, in Penang, Malaysia.

2011

347. **Son Radu.** 2011. Plenary paper on *E. coli* O10:H4. Persidangan Keselamatan Kebangsaan. 6 - 8 Disember 2011. Pusat Konvensyen Antarabangsa Putrajaya (PICC), Malaysia.

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349. Noor Marian Muda, Sharifah Aminah Syed Mohamad, Zuraini Mat Issa, **Son Radu**, Lee Hai Yen, Wong Woan Chwen, Norizan Ahmat. 2012. Random Amplified Polymorphism DNA Profile of *Listeria monocytogenes* from Raw and Ready-To-Eat Foods in Malaysia. IEEE Symposium on Humanities, Science & Engineering Research.
350. **Son Radu.** 2012. Malaysian Fisheries Products Export to EI – A Case Study on the Risk Assessment of *Vibrio parahaemolyticus* in Tiger Prawn. Seminar and Workshop for Establishment of an Asian Research Center of Excellence in Healthy and Safe Marine Food Resources. 2nd Symposium of TUMSAT Healthy and Safe Marine Food Resources Project. 5-7 September 2012. Kasetsart University, Bangkok, Thailand. Organised by Tokyo University of Marine Science and technology & Kasetsart University.
351. Lye, Y. L., Loo, Y. Y., Chang, W. S., Nishibuchi, M., Nakaguchi, Y. and **Son, R.** 2012. Risk of *Escherichia coli* O157:H7 and *Escherichia coli* O104:H4 Transmission Linked to the Consumption of Raw Vegetables and Fresh Milk. United States-Japan Cooperative Medical Science Program 47th Annual Joint Panel Meeting in Cholera and Other Bacterial Enteric Infection Conference. 12-14 December, Chiba, Japan.
352. Lye, Y. L., Loo, Y. Y., Chang, W. S., Nishibuchi, M., Nakaguchi, Y. and **Son, R.** 2012. Biosafety of *Salmonella* transmission linked to consumption of fresh produces in Malaysia. United States-Japan Cooperative Medical Science Program 47th Annual Joint Panel Meeting in Cholera and Other Bacterial Enteric Infection Conference. 12-14 December, Chiba, Japan.
353. Ubong, A., Elexson, N., Tunung, R., Lye, Y. L., Loo, Y. Y., Chang, W. S., Nishibuchi, M., Nakaguchi, Y. and **Son, R.** 2012. *Vibrio parahaemolyticus* – the risk of contamination of raw salad vegetables at pre-harvest, retail and domestic kitchen level. United States-Japan Cooperative Medical Science Program 47th Annual Joint Panel Meeting in Cholera and Other Bacterial Enteric Infection Conference. 12-14 December, Chiba, Japan.
354. Afsah-Hejri, L., Chwen, W.W., Nakaguchi, Y., Nishibuchi, M. and **Son, R.** 2012. Risk of *Listeria monocytogenes* transmission through consumption of Burgers. United States-Japan Cooperative Medical Science Program 47th Annual Joint Panel Meeting in Cholera and Other Bacterial Enteric Infection Conference. 12-14 December, Chiba, Japan.

355. Tuan Zainazor Tuan Chilek, Cheah Yoke Kqueen and **Son Radu**. 2012. Risk of Norovirus Transmission Linked to the Consumption of Raw Vegetables. 6th Asian Conference on Food and Nutrition Safety November 26-28, 2012, Singapore

2013

356. Ubong, A., Chai, L.C., Loo, Y.Y., Malcolm, T.T.H, Lee, H.Y., Nishibuchi, M. and **Son, R.** 2013. Prevalence of *Bacillus cereus* in Ultra-High Heat Treated (UHT) Milk (P057). 20th SAAFoST Biennial International Congress and Exhibition 2013. 7-9 October 2013. CSIR International Convention Centre, Pretoria, South Africa.
357. Malcolm T. T. H., Cheah Y. K., Che Wan Jasimah W. M. R., Haresh K. K., Nakaguchi Y., Nischibuchi M., and **Son R.** 2013. Incidence of *tdh*-positive and *trh*-positive *Vibrio parahaemolyticus* in cockles determined by the Most probable number-Loop mediated isothermal amplification (MPN-LAMP). 20th SAAFoST Biennial International Congress and Exhibition 2013. 7-9 October 2013. CSIR International Convention Centre, Pretoria, South Africa.

37. Conference, Seminar, Workshop and R & D Exhibition Attended

No.	Conference/Seminar/Workshop/R & D Exhibition	Status	Paper presented
1	3 rd Symposium of Applied Biology, Tanjong Bidara, Malacca. 28-29 May 1994	Participant	Cloning, expression and transposition of a cloned kanamycin resistance determinant from <i>Campylobacter jejuni</i> in <i>Escherichia coli</i> .
2	17 th Malaysian Society for Microbiology Symposium, Penang. 29-30 November 1994	Participant	Isolation of plasmid encoding tetracycline resistance from <i>Salmonella enteritidis</i> strain isolated from human.
3	18 th Malaysian Society for Microbiology Symposium, Kuching, Sarawak. 23-24 August 1995		Transmissible R-plasmid from <i>Escherichia coli</i> isolated from animal sources in Sarawak.
4	19 th Malaysian Society for Microbiology symposium, Setiu, Terengganu. 18-23 August 1996	Participant	Isolation of haemolytic, enterotoxigenic and antibiotic resistance <i>Aeromonas hydrophila</i> strain from cultured fish (<i>Telapia mossambica</i>) and clinical source.
5	Induction Course for New Academic Staff, University Putra Malaysia. 9-11 December 1996	Participant	-
6	Malaysian Society for Molecular Biology and Biotechnology Scientific Forum, University of Malaya, Kuala Lumpur. 19 June 1996	Participant	-
7	97 th General Meeting of American Society for Microbiology, Miami Beach, Florida, USA. 4-8 May 1997	Participant	Antimicrobial susceptibility and plasmid profiles of <i>Escherichia coli</i> O157:H7 isolates from retail frozen beef in Malaysia.
8	3 rd Symposium on Trends in Biotechnology, University Putra Malaysia. 15-17 May 1997	Participant	-
9	20 th Malaysian Society for Microbiology Symposium, Port Dickson, Negeri Sembilan. 2-4 June 1997	Participant	-
10	Workshop on Malaysia-Japan (NBD-NEDO) Research Cooperation on Conservation and Sustainable Use of Tropical Bioresources, Sunway Lagoon Resort Hotel, Petaling Jaya, Malaysia.	Participant	-

	10-12 November 1997				
11	Asian Molecular Biology Organization (AMBO) Course on GENE EXPRESSION, National Institute of Genetics, Mishima, Japan. 1-11 April 1998	Participant			1. <i>In vitro</i> transcription, dsDNA site directed mutagenesis, over-production and purification of the sigma factor from <i>Escherichia coli</i> . 2. Pulsed field gel electrophoresis typing of <i>Dichelobacter nodosus</i> from sheep in Malaysia.
12	New Renumeration System Course (SSB), University Putra Malaysia. 1-23 May 1998	Participant			-
13	Fourth Asia Pacific Food Analysis Conference, Chiangmai, Thailand. 15-10 November 1998	Participant			RAPD-PCR characterization of <i>Escherichia coli</i> O157:H7 isolates from imported beef.
14	JSPS/NRCT/DOST/LIPI/VCC Regional Workshop on Endophytic Microbes, Cibinong, Bogor, Indonesia. 23-26 November 1998	Participant			Raw sago starch degrading enzyme production from selected endophytic fungi.
15	21 st Malaysian Society for Microbiology Symposium, Mines Beach Resort, Seri Kembangan, Selangor. 15-16 December 1998	Participant			-
16	35 th Annual Scientific Seminar, Malaysian Society of Parasitology and Tropical Medicine, Institute for Medical Research, Kuala Lumpur, Malaysia. 17-18 March 1999	Participant			-
17	First Canadian-Malaysian Seminar on Biotechnology in Agriculture. Canadian High Commission and National Biotechnology Directorate Malaysia, The Regent Kuala Lumpur, Malaysia. 21 September 1999	Participant Invitation only	by	-	
18	Annual Meeting of the Division of Food Quality Control No. 2/99, Ministry of Health Malaysia, Concorde Inn Hotel, Kuala Lumpur. 15-18 November 1999	Invited Speaker	Guest		Emerging and Reemerging Pathogens.
19	22 nd Malaysian Society for Microbiology Symposium and JSPS-NRCT/DOSST/LIPI/VCC Seminar. Penang Parkroyal Resort, Penang, Malaysia. 21-24 November 1999.	Participant			1. Isolation and screening of oligosaccharides producing endophytes from medicinal plants. 2. Evaluation of NON ALCO as disinfectant on local foods and kitchen utensil.
20	First National Symposium on Aquaculture. Berjaya Georgetown Hotel,	Participant			-

	Penang, Malaysia. 23 November 1999.		
21	Workshop to Identify Research Priorities in the Study of Human Pathogens and Emerging Food Safety Problems in Aquaculture, Asia-Pacific Fisheries Commission (APFIC) Working Group of Experts in Food Safety, Food and Agriculture Organization of the United Nations, College of Fisheries, Mangalore, India. 6-8 December 1999.	Participant	Human Pathogens in Aquaculture in Malaysia.
22	3 rd National Health Conference, Kuala Lumpur, Malaysia. 18-29 April 2000	Participant	Epidemiological typing and delineation of genetic relatedness of <i>Vibrio parahaemolyticus</i> by randomly amplified polymorphic DNA method.
23	International Symposium of Society for Bioscience and Bioengineering of Japan, Hokkaido University, Sapporo, Japan. 3-5 August 2000	Participant	Biodiversity of endophytic fungi from medicinal plants in Malaysia.
24	6 th International Conference on Emerging Infectious Diseases in the Pacific Rim, Manila, Philippines. 13-15 January 2001	Participant	(My research collaborator from Kyoto University, Japan, Professor Dr. Mitsuaki Nishibuchi presented a paper on "Regional research collaboration on the emerging bacterial enteric pathogens in Asia" in which I have contributed significantly on the data on emerging pathogens from Malaysia).
25	Special Forum on Biotechnology and GM foods: Public awareness and the need for practical action. Monash University Malaysia. Sponsored by Malaysian Agricultural Biotechnology Centre (MABIC) and International Service for the Acquisition of Agribiotechnology Applications (ISAAA), Kuala Lumpur, Malaysia. 31 March 2001	Participant and by special invitation only	-
26	11 th World Congress of Food Science and Technology, Seoul, Korea. 22-27 April 2001	Participant	Molecular epidemiology of <i>Escherichia coli</i> O157:H7 in beef and chicken meat burger marketed in Malaysia.
27	8 th Symposium of the Malaysian Society for Molecular Biology and Biotechnology, Hyatt Regency, Selangor, Malaysia. 14-16 May 2001	Participant	-
28	Rainforest Knowledge Industries Strategic Workshop (Research &	Participant.	-

	Development), Bioprospecting and Genomics. IDEAL, University Putra Malaysia, Malaysia. 13 July 2001		
29	24 th Symposium of the Malaysian Society for Microbiology. Cherating, Pahang. 1-12 September 2001	Chair Person for Symposium Session I on Food Microbiology.	-
30	Public Seminar: Assuring the Safety of Biotechnologically Produced Foods. Sponsored by Malaysian Agricultural Biotechnology Centre (MABIC) and International Service for the Acquisition of Agribiotechnology Applications (ISAAA), Kuala Lumpur, Malaysia. 22 September 2001	Participant by invitation only	-
31	BioThailand 2001: From Research to Market. Bangkok, Thailand. 7-10 November 2001	Participant	Bioprospecting of endophytic fungi from medicinal plants in Malaysia for bioactive compounds.
32	US-Japan Cooperative Medical Science Program Asian Region Collaboration Research Project Meeting. International Medical Center of Japan, Tokyo, Japan. 21-23 January 2002	Participant	1.Detection of toxigenic <i>Vibrio cholerae</i> O139 and O1 in the seafood marketed in Malaysia. 2.Development of the methods for rapid detection and molecular typing of <i>Escherichia coli</i> O157:H7 in the meat samples in Malaysia.
33	12 th Scientific Meeting of the Malaysian Society for Molecular Biology and Biotechnology. Selangor, Malaysia. 22-24 May 2002	Participant	Real-Time PCR detection of 35S promoter in genetically modified foods.
34	Asean European Ministerial (ASEM) Workshop on Agrofood Bioethics, European Federation of Biotechnology Task Group on International Relation, Palace of Golden Horses, Kuala Lumpur, Malaysia. 22 – 24 June 2002	Delegate by special invitation only	Participate in the discussion to draft the report on Ethics in Agrofood production.
35	World Health Organisation (WHO)/Japanese International Collaboration Agency (JICA)/Ministry of Health Malaysia (MOH) Workshop on Microbiological Risk Assessment in Foods, Ministry of Health Malaysia, Kuala Lumpur, Malaysia.	Participant	-

	12 – 13 August 2002			
36	2 nd ASEAN-ILSI (International Life Sciences Institute) Training Workshop on Safety and Risk Assessment of Agriculture-Related GMOs, Kuala Lumpur, Malaysia.	Participant.	-	
	20-22 August 2002			
37	BioMalaysia 2002, International Biotechnology Symposium, Exhibition and Biopartnering. Ministry of Science, Technology and the Environment Malaysia, Kuala Lumpur, Malaysia.	Participant		Use of real time PCR for the detection of GMO.
	1-4 October 2002			
38	Training Workshop on The Application of Science and Technology in Risk Analysis for Food Among Asean Countries. Organized by International Commission on Microbiological Specifications for Foods (ICMSF), Malaysian Agricultural Research and Development Institute (MARDI) and Ministry of Science, Technology and the Environment Malaysia (MOSTE), Malaysia.	Participant Invitation only	by -	
	7-9 October 2002			
39	Annual Scientific Meeting of US-Japan Cholera and other Bacterial Enteric Infections Panel. Laguna Garden Hotel, Okinawa, Japan.	Participant		Detection of <i>Vibrio cholerae</i> and other <i>Vibrio</i> spp. from environmental sources in Malaysia.
	17-19 December 2002			
40	Food Contamination Monitoring Conference 2003. Concorde Inn, KLIA	Invited Speaker		Vibrios in seafood in Malaysia
	28-30 April 2003			
41	Practical Course on MS ISO 9000:2000 on Documenting and Implementing The QMS. Universiti Putra Malaysia.	Participant	-	
	29-30 May 2003			
42	World Health Organization Conference on SARS. Kuala Lumpur, Malaysia	Observer	-	
	17-18 June 2003			
43	Orang Ulu Cultural Seminar IV 2003. Miri, Sarawak	Session Chairman		

	2-3 August 2003			
44	Workshop on Planning of the Publication of the Proceedings for the Research and Development Exhibition, Public Institute of Higher Learning 2003	Participant	-	
	22-24 August 2003			
45	Workshop on Writing of ISO Procedure. Residence Hotel, Selangor.	Participant	-	
	20-23 Oktober 2003			
46	Workshop on Writing of ISO Procedure for Academic Section. Fakulty of Food Science and Biotechnology, Universiti Putra Malaysia. 1 Nov. 2003 & 9 Nov. 2003	Participant -		
47	Competency Level Course (PTK6). Universiti Putra Malaysia. 27 Oct – 7 Nov. 2003	Participant	-	
48	Microbiological Risk Assessment 1 for Project on Strengthening of the Food Safety Programme in Malaysia. Conducted by JICA and Ministry of Health Malaysia, Kuala Lumpur, Malaysia 15-19 December 2003	Participant and head of the risk assessment team	-	
49	Microbiological Risk Assessment. Conducted by JICA and Ministry of Health Malaysia, Kuala Lumpur, Malaysia 20-22 April 2004	Participant and head of the risk assessment team	-	
50	FAO/WHO Regional Conference on Food Safety for Asia and the Pacific, Hotel Royal Adelphi, Seremban, Malaysia 24-27 May 2004	Participant		Involved in the workshop on <i>Enterobacter cloacae sakazaki</i> in infant milk
51	Internal Auditing Training, Faculty of Science and Food Technology, University Putra Malaysia. 10-11 August 2004	Participant		
52	Asian Symposium on Toxic Microorganisms – Control of Toxic Microorganisms in Foods of Animal Origin Organized by the Committee of Asian Symposium on Toxic Microorganisms, Renaissance Kuala Lumpur Hotel, Malaysia 22 August 2004	Organising Committee Member, Chair of one session, and presenting paper		Epidemiologic significance of pathogenic bacteria from animals and foods in Malaysia

53	Workshop on Writing Antarctic Research Project Proposal, Malaysian-Antarctica Research Programme, Academy of Sciences Malaysia, Malaysia 11 September 2004	Project Leader (Biology Programme)	Presented proposal on Screening for bioactive compounds from bacteria isolated from water and soil samples from Antarctica
54	Current Technologies for Microbial Identification and Characterization, MARDI, Malaysia 21-22 September 2004	Guest Speaker/Resource person	Microbes
55	Biolog MicroLog MicroStation Automated Bacteria, Yeast and Filamentous Fungi Identification System, Universiti Putra Malaysia, Malaysian Organisation of Pharmaceutical Industries (MOPI) & Technicvest Sdn Bhd Sept 30 – Oct. 1, 2004	Guest Speaker/Resource person	Identification, methodology and identification system
56	JSPS-NCRT, DOST, LIPI, VCC Seminar on Sustainable Use of Bioresources in the Tropics. Grand Bali Beach Hotel at Sanur Area, Bali, Indonesia. 3-4 December 2004	Participant	Characterization of potentially useful Actinomycetes and endophytic fungi
57	Fortieth Anniversary of US-Japan Cooperative Medical Science Program, Kyoto, Japan 7 December 2004	Participant	-
58	9 th International Conference on Emerging Infectious Diseases in the Pacific Rim, Kyoto International Conference Hall, Kyoto, Japan 8-10 December 2004	Participant	Studies on <i>Vibrio parahaemolyticus</i> in Malaysian and Indonesian environments. (Poster No. 12)
59	The Report Meeting of the USJCMSP Asian Region Collaboration Research Project 2003 Program. Kyoto International Conference Hall, Kyoto, Japan 11 December 2004	Participant	Studies on <i>Vibrio parahaemolyticus</i> in Malaysian and Indonesian environments. (Report No. 6)
60	Malaysia Toray Science Foundation 2004 Research Report Session. Dewan Kuliah 43.101, Kompleks Bistari, Lingkungan Kedua, Universiti Kebangsaan Malaysia 14 December 2004	Participant	Food Safety: <i>Escherichia coli</i> O157:H7 in the beef marketed in Malaysia"
61	Workshop on Student-Centered Learning-SCL. Experiment Theater,	Participant	-

	Universiti Putra Malaysia. 28 December 2004.		
62	Fire Safety Special Course Series 1/2005. Fire and Rescue Office of Seri Kembangan, Selangor & Fakulty Food Science and Technology. 15-19 January, 2005	Participant	-
63	Course on Document Control, Fakulty of Food Science and Technology, UPM. 5 February 2005	Participant	-
64	Development, Research and Innovation Exhibition 2005, Institute of Bioscience dan Research Management Center (RMC), Universiti Putra Malaysia 9-12 March 2005	Participant	Poster on Phylogenetic relationship, cloning and sequencing of a novel partial phytase gene from a new phytase-producing bacterium, <i>Mitsuokella jalaludini</i>
65	Fourth National Public Health Meeting, Hotel Marriot Putrajaya. 15-17 March 2005	Invited Speaker	Risk Assessment: An introduction and its application in food safety
66	Development, Research and Innovation Exhibition 2005, Fakulty of Food Science and Technology and the Research Management Center (RMC), Universiti Putra Malaysia 16-17 March 2005	Participant	Posters on: RAPD-A molecular tool for analyzing different sources of <i>Vibrio parahaemolyticus</i> . Real Time PCR quantitative detection methods of genetically modified organisms with the lighcycler instrument. The analysis of presence of genetically modified organism in soy by polymerase chain reaction. Species identification in processed meats by PCR-RFLP. Detection of <i>V. parahaemolyticus</i> by using specific-PCR. Risk Assessment: A scientific basis for risk analysis. Natural phenomenon: Its effect on cholera dissemination. Polymerase chain reaction: Analysis of raw pork and lard for halal authentication. Thermostable lipase from local strains of lipase-producing Thermophilic bacteria.
67	Chemical Waste Management Course, Faculty of Food Science and Technology, UPM	Participant	-

68	1 April 2005 Competency Course 4, Management and Professional Groups Series 5/2004, Competency Development Division, Ministry of Health Malaysia.	Invited Speaker	Risk Analysis/Risk Assessment
69	12 April 2005 Food Safety Conference: Overview of Monitoring Programme. Food Safety and Quality Division, Ministry of Health Malaysia.	Participant	-
70	12 April 2005 Workshop on Microbiological Risk Assessment. Food Safety and Quality Division, Ministry of Health Malaysia.	Participant	Leader of Risk Assessment Team and presented data for the modeling practice
71	13-15 April 2005 Briefing on "International Research Grant – Experience and Successful Story", Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	Invited Speaker	Personal Experience in International Research Collaboration
72	6 June 2005 Curriculum Review, Faculty of Food Science and Technology, Hotel Equatorial, Bangi.	Participant	Terlibat dalam semakan bahagian mikrobiologi dan bioteknologi makanan.
73	5-6 July 2005 Seminar on Genetically Modified Organism. Institute for Biotechnology Research, University Malaysia Sabah, Malaysia	Key Invited Speaker	GMO Detection
74	11-12 August 2005 BIOTECHNOLOGY ASIA 2005 Exhibition, PWTC, Kuala Lumpur, Malaysia.	Participant	Amplifluor universal GMO detection system.
75	16-18 August 2005 Asian Institute of Medicine, Science & Technology, Sungai Petani, Kedah, Malaysia	Guest Lecturer	Introduction to Genetically Modified Organisms (GMOs) Biosafety issues of GMO Monitoring of GMO in Malaysia
76	21 January 2006 FAO/WHO/AIFST/FSA pre conference workshop on Microbiological Risk Assessment, Sydney, Australia	Participant	Quantification of <i>Vibrio parahaemolyticus</i> in black tiger prawn (<i>Penaeus monodon</i>) – quantification from selected commercial farms – a prelude to a risk assessment study in Malaysia.
77	20 February 2006 2 nd International Conference on Microbial Risk Assessment:	Participant and	Quantitative detection of <i>Vibrio parahaemolyticus</i> in tiger

	Foodborne Hazards. Sponsored by FAO and WHO, Sydney, Australia 21-23 February 2006	presenting paper	prawn: a prelude to risk assessment activity in Malaysia
78	The Fifth National Food Safety and Food Additive Meeting, Putrajaya International Convention Center. 2 March 2006	Participant and Presenting paper	Risk Assessment of <i>Vibrio parahaemolyticus</i> in tiger prawn
79	FAO/LKIM/INFOFISH National Workshop on Trade and Technical Aspects of Marketing Seafood and the Launch of The FAO Marketing/Technical Data Base. 20-21 April 2006	Invited Speaker	Overview of quantitative risk assessment initiative of <i>Vibrio parahaemolyticus</i> in frozen tiger prawn in Malaysia
80	Workshop on Research and Direction of the Food Groups, Faculty of Food Science and Technology, Equatorial Hotel, Bangi 10 May 2006	Participant	Participating in preparation of the "Pelan Strategi and Objektif" for Research University Status
81	17 th International Invention, Innovation, Industrial Design Technology Exhibition Malaysia (I-TEX 2006). KLCC, Malaysia. 19-21 May 2006	Participant and presenting poster	Real Time PCR for quantitative detection of genetically modified organism in soy and its products. Enzyme from Thermophilic bacteria
82	Meeting of the Panel Member for the SCIENCEFUND funding – Food Cluster, Faculty of Food Science and Technology, UPM 12-13 June 2006	Evaluating proposal	-
83	The 8 th International Exhibition and Conferences on Instrumentations, Controls and Automation Technology (ICA 2006) and The 8 th International Exhibition on Laboratory Instrumentation, Equipment, Automation and Services (Lab 2006), KLCC, Malaysia 19-22 June 2006	Invited Speaker	DNA-based method for the detection of genetically modified organism (GMOs)
84	Harmonization of Postgraduates Procedure Workshop, Faculty of Food Science and Technology, UPM 26-27 June 2006	Group Leader	Presenting summary on Postgraduates Courses Procedure (UPM/FSTM/600/PR07)
85	'Journal Club' 07/2006 of the Department of Public Health, Ministry of Health Malaysia, Putrajaya 7 July 2006	Invited Speaker	Using The Results of a Risk Assessment in Food Safety Risk Management
86	National Agriculture Convention '06, Ministry of Agriculture and Agro-Based Industry Malaysia & Federal Agricultural Marketing Authority, PWTC, Kuala Lumpur	Invited Speaker	Handling, presentation and safety of products

87	24-26 July 2006 Veterinary Association of Malaysia Congress, Seri Pacific Hotel, Kuala Lumpur	Invited Speaker	Monitoring and surveillance of antibiotic resistance in bacteria from poultry
88	25-27 August 2006 Regional Workshop FAO-TCP Project TCP/RAS/3011 "Strengthening National Capabilities in Seafood Trade Policy, including Risk Assessment and Traceability"	Invited Participant	Involve in the discussion session
89	17-19 August 2006 Exhibition on Development, Research & Innovation 2006 (PRPI 2006). Research Management Centre, Universiti Putra Malaysia. 22-24 August 2006.	Presenting Research Posters	Posters presented by my research group were: 1. Discrimination of <i>Salmonella</i> spp. By ERIC-PCR. Exhibition on Development, Research & Innovation 2006 (PRPI 2006). 2. Identification and prevalence of <i>Campylobacter</i> species in broiler chickens from wet market and supermarket using a rapid method of MPN-PCR. 3. Rapid and simple method for Most probable Number – Polymerase Chain Reaction (MPN-PCR) quantification of thermophilic <i>Campylobacter</i> species in raw vegetables (ulam). 4. Incidence and characterization of <i>Salmonella</i> species in street food and clinical samples. 5. Modeling of risk in food. Why and how? 6. Antagonistic Actinomycetes species against food pathogens. 7. Halal food authentication: detection of pig derivatives using molecular biology techniques. 8. Prevalence and molecular characterization of <i>Aeromonas</i> species isolated from different sources and locations in Malaysia. 9. Random amplified polymorphic DNA analysis of Genetically Modified Organisms. 10. Surface plasmon resonanace biosensor chip for real-

			time detection of Genetically Modified Organisms.
			11. Membrane based detection of Genetically Modified Organisms.
90	Institute of Graduate Studies, MARA University of Technology. 30 August 2006	Panel member	To evaluate Defense of Research Proposal of Ph.D. candidates
91	Workshop on Development of Programme for Master Structure C. Faculty of Food Science and Technology, UPM. 2 September 2006	Leader of the Postgraduate Programme Without Thesis	Preparing the executive summary and course synopsis
92	Communication and Stress Management Course. Faculty of Food Science and Technology, UPM. 6 & 8 September 2006	Participant	-
93	Basic Awareness Course on Microbiological Risk Assessment by FAO/WHO of the United Nations and ICD, Jakarta, Indonesia. 14-17 November 2006	Resource person	To lecture on: 1. <i>V. parahaemolyticus</i> in frozen prawns risk assessment. 2. MRA in practice, Infrastructure and basic requirements
94.	28 th Symposium of the Malaysian Society for Microbiology, Malacca. 24-27 th November 2006.	Keynote Speaker	Microbiological Risk Assessment (MRA) in Practice: Infrastructure and Basic Requirements
95.	Department of Standard Malaysia Meeting with Assessor SAMM 2/2006 7-9 December 2006	Participant	-
96.	Environmental Health Forum on "How Safe is Our Food? Pressing Issues in Malaysia", Institute for Medical Research, Kuala Lumpur 19 December 2006	Invited Speaker / Panelist	Genetically Modified Foods – Benefits and Risks
97.	Food Safety Programme Meeting , Ministry of Health Malaysia, Bayu Beach Resort, Port Dickson 27 February – 2 March 2007	Invited Speaker	Monitoring of <i>Campylobacter</i> spp. in poultry and raw vegetables commonly consumed as ULAM
98.	Academic Writing Workshop, Faculty of Food Science and Technology, Colmar Tropicale, Bukit Tinggi, Pahang 5-7 July 2007	Panel Pakar	Membimbing pensyarah dalam penulis manuskrip untuk diterbitkan dalam jurnal
99.	Malaysian Laboratory Accreditation Scheme (SAMM): Technical Assessor Training Course, Palm Garden Hotel, IOI Resort Putrajaya	Participant	

	18-19 July 2007		
100.	Workshop on the Initiation of the UNDP/GEF Capacity Building Activities on Implementing the Cartagena Protocol on Biosafety, Ministry of Natural Resources and the Environment, Putrajaya 19 July 2007	Participant	Involved in the discussion group on Implementation of the Cartagena Protocol on Biosafety
101.	10 th ASEAN FOOD CONFERENCE 2007, Kuala Lumpur, Malaysia 21-23 August 2007	- Lead Speaker - Chair Person for Session on Microbiological Risk Assessment	Prepsented paper on “Microbiological Risk Assessment in Practice: Culture-Dependent and Culture-Independent Approach for Data Collection”
102.	Symposium on Current & Innovative Approaches to Microbiological Food Safety Management, International Commission on Microbiological Specifications for Foods (ICMSF) and International Life Sciences Institute (ILSI) Southeast Asia Region in collaboration with Agri-Food & Veterinary Authority of Singapore (AVA), Holiday Inn Atrium Hotel, Singapore. 3-4 October 2007	Invited Speaker (Faculty)	Presented paper on Seafood Safety Issues – A Global Update
103.	Workshop on Subcommision of ICMSF in the Southeast Asia Region, , International Commission on Microbiological Specifications for Foods (ICMSF), Holiday Inn Atrium Hotel, Singapore. 4 October 2007	Participant	-
104	International Seminar on Application of Biomolecular to Industries and Health, Andalas University Campus Limau Manis, Padang, Indonesia 29 August 2007	Invited Speaker	GMO – rsisk and benefits
105.	Malaysian National Consultation Workshop on Strengthening of Food Inspection and Certification for Shrimp and Bivalve Molluscs in ASEAN Member Countries, Post Dickson, Negeri Sembilan, Malaysia 21-22 November 2007	Expert Consultant	Using The Results of Risk Assessment in Food Safety Risk Management Towards Strenthening of Food Inspection and Certification
106.	Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPI 2007). Penyelidikan Cemerlang Mencetus Inovasi. Dewan Besar, PKKSSAAS, UPM	Paricipant	Presented 3 Posters with research collaboartors on: - Multiplex PCR detection of Bacterial pathogens targeting <i>Salmonella</i> , <i>Vibrio cholerae</i> and <i>Vibrio</i>

	27-29 November 2007.		<i>parahaemolyticus</i> . - Molecular identification of birds in Greenwich Island, Antarctica. - Multiplex PCR detection of Genetically Modified Organisms.
107	Maimunah, M. and Son Radu. 2007. Conference on Scientific and Social Research (CSSR) 2006 & 2007. Sunway Lagoon Resort Hotel, Petaling Jaya. 3-5 July 2007.	Participant	Determination of fish species using polymerase chain reaction-restriction fragment length polymorphism (PCR-RFLP).
108.	Bengkel Penulisan Kertas Ilmiah 2008. Fakulti Sains dan Teknologi Makanan. Hotel Pan Pacific, KLIA, Sepang 11-13 June 2008	Participant	Wrote and submitted two papers
109.	Seminar on Biolog Phenotype Microarray (PM) Technology. Biolog Inc., USA. Hotel Royale Bintang Damansara, Petaling Jaya, Selangor, Malaysia. 6 -7 November 2008	Participant	-
110.	SEAFST International Conference : Microbiological Risk Assessment Workshop, Bogor Agricultural University, Indonesia 2-4 December 2009	Invited Speaker	Presenting paper and conducting the MRA workshop
111.	International Conference on Food Safety and Security under Changing Climate , Parkroyal Hotel, Penang, Malaysia. 6 – 7 December 2010	Deputy Chairman of Organising Committee	Incharge of Scientific and Technical Section & Present Papers
112.	International Conference on Food Research, Marriott Hotel, Putrajaya, Malaysia 22-24 November 2010	Chairman of Scientific and Technical Committee	Incharge of Scientific and Technical Section & Present Papers
113.	Joint FAO/WHO Expert Meeting on Risk Assessment Tools for <i>Vibrio Parahaemolyticus</i> and <i>Vibrio Vulnificus</i> Associated with Seafoods, FAO Headquarters, Rome, Italy 13-17 September 2010	Expert Consultant	Presenting report and drafting the guideline

114.	BIOLOG Workshop, Biotechnology Research and Development Institute (BiRDI), Cantho University, Vietnam 10-11 June 2010	Invited Speaker and Trainer	Presenting paper and conducting the workshop
115.	Expert Workshop on Application of Biosecurity Measures to Control <i>Salmonella</i> Contamination in Sustainable Aquaculture, FAO of the United Nations, Mangalore, India 19-21 January 2010	Expert Consultant	Presenting report and drafting the guideline
110.	SEAFast International Conference : Microbiological Risk Assessment Workshop, Bogor Agricultural University, Indonesia 2-4 December 2009	Invited Speaker	Presenting paper and conducting the MRA workshop
111	Seminar on Food Contaminants: Emerging Issues and Risk management Strategies & 9th ASEAN Food Safety Standards Harmonization Workshop January 11-12, 2011 Nanyang Polytechnic/Furama Riverfront Hotel, Singapore	Invited Speaker	ICMSF-Improving food safety in Southeast Asia
112	18 th Kyoto University International Symposium. Chulalongkorn University, Thailand. 25-26 May 2012	Invited Speaker	Contamination of Retailed Various Food Materials by <i>Campylobacter</i> spp., <i>Salmonella</i> spp., <i>Listeria</i> spp. and Other Bacterial Foodborne Pathogens
113	Workshop on AFRICA-ASIA Development. University of Malaya. 16-17 July 2012.	Participant	Presenting paper on Food Safety

38. Extension and Public Services

No.	Organization/Activity	Position	Responsibility
1	Department of Genetics and Cellular Biology, Faculty of Science, University of Malaya, Kuala Lumpur, Malaysia Workshop on Molecular Techniques: Tools for Biotechnology Course 20-28 August 1993	Organizing Committee Member	Helping in the initial preparation as well as during the workshop in Malaysia
2	Faculty of Food Science and Biotechnology, University Putra Malaysia, Malaysia Workshop on Molecular Tools for Biotechnology: Polymerase Chain Reaction (PCR) and Pulsed Field Gel Electrophoresis (PFGE) Course 17-20 September 1997	Chairman, Resource person	Coordinating, giving lecture and instruction during the workshop in Malaysia
3	Faculty of Food Science and Biotechnology, University Putra Malaysia, Malaysia 3 rd Symposium on Trends in Biotechnology 15-17 May 1997	Treasurer	Responsible for sponsorship
4	Faculty of Animal Science, Andalas University, Padang, Sumatera, Indonesia Molecular Biotechnology Course 2-3 September 1998	Chairman, Resource person	Giving lecture and instruction during the workshop in Indonesia
5	Graduate School of Agriculture, Hokkaido University, Japan and LIPI, Cibinong, Bogor, Indonesia Endophytic Microbes Workshop 22-26 November 1998	Instructor	Giving instruction during the workshop in Indonesia
6	Faculty of Food Science and Biotechnology, University Putra	Chairman,	Coordinating, giving lecture and instruction during the

	Malaysia, Malaysia	Resource person	workshop in Malaysia
	Workshop on Molecular Tools for Biotechnology: Multiplex Polymerase Chain Reaction (PCR) Course 10-12 December 1998		
7	Faculty of Food Science and Biotechnology, University Putra Malaysia, Malaysia and Graduate School of Agriculture, Hokkaido University, Japan	Chairman, Resource person	Coordinating, giving lecture and instruction during the workshop in Malaysia
	Workshop on Molecular Tools for Biotechnology: Isolation and Screening of Microbes from Plants for Useful Materials. 10-12 March 1999		
8	Faculty of Food Science and Biotechnology, University Putra Malaysia, Malaysia and Ministry of Health Malaysia	Chairman, Resource person	Coordinating, giving lecture and instruction during the workshop in Malaysia
	Workshop on Molecular Tools for Biotechnology: Microbiological Risk Assessment 4-8 October 1999		
9	Kelabit Association of Selangor and Federal Territory, Kuala Lumpur, Malaysia. 1999-2000	President	To oversee the activities conducted by the society
10	Kelabit Association of Selangor and Federal Territory, Kuala Lumpur, Malaysia 2001-now	Secretary General	To handle the affairs of the society
11	Faculty of Food Science and Biotechnology, University Putra Malaysia; Malaysian Society for Microbiology and Ministry of Health Malaysia.	Chairman, Resource person	Coordinating, giving lecture and instruction during the workshop in Malaysia
	Workshop on Molecular Tools for Biotechnology: Polymerase Chain Reaction (PCR) 24-26 July 2000		
12	Faculty of Food Science and Biotechnology, University Putra	Coordinator,	Coordinating and giving instructions during the workshop in

	Malaysia; Malaysian Society for Microbiology and Ministry of Health Malaysia.	Instructor and Chief Technical person	Malaysia
	Workshop on Genetically modified organisms (GMO): current status and technologies. 5-9 November 2001.		
13	Faculty of Food Science and Biotechnology, University Putra Malaysia, Malaysia.	Co-Chairman and Instructor	Coordinating and giving lectures and instruction during the workshop in Malaysia
	Workshop on Polymerase Chain Reaction: Primer Design and Applications 24-25 September 2002.		
14	Faculty of Food Science and Technology, University Putra Malaysia and Graduate School of Agriculture, Tokyo University, Japan Asian Symposium on Toxic Microorganisms – Control of Toxic Microorganisms in Foods of Animal Origin 22 August 2004	Joint Co-Chairperson	Coordinating the organization of the mini-symposium.
15	Faculty of Food Science and Technology, University Putra Malaysia Workshop on BIOLOG and Polymerase Chain Reaction (PCR) 17-18 May 2005	Chief Instructor	To give lecture on BIOLOG/PCR and conduct the workshop
16	Faculty of Food Science and Technology, University Putra Malaysia Workshop on Microbiological Risk Assessment 23-24 August 2007	Chief Instructor	To give lectures and also as chief instructor for the MRA workshop+
17	Department of Pharmacy, Faculty of Natural Science Andalas University, Padang, Indonesia Regional Workshop on Application of PCR Methods for Identification of Bacterial at Genetic Level 28-29 August 2007.	Invited Speaker and Instructor	To give lectures and also as instructor for the workshop+
18	Faculty of Mathematics and Natural Science, Andalas University,	Invited Speaker	Deliver talks on How to apply research grant and the

	Padang, Indonesia International Seminar on Advance Molecular Biology 13-16 July 2008		application of PCR
19	Faculty of Food Science and Technology, University Putra Malaysia Workshop on Microbiological Risk Assessment 12 – 13 November 2008	Chairman of Organising Committee and Chief Instructor	To give lectures and also as chief instructor for the MRA workshop
20	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia Workshop on Omnilog 12 – 13 March 2009	Chairman of Organising Committee and Chief Instructor	To give lectures and also as chief instructor for the MRA workshop
21	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia Workshop on <i>Listeria monocytogenes</i> in food 12 – 13 April 2009	Chairman of Organising Committee and Chief Instructor	To give lectures and also as chief instructor for the MRA workshop
22	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia & Merck Malaysia Sdn Bhd Training in Basic Food Microbiology 12 – 13 May 2009	Chairman of Organising Committee and Chief Instructor	
23	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia & Merck Malaysia Sdn Bhd Training in Basic Food Microbiology 1-2 July 2009	Chairman of Organising Committee and Chief Instructor	
24	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia IT Tech Training : For a better sample preparation and proper LC column care and maintenance 8 October 2009	Chairman of Organising Committee and Chief Instructor	
25	Ministry of Health Malaysia, Malaysia Basic Microbiological Risk Assessment 2009 Training	Chief Trainer	

	2-6 November 2009	
26	National Public Health Laboratory, Johor Baharu, Malaysia Basic Polymerase Chain Reaction Training	Chief Trainer
	11-12 November 2009	
27	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia The Safety in Food Chemical and Microbiological Laboratory	Chairman of Organising Committee
	17 November 2009	
28	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia & Merck Malaysia Sdn Bhd CEFSR and MERCK Basic Microbiology Training Workshop (Part III)	Chairman of Organising Committee and Chief Instructor
	18-19 November 2009	
29	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia Microbial Imaging Technology (MIT) Workshop	Chairman of Organising Committee and Chief Instructor
	5 February 2010	
30	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia Emerging Tools in Microbiological Testing and Food Safety: Alert! Microbes in Food!	
	28 June 2010	
31	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia Cholera ICT Evaluation	Trainer
	27-29 July 2010	
32	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia/ArenCORP Sdn Bhd/International Commission for Microbiological Specifications of Foods (ICMFS) Southeast Asia Subcommission Seminar and Workshop on <i>"Hands-on Training on Microbiological Food Safety and Quality Assessment"</i>	Chairman of Organising Committee and Trainer

	23-24 November 2010			
33	Faculty of Food Science and Technology, Universiti Putra Malaysia International Conference on Food Research 22-24 November 2010	Cairman of Scientific and Technical Committee		
34	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia International Conference on Food Safety and Security under Changing Climate 6-7 December 2010	Deputy Chairman of Organising Committee & Chairman of Scientific and Technical Committee		
35	Centre of Excellence for Food safety Research, Faculty of Food Science and Technology, University Putra Malaysia Microbiological Risk Assessment (MRA) 1-2 December 2010	Chairman of Organising Committee and Trainer		
26.	BIOLOG Workshop, Biotechnology Research and Development Institute (BiRDI), Cantho University, Vietnam 10-11 June 2010	Trainer		
27.	Workshop on Norovirus detection in foods. Univesity Putra Malaysia. 27-28 February 2013.	Resource Person		
28.	Workshop on MPN-PCR-LAMP-Plating for Vibrio parahaemolyticus detection, Universiti Putra Malaysia. 22-24 February 2013.	Chairman	Give lectures	

39. Auditor for MS ISO/IEC 17025 and SAMM Policy for Laboratory Quality System of a STANDARD MALAYSIA Accredited Laboratory

No.	Date	Type of Assessment	Name and Address of Laboratory being Assessed	Role in Assessment	Assessment Standard
1.	2 nd December 2010	Extension of Scope	Vet Food Agro Sdn Bhd	Member, Laboratory Accreditation Evaluation Panel (LAEP) Meeting (LAEP No. 77/10)	MS ISO/IEC 17025 and SAMM Policy
2.	24 th January 2012	Compliance Assessment	Geneflux Molecular Diagnostics Centre, Geneflux Biosciences Sdn Bhd, G1 & G2 Menara KLH, Bandar Puchong Jaya, 47100 Puchong, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
3	5 th - 6 th December 2011	Surveillance Assessment	Pusat Kawalan Kualiti, Biro Pengawalan Farmaseutikal Kebangsaan, Kementerian Kesihatan Malaysia, Jalan Universiti, P.O. Box 319, 46730 Petaling Jaya, selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
4.	12 th December 2011	Internal Audit (Microbiological and Chemical analysis for seafood)	Seafood Analytical Laboratory, Fish Landing Complex, Jalan Perusahaan Serasa, Muara BT 1725, Negara Brunei Darussalam	Technical Assessor	ISO 17025 & Singapore Laboratory Accreditation Scheme (SAC-SINGLAS)
5.	15 th – 16 th June 2012	Extension of Scope Assessment	Permulab Sdn Bhd, No. 38 Jalan SS 22/25, Damansara Jaya, 47400 Petaling Jaya, selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy

6.	18 th July 2012	Surveillance cum Extension of Scope Assessment	Chemlab (M) Sdn Bhd, 81-85 (2 nd & 3 rd Floor) Jalan SS 25/2, Taman Bukit Emas, 47301 Petaling Jaya, selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
7.	4 th – 5 th July 2012	Surveillance Assessment	Consolidated Laboratory (M) Sdn. Bhd., No. 2-3, Bedford Business Park, Jalan 3/137B Batu 5, Jalan Kelang Lama, 58000 Kuala Lumpur	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
8.	20 th March 2012	Consideration for Extension of Scope	1. UMBI, Universiti Kebangsaan Malaysia 2. UBAT, University Malaya	Member, Laboratory Accreditation Evaluation Panel (LAEP) Meeting (LAEP No. 25/12)	MS ISO/IEC 17025 and SAMM Policy
9.	28 th August 2012	Consideration of the Compliance / Extension of scope Assessment	1. Laboratory Dept. DXN Holdings Berhad (Extension of Scope) 2. TS Lab Sdn. Bhd. (Extension of Scope)	Member, Laboratory Accreditation Evaluation Panel (LAEP) Meeting (LAEP No. 65/12)	MS ISO/IEC 17025 and SAMM Policy
10.	31 st July – 1 st August 2012	Pre-Assessment	Melaka Biotechnology Corporation, Lot 7, MITC Hang Tuah Jaya, 75450 Ayer Keroh, Melaka	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
11.	25 th September 2012	Surveillance II Assessment	Makmal Veterinar Kawasan Johhor Bahru, Lot PTB 11098, Jalan Taruka Off Jalan Datin Halimah, 80350 Johor Bahru, Johor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
12.	8 th – 9 th May 2012	Extension of Scope Assessment	Makmal Kesihatan Awam Kebangsaan, Lot 1853 Kampong Melayu, 47000 Sungai	Technical Assessor	MS ISO/IEC 17025 and

			Buluh, Selangor		SAMM Policy
13.	12 th April 2012	Consideration of the Compliance / Extension of scope Assessment	1. UNIPEQ Sdn Bhd, UKM (Extension of Scope) 27 th July 2011 2. UNIPEQ Sdn Bhd, UKM (Extension of Scope) 3 rd December 2011 3. Makmal SMR FELDA Pasir Besar (Compliance)	Member, Laboratory Accreditation Evaluation Panel (LAEP) Meeting (LAEP No. 32/12)	MS ISO/IEC 17025 and SAMM Policy
14.	17 th – 18 th February 2012	Extension of Scope Assessment	ALS Technichem (M) Sdn Bhd, 9 Jalan Astaka U8/84, Seksyen U8, Bukit Jelutong, 40150 Shah Alam, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
15.	21 st – 22 nd May 2012	Extension of Scope Assessment	Chemsain Konsultant Sdn. Bhd., No. 47, 1 st Floor Wisma Koperkasa, Jalan Simpang Tiga, 93350 Kuching, Sarawak	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
16.	25 th – 26 th September 2012	Re-Assessment	Chemsain Konsultant Sdn. Bhd., No. 47, 1 st Floor Wisma Koperkasa, Jalan Simpang Tiga, 93350 Kuching, Sarawak	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
17.	13 th January 2013	Extension of Scope Assessment	Consolidated Laboratory (M) Sdn Bhd, No. 2-3 Bedford Business Park, Jalan 3/137B Batu 5, Jalan Kelang Lama, 58000 Kuala Lumpur	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
18.	29 th February 2012 – 1 st March 2012	Surveillance Assessment	Geneflux Molecular Diagnostics Centre, Geneflux Biosciences Sdn Bhd, G1 & G2 Menara KLH, Bandar Puchong Jaya, 47100 Puchong, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
19.	22 nd March 2012	Surveillance Assessment	Jabatan Kimia Malaysia, Jalan Sultan, 46661 Petaling Jaya, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy

20.	23 rd March 2012	Extension of Scope	Jabatan Kimia Malaysia, Jalan Sultan, 46661 Petaling Jaya, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
21.	2 nd – 3 rd April 2012	Re-Assessment	Makmal Kesihatan Awam Kebangsaan, Lot 1853 Kampong Melayu, 47000 Sungai Buluh, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
22.	8 th – 9 th May 2012	Extension of Scope Assessment	Makmal Kesihatan Awam Kebangsaan, Lot 1853 Kampong Melayu, 47000 Sungai Buluh, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
23.	9 th October 2012	Surveillance II Assessment	Olipro Biotechnology Sdn Bhd, Lot 5030 Jalan Teratai, 51/2 Mile Off Jalan Meru, 41050 Klang, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
24.	23 rd – 24 th November 2013	Auditing on Molecular nad Microbiology	Department of Agriculture, Brunei	Technical Assessor	ISO 17025 & Singapore Laboratory Accreditation Scheme (SAC-SINGLAS)
25.	1 st – 2 nd August 2013	Surveillance Assessment	ALS Technichem (M) Sdn Bhd, Wisma ALS, 19 & 21 Jalan Astaka U8/84, Seksyen U8, Bukit Jelutong, 40150 Shah Alam, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
26.	16 th – 17 th May 2013	Extension of Scope	Chemsain Konsultant Sdn. Bhd., No. 47, 1 st Floor Wisma Koperkasa, Jalan Simpang Tiga, 93350 Kuching, Sarawak	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
27.	29 th – 30 th October 2013	Surveillance Assessment	Chemsain Konsultant Sdn. Bhd., No. 47, 1 st Floor Wisma Koperkasa, Jalan Simpang Tiga, 93350 Kuching, Sarawak	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
28.	19 th September 2013	Pre-Assessment	Avian Farm Laboratory Charoen Pokphand Holdings (Malaysia) Sdn. Bhd., Lot 970, Batu 6, Jalan Labu 71900 Seremban, Negeri Sembilan	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy

29.	21 st January 2013	Consideration of the Compliance / Extension of scope Assessment	1. Jabatan Kimia Malaysia, Perak (Extension of Scope) 2. Jabatan Kimia Malaysia, Sibul (Compliance) 3. Indelab Sdn. Bhd. (Extension of Scope)	Member, Laboratory Accreditation Evaluation Panel (LAEP) Meeting (LAEP No. 5/13)	MS ISO/IEC 17025 and SAMM Policy
30.	18 th – 19 th November 2013	Re-Assessment	Jabatan Kimia Malaysia, Jalan Sultan, 46661 Petaling Jaya, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
31.	4 th – 5 th December 2013	Re-Assessment	Jabatan Kimia Malaysia, Jalan Sultan, 46661 Petaling Jaya, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
32.	30 th September 2013	Extension of Scpe	BP Environmental Testing Sdn. Bhd., No. 1 st Floor, No. 3 Jalan SS 15/4E, Subang Jaya , Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
33.	9 th April 2013	Consideration of the Compliance / Extension of scope Assessment	1. Chemsain Konsultant Sdn. Bhd. Kota Kinabalu (Extension of Scope) 2. Acumen Scientific Sdn. Bhd. Central Branch (Extension of Scope)	Member, Laboratory Accreditation Evaluation Panel (LAEP) Meeting (LAEP No. 25/13)	MS ISO/IEC 17025 and SAMM Policy
34.	22 nd March 2013	Consideration of the Compliance / Extension of scope Assessment	Melaka Biotechnology Corporation (Compliance)	Member, Laboratory Accreditation Evaluation Panel (LAEP) Meeting (LAEP No. 21/13)	MS ISO/IEC 17025 and SAMM Policy
35.	4 th – 5 th April 2013	Surveillance II Assessment	Jabatan Perkhidmatan Haiwan dan Perusahaan ternak Sabah, 88999 Kota Kinabalu, Sabah	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy

36.	22 nd – 23 rd May 2013	Surveillance Assessment	Jabatan Kimia Malaysia, Jalan Sultan, 46661 Petaling Jaya, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
37.	1 st October 2013	Surveillance Assessment	DNA Laboratories Sdn. Bhd, B1-4, Block Plasma, UKM-MTDC Technology Centre Universiti Kebangsaan Malaysia, 43650 Bangi ,Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
38.	12 th June 2013	Extension of Scope & Verification of Signatory Assessment	Melaka Biotechnology Corporation, Lot 7, MITC Hang Tuah Jaya, 75450 Ayer Keroh, Melaka	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
39.	10 th – 11 th September 2013	Re-Assessment	Makmal Veterinar Kawasan Johhor Bahru, Lot PTB 11098, Jalan Taruka Off Jalan Datin Halimah, 80350 Johor Bahru, Johor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
40.	21 st – 22 nd March 2013	Extension of Scope	Vet Food Agro Diagnostics (M) Sdn Bhd, Lot 18A & 18B, Jalan 241 Section 51A, 46100 Petaling Jaya, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
41.	10 th January 2013	Surveillance Assessment	TPM Biotech Sdn Bhd, G1-1 Enterprise 4, Lebuhraya Puchong-Sg Besi, 57000 Bukit Jalil, Kuala Lumpur	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
42.	7 th January 2014	Extension of Scope	Jabatan Kimia Malaysia, Jalan Sultan, 46661 Petaling Jaya, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
43.	21 st January 2014	Internal Audit	Faculty of Food Science and technology, Universiti Putra Malaysia	Technical Assessor	MS ISO/IEC 17025:2005 and SAMM Policy
44.	14 th February 2014	Compliance Assessment	Sri Senawang Laboratory, Charoen Pokphand Holdings (Malaysia) Sdn Bhd, Lot 2137, Jalan tampin, Sri Senawang Light Industrial Estate, 70450 Senawang, Negeri Sembilan	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy

45.	29 th January 2014	Pre-Assessment	BST Consultancy & Services Sdn. Bhd. Revongen Corporation Center No. 12A, Jalan TP 5, Taman Perindustrian UEP, 47600 Subang Jaya, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
46.	23 rd -24 th January 2014	Re-Assessment	Chemical Laboratory (M) Sdn Bhd, No. 81-85 (2 nd – 3 rd Floor) Jalan SS 25/2, Taman Bukit Emas, 47301 Petaling Jaya, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
47.	3 rd March 2014	Re-Assessment	Geneflux Molecular Diagnostics Centre, Geneflux Biosciences Sdn Bhd, G1 & G2 Menara KLH, Bandar Puchong Jaya, 47100 Puchong, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy
48.	21 st January 2014	Consideration of the Compliance / Extension of scope Assessment	1. Chemsain Konsultant Sdn Bhd (Extension of Scope) 2. Makmal Keselamatan dan Kualiti Makanan (Extension of Scope)	Member, Laboratory Accreditation Evaluation Panel (LAEP) Meeting (LAEP No. 7/14)	MS ISO/IEC 17025 and SAMM Policy
49.	21 st January 2014	Consideration of the Compliance / Extension of scope Assessment	1. MyTest Lab Sdn Bhd (Extension of Scope) 2. Exclusive Mark (M) Sdn Bhd (Compliance)	Member, Laboratory Accreditation Evaluation Panel (LAEP) Meeting (LAEP No. 6/14)	MS ISO/IEC 17025 and SAMM Policy
50.	7 th March 2014	Extension of Scope	Chemical Laboratory (M) Sdn Bhd, No. 81-85 (2 nd – 3 rd Floor) Jalan SS 25/2, Taman Bukit Emas, 47301 Petaling Jaya, Selangor	Technical Assessor	MS ISO/IEC 17025 and SAMM Policy