

CURRICULUM VITAE



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

Nama Penuh <i>(Full Name)</i>	FATIMAH ABU BAKAR		Gelaran <i>(Title)</i> : PROFESSOR DR
No. MyKad / No. Pasport <i>(Mykad No. / Passport No.)</i> 551024-08-5012	Warganegara <i>(Citizenship)</i> Malaysian	Bangsa <i>(Race)</i> Melayu	Jantina <i>(Gender)</i> Female
Jawatan <i>(Designation)</i> Prof/Lecturer/Deputy Dean		Tarikh Lahir <i>(Date of Birth)</i> 24 Oct 1955	

Alamat Semasa <i>(Current Address)</i>	Jabatan/Fakulti <i>(Department/Faculty)</i>	E-mel dan URL <i>(E-mail Address and URL)</i>
Department of Food Science, Faculty of Food Science and Technology Tel:603 89468368	Department of Food Science, Faculty of Food Science and Technology Tel:603 89468368 Fax:603 89423552	E-mail: fatim@food.upm.edu.my URL: H/P:6019 2775012

B. KELAYAKAN AKADEMIK *(Academic Qualification)*

Nama Sijil / Kelayakan <i>(Certificate / Qualification obtained)</i>	Nama Sekolah Institusi <i>(Name of School / Institution)</i>	Tahun <i>(Year obtained)</i>	Bidang pengkhususan <i>(Area of Specialization)</i>
Ph D	UPM	2001	Food Microbiology/Biotechnology
Master of Science	Univ. of London	1987	Microbial Physiology rel. to Biotechnology
BSc (Hon)	UKM	1985	Microbiology

C. KEMAHIRAN BAHASA *(Language Proficiency)*

Bahasa / Language	Lemah <i>Poor (1)</i>	Sederhana <i>Moderate (2)</i>	Baik <i>Good (3)</i>	Amat Baik <i>Very good (4)</i>	Cemerlang <i>Excellent (5)</i>
English					/
Bahasa Melayu					/
Chinese					
Lain-lain <i>(other):</i>					

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN*(Scientific experience and Specialisation)*

<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
UPM	Lecturer	1 Nov 1987	Till present	Food Microbiology
UPM	Assoc Prof	29Dec 2003	31 st March 2011	Food Microbiology
UPM	Professor	1 April 2011	Till present	Food Microbiology/Safety

E. PEKERJAAN (Employment)

<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
UPM	Deputy Dean	Faculty of Food Science and Technology	1 June 2010	1 June 2013
UPM	Head of Department /Program Coordinator	Dept of Food Science	1 June 2005	1 June 2010
UPM	Lecturer	Dept of Food Science	1 Nov 1987	Till present
UPM	Tutor	Dept of Food Science	1 Jan 1986	1 Nov 1987

F. ANUGERAH DAN HADIAH (Honours and Awards) as *Main Researcher*

<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
Gold Medal	Halotolerant <i>Staphylococcus carnosus</i> FS19 as potential histamine degrader	ITEX2012	International	2012
Gold Medal	Bactericidal Effect of Mung Bean Sprout against Multidrug Resistant Bacteria	PRPI 2011	University	2011
Gold Medal	Halotolerant <i>Staphylococcus</i> as aHistamine degrader	PRPI 2011	University	2011
Silver Medal	An enzyme-based biosensor for determination of formaldehyde in fish and fish products	MTE 2011	International	2011
Gold Medal	An enzyme-based biosensor for determination of formaldehyde in fish and fish products	PRPI 2010	University	2010
Gold medal	Potential starter culture to inhibit biogenic amines accumulation in fish	PRPI 2010	University	2010
Excellence Service Award	Excellence Service Award	Faculty of Food Science and Technology	University	2008
Excellence Service Award	Excellence Service Award	Faculty of Food Science and Technology	University	2007
<i>As Co-Researcher</i>				
Gold Medal	Use of <i>Paecilomyces sp.</i> For detection of boric acid in noodles	PRPI 2011	University	2011
Silver Medal	A DNA-based biosensor for determination of bacterial pathogens	MTE 2011	International	2011

Bronze medal	A capacitance-based biosensor for determination of histamine	MTE 2011	International	2011
Silver Medal	The influence of storage temperatures on the biogenic amines formation and quality of barramundi	PRPI 2010	International	2010
Silver Medal	A DNA-based biosensor for determination of bacterial pathogens	PRPI 2010	University	2010

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

Journal (Refereed) –Published (LAST 5 YEARS)- 2007-2012

1. Shafiquzzaman Siddiquee, Nor Azah Yusof, Abu Bakar Salleh, Soon Guan Tan, **Abu Bakar, F.** (2012). Development of electrochemical DNA biosensor for *Trichoderma harzianum* based on ionic liquid/ZnO nanoparticles/chitosan/gold electrode. *Journal of Solid State Electrochemistry*. 16(1). 273–282
2. Jassim, S. A. A., Abdulmir, A. S., and **Abu Bakar, F.** (2012) Novel phage-based bio-processing of pathogenic *Escherichia coli* and its biofilms. *World Journal of Microbiology and Biotechnology*. 28(1): 47-60
3. Raftari Mohammad, Azizi Jalilian, F, Abdulmir, A.S., Son Radu, Zamberi S and **Abu Bakar, F** (2012). Antibacterial activity of organic acids on *Salmonella* and *Listeria*. *Asia Life Sciences*. 21(1):13-30.
4. Zaman, M.Z., **Abu Bakar, F.**, Jinap Selamat and Jamilah Bakar. (2011). Novel starter cultures to inhibit biogenic amines accumulation during fish sauce fermentation. *International Journal of Food Microbiology*. 145:1. 84-91
5. Widjaja, W. P., Abdel Ameer A.S., **Abu Bakar, F.**, Nazamid B. Saari, Zamri B. Ishak, Hanis Hazeera Harith. (2011). Amino Acids And Biogenic Amines Determination In *Mystus Nemurus*. *Journal of Food Processing and Preservation*. 35:2.
6. Law, S. V., **Abu Bakar, F.**, Mat Hashim, D. and Abdul Hamid, A. (2011). Popular fermented foods and beverages in Southeast Asia. *International Food Research Journal*. 18:2. 474-483.
7. Noordiana, N., **Abu Bakar, F.** and Farhana, Y. C. B. (2011). Formaldehyde content and quality characteristics of selected fish and seafood from wet markets. *International Food Research Journal*. 18:1. 125-136.
8. Rand R. Hafidh, Ahmed S. Abdulmir, Law Se Vern, **Abu Bakar, F.**, Faridah Abas, Fatemeh Jahanshiri and Zamberi Sekawi. (2011). Inhibition of Growth of Highly Resistant Bacterial and Fungal Pathogens by a Natural Product *The Open Microbiology Journal*. 5: 96-106.
9. Rand Riadh Hafidh, Abdulmir A. S., Law Se Vern, **Abu Bakar*, F.**, Faridah Abas, Fatemeh Jahanshiri and Zamberi Sekawi (2011). Novel *in-vitro* antimicrobial activity of *Vigna radiata* (L.) R. Wilczek against highly resistant bacterial and fungal pathogens. *Journal of Medicinal Plants Research*. 5(16): 3606-3618.
10. Akanbi Taiwo Olusesan, Liyana Kamaruzaman Azura, Bitu Forghani, **Abu Bakar, F**, Abdul Karim Sabo Mohamed, Son Radu, Mohd Yazid Abdul Manap, Nazamid Saari. (2011). Enhancement of thermostable lipase production by a genotypically identified extremophilic *Bacillus subtilis* NS 8 in a continuous bioreactor. *Journal of Molecular Microbiology and Biotechnology*. 20:2. 205-215.
11. Zargar, M., Hamid, A.A., **Abu Bakar, F.**, Shamsudin, M.N., Shameli, K., Jahanshiri, F., Farahani, F. (2011). Green synthesis and antibacterial effect of silver nanoparticles using *Vitex negundo* L. *Molecules* 16:8. 6667-6676
12. Sabah Jassim, Ahmed S Abdulmir, and **Abu Bakar, F.** (2011). Novel phage-based bio-processing of pathogenic *Escherichia coli* and its biofilms. *World Journal of Microbiology and Biotechnology*. 1-14.

13. Shafiquzzaman Siddiquee, Nor Azah Yusof , Abu Bakar Salleh, Soon Guan Tan, **Abu Bakar, F.** (2011). Enhancement of dna immobilization and hybridization on gold electrode modified using zno nanoparticles/chitosan film. *Current Analytical Methods*. 7:4. 296-304.
14. Chong, C. Y., **Abu Bakar, F.**, Russly, A. R., Jamilah, B., and Mahyudin, N. A. (2011). The effects of food processing on biogenic amines formation. *International Food Research Journal*. 18:3. 867-876.
15. Hisham, H., Nor Azah Yusof , Abu Bakar Salleh, **Abu Bakar, F.** (2011). An optical test strip for the detection of benzoic acid in food. *Sensors*. 11:8. 7302-7313.
16. Zargar, M., Hamid, A.A., Roheeyati, A.M., **Abu Bakar, F.**, Jahanshiri, F., Pak Dek, M. S. (2011). Bioactive compounds and antioxidant activity of different extracts from Vitex negundo leaf. *Journal of Medicinal Plant Research*. 5:12. 2525-2532
17. Ang Swi See, Abu Bakar Salleh, **Abu Bakar, F.**, Nor Azah Yusof, Zaman, M.Z. and Lee Yook Heng (2011). Effect of boric acid on the growth and production of β -glucosidase in paecilomyces variotii. *African Journal of Microbiology Research*. 5:17. 2451-2454
18. Shafiquzzaman Siddiquee, Nor Azah Yusof , Abu Bakar Salleh, Soon Guan Tan, **Abu Bakar, F.** (2011). Development of electrochemical DNA biosensor for Trichoderma harzianum based on ionic liquid/ZnO nanoparticles/chitosan/gold electrode. *Journal of Solid State Electrochemistry*. 79. 31–36
19. Akanbi Taiwo Olusesan, L. Kamaruzaman Azura, Bitu Forghani, **Abu Bakar, F.** Abdul Karim Sabo Mohamed, Son Radu, Mohd Yazid Abdul Manap, Nazamid Saari. (2011). Purification, characterization and thermal inactivation kinetics of a non-regioselective thermostable lipase from a genotypically identified extremophilic *Bacillus subtilis* NS 8. *New Biotechnology*. 28:6. 738-745
20. Shafiquzzaman Siddiquee, Nor Azah Yusof , Abu Bakar Salleh, Soon Guan Tan, **Abu Bakar, F.** (2011). Electrochemical DNA biosensor for the detection of *Trichoderma harzianum* based on a gold electrode modified with a composite membrane made from an ionic liquid, ZnO nanoparticles and chitosan, and by using acridine orange as a redox indicator. *Microchimica Acta*. 172: 3-4. 357-363
21. Hairul Hisham H., Yusuf, N.A., Salleh, A. B. and **Abu Bakar, F.** (2011). Spectrophotometric Determination of Benzoic acid based on inhibitive effect on tyrosinase enzyme. *Asian Journal of Chemistry*. 23:3, 1133-1136.
22. Ahmed S Abdulmir, Rand R Hafidh and **Abu Bakar, F.** (2011). The association of *Streptococcus bovis/gallolyticus* with colorectal tumors: The nature and the underlying mechanisms of its etiological role. *Journal of Experimental & Clinical Cancer Research*, 30:11
23. Suzita, R., **Abu Bakar, F.** and Son, R. (2010). Detection of *Vibrio cholerae* in raw cockles (*Anadara granosa*) by polymerase chain reaction. *International Food Research Journal*. 117:2.
24. Zaman, M.Z., **Abu Bakar, F.**, Jinap Selamat and Jamilah Bakar. (2010). The occurrence of biogenic amines and amines degrading bacteria in fish sauce. *Czech Journal of Food Science*. 28(2010): 130-138
25. Jamilah Bakar, Ali Yassoralipour, **Abu Bakar, F.** and Russly Abdul Rahman. (2010). Biogenic amine changes in barramundi (*Lates calcarifer*) slices stored at 0 °C and 4 °C. *Food Chemistry*. 119: 2, 467-470
26. Akanbi Olesusan, Azura, .L., **Abu Bakar, F.**, Sheikh Abdul Hamid, N., Son Radu and Nazamid Saari, (2010). Highly thermostable extracellular Lipase-producing *Bacillus* strain isolated from a Malaysian hot spring and identified using 16s rRNA gene sequencing. *International Food Research Journal*. 117:1. 45-53.
27. Hajeb, P., Jinap, S, **Abu Bakar, F.**, and Jamilah, B. (2010). Methylmercury in marine fish from Malaysian waters and its relationship to total mercury content. *International Journal of Environmental Analytical Chemistry*. 90:10. 812-820.
28. Zaini, Nurul Aqilah Mohd, Harith, Hanis Hazeera, Olusesan, Akanbi Taiwo, Zulkifli, Anwarul Hidayah, **Abu Bakar, F.**, Osman, Azizah, Hamid, Azizah Abd, Saari, Nazamid. (2010). Level of Chemical and Microbiological Contaminations in Chili Bo (Paste). *Journal of Food Protection*, 73: 3, 541-546(6)
29. Shafiquzzaman Siddiquee, Nor Azah Yusof , Abu Bakar Salleh, Soon Guan Tan, **Abu Bakar, F.** and Lee Yook Heng.(2010). DNA hybridization based on *Trichoderma harzianum* gene probe immobilization on self-assembled monolayers on a modified gold electrode *Sensors and Actuators B: Chemical*. 147: 1, 198-205
30. Shafiquzzaman Siddiquee, Nor Azah Yusof , Abu Bakar Salleh, Soon Guan Tan, **Abu Bakar, F.** and Lee Yook Heng.(2010). Electrochemical DNA biosensor for the detection of specific gene related to *Trichoderma harzianum* species. *Bioelectrochemistry*. 79. 31–36
31. Abdulmir A. S., Yoke T. S., Nordin N. and **Abu Bakar F.** (2010). Detection and quantification of probiotic bacteria using optimized DNA extraction, traditional and real-time PCR methods in complex microbial communities. *African Journal of Biotechnology*. 9 :10, 1481-1492.

32. Huda-Faujan, N., Abdulmir, A.S., **Abu Bakar, F.**, Muhammad Anas, O. Shuhaimi, M. Yazid, A.M. and Loong Y.Y. (2010). The Impact of the Level of the Intestinal Short Chain Fatty Acids in Inflammatory Bowel Disease Patients Versus Healthy Subjects. *The Open Biochemistry Journal*. 4: 53-58.
33. Fouad Alsamak, F., Sahib Abdulmir A., Khalid Mahdi L., Alnaib K. and **Abu Bakar F.** (2010). Antimicrobial susceptibility, plasmid profiles, and RAPD-PCR typing of *Acinetobacter* bacteria. *Asian Biomedicine*. 4(6): 901-911
34. Sadeghifard, N, Salari, M.H, Ranjbar, R., Ghafouryan, S., Raftari., M, Abdulmir, A.S, and **Abu Bakar, F.** (2010). The clinical and environmental spread and diversity of toxigenic *Clostridium difficile* diarrhea. *Reviews in Infection*. 1(4):180-187
35. Ahmed S. Abdulmir, Rand R. Hafidh, and **Abu Bakar, F.** (2010). In Vitro Immunogenic and Immunostimulatory Effects of Zwitterionized 23-Valent Pneumococcal Polysaccharide Vaccine Compared With Nonzwitterionized Vaccine. *Current Therapeutic Research*. 71:1. 60-78.
36. **Abu Bakar, F.**, Abdulmir, A.S., Nordin, N and Yoke, T.S. (2010). Methods for Precise Molecular Detection of Probiotic Microflora: Using Adjusted Molecular Biology Protocols, Primer Sets and PCR Assays. (2010). *Biotechnology*. 9:1. 25-32.
37. Rand R. Hafidh, A.S. Abdulmir, Law Se Vern and **Abu Bakar, F.** (2010). The Inhibition of Human Pathogens: *Trichophyton rubrum* and *Trichoderma harzianum* by a Natural Product. *American Journal of Biochemistry and Biotechnology* 6 (1): 40-46.
38. Ang Swi See, Abu Bakar Salleh, **Abu Bakar, F.**, Nor Azah Yusof, Ahmed Sahib Abdulmir and Lee Yook Heng (2010). Risk and Health Effect of Boric Acid. *American Journal of Applied Sciences*. 7(5): 620-627
39. Ahmed S Abdulmir, Rand R Hafidh and **Abu Bakar, F.** (2010). Molecular detection, quantification, and isolation of *Streptococcus gallolyticus* bacteria colonizing colorectal tumors: inflammation-driven potential of carcinogenesis via IL-1, COX-2, and IL-8. *Molecular Cancer*., 9:249
40. Abdulmir, A.S. Rand Hafidh, **Abu Bakar, F.** and Kassim Abas. (2010). Novel Epstein-Barr virus immunoglobulin G-based approach for the specific detection of nasopharyngeal carcinoma. *American Journal of Otolaryngology*. 31(6):410-417.
41. Fouad Alsamak, F., Sahib Abdulmir A., Khalid Mahdi L., Alnaib K. and **Abu Bakar F.** (2010). Association of *Helicobacter pylori* with colorectal cancer development. *Asian Biomedicine*. 4(4): 609.
42. Khoshraftar, E., Anvari, H.M., Abdulmir A.S. and **Abu Bakar, F.** (2010). Comparative Study on the Effectiveness of Acetaminophen and Diclofenac Pretreatment in the Relief of Acute Pain after Out-Patient Surgery. *European Journal of Dentistry and Medicine*. 2(1).
43. Pakzad, I. A., Rezaee, M.J. Rasaee, A.Z. Hosseini, B. Tabbarae, S. Ghafurian, A.S. Abdulmir, **Abu Bakar, F.**, (2010). Novel Approach of Vaccination against *Brucella abortus* 544 based on a Combination of Fusion Proteins, Human Serum Albumin and *Brucella abortus* Lipopolysaccharides. *Journal of Biological Sciences*. 10(8):2282-2288.
44. Akanbi Olesusan, Azura, .L., **Abu Bakar, F.**, Sheikh Abdul Hamid, N., Son Radu and Nazamid Saari, (2009) Phenotypic and molecular identification of a novel thermophilic *Anoxybacillus species*: a Lipase-producing bacterium isolated from a Malaysian hot spring. *World Journal of Microbiology and Biotechnology*. 25:11. 1981-1988.
45. Abdulkarim, S.M., **Abu Bakar, F.**, and Anderson, J. G. (2009). Effect of salt concentration on the growth of heat stressed and unstressed *Escherichia coli*. *International Journal of Food, Agriculture and Environment*. 7:(3&4). 51-54
46. Hajeb, P., Jinap, S, Ismail, A., **Abu Bakar, F.**, Jamilah, B., and Abdul Rahim, M. (2009). Assessment of mercury level in commonly consumed marine fishes in Malaysia. *Food Control*., 20(1). 79-84
47. Ahmed S Abdulmir, Rand R Hafidh, Layla K Mahdi, Tarik Al-jeboori and **Abu Bakar, F.** (2009). Investigation into the controversial association of *Streptococcus gallolyticus* with colorectal cancer and adenoma. *BMC Cancer* 2009, 9:403
48. Raftari Mohammad, Azizi Jalilian, F, Abdulmir, A.S., Son Radu, Zamberi S and **Abu Bakar, F.** (2009). Practical and Novel Sterilization Approach for the Pathogenic *Staphylococcus aureus* Bacteria. *American Journal of Infectious Diseases*. 5(4): 301-307.
49. Wan Norhasima W. Marizam, Abdulmir, A.S. **Abu Bakar, F.** and Son, R. (2009). The Health and Toxic Adverse Effects of *Fusarium* Fungal Mycotoxin, Fumonisin, on Human Population. *American Journal of Infectious Diseases*. 5(4): 280-288.
50. Norliana, S., Abdulmir, A. S., **Abu Bakar, F.**, and Salleh, A.B. (2009). The Health Risk of Formaldehyde to Human Beings. *American Journal of Pharmacology and Toxicology*. 4(3):48-66.

51. Raftari, M, Azizi Jalilian, F., . Abdulmir, A.S., Son, R., Sekawy, Z and **Abu Bakar., F.** (2009). Effect of organic acids on *E. coli* 0157:H7 and *Staphylococcus aureus* contaminated meat. *Open Microbiology Journal* 3(4):156-165.
52. Abdulmir, A.S., Kadhim, H.S., Hafidh , R.R., **Abu Bakar, F.** and Abbas, K.A. (2009). Severity of Asthma: The Role of CD25+, CD30+, NF-KB, and Apoptotic Markers. *Journal of Investigation Allergol Clinical Immunology*, 19(3): 218-224.
53. Raftari, M, Azizi Jalilian, F., . Abdulmir, A.S., Son, R., Sekawy, Z and **Abu Bakar., F.,** (2009). Novel Approaches of *E. coli* 0157:H7 Decontamination. *Research Journal of Medical Sciences* 3(4):158-162.
54. Farrah Wahida Othman Ali, Nazamid Saari, **Abu Bakar, F.,** A.S. Abdulmir, Abdulkarim Sabo Mohammed, Yazid Abdul Manap and Anwarul Hidayah Zulkifli. (2009). Novel, Practical and Cheap Source for Isolating Beneficial X-Aminobutyric Acid –producing *Leuconostoc* NC5 Bacteria. *Research Journal of Medical Sciences* 3(4):146-153).
55. Willy Pranata Widjaja, A.S. Abdulmir, Nazamid B. Saari, **Abu Bakar, F.** and Zamri B. Ishak (2009). Fatty Acids Profile of Tropical Bagridae Catfish (*Mystus nemurus*) During Storage. *American Journal of Food Technology*. 4(39).
56. Suwaibah Ghaffar, Abdulmir AS, **Abu Bakar, F.,** Roselina Karim and Nazamid Saari. (2009). Microbial Growth, Sensory Characteristic and pH as Potential Spoilage Indicators of Chinese Yellow Wet Noodles from Commercial Processing Plants. *American Journal of Applied Sciences* 6(6): 1059-1066.
57. Muhammad Zukhrufuz Zaman, A.S. Abdulmir, **Abu Bakar, F.,** Jinap Selamat and Jamilah Bakar. (2009). A Review: Microbiological, Physicochemical and Health Impact of High Level of Biogenic Amines in Fish Sauce. *American Journal of Applied Sciences* 6(6): 1199-1211, 2009.
58. **Ahmed S Abdulmir, Rand R Hafidh , Haider S Kadhim** and **Abu Bakar, F.** (2009). Tumor markers of bladder cancer: the schistosomal bladder tumors versus non-schistosomal bladder tumors. *Journal of Experimental & Clinical Cancer Research*, **28:1** 27.
59. Hafidh, R.R., Abdulmir, A. S., Jahanshiri, F., Abas, F., **Abu Bakar, F** and Sekawi, Z. (2009). Asia is the Mine of Natural Antiviral Products for Public Health. *The Open Complementary Medicine Journal*.1, 58-68.
60. Abdulmir; A. S., Rand Riadh Hafidh and **Abu Bakar, F.** (2009). Different inflammatory mechanisms in lungs of severe and mild asthma: crosstalk of NF-kappa-B, TGFβ1, Bax, Bcl-2, IL-4 and IgE. *Scandinavian Journal of Clinical and Laboratory Investigation*. 69(2):1-9.
61. Willy Pranata Widjaja, A.S. Abdulmir, **Abu Bakar, F.,** Nazamid B. Saari, Zamri B. Ishak and A. Abdul Hamid (2009). Lipid Quality Deterioration of Tropical Bagridae Catfish (*Mystus nemurus*) During Storage. *Research Journal of Biological Sciences*. 4(4): 525-530
62. Nur Indang, M., Abdulmir, A.S., **Abu Bakar, F.** Salleh, A.B. Lee Y. H. and Nor Azah. Y. (2009). A Review: Methods of Determination of Health-Endangering Formaldehyde in Diet. *Research Journal of Pharmacology*. 3(2):31-47.
63. Rand H.Hafidh, Faridah Abas, Ahmed S. Abdulmir, Fatemeh Jahanshiri, **Abu Bakar, F.** and Zamberi Sekawi. (2009). A Review: Cancer Research of Natural Products in Asia. *International Journal of Cancer Research*. 5(2): 69-82.
64. Suzita, R. Abdulmir, A.S. **Abu Bakar, F.** and Son, R. (2009). A Mini Review: Cholera Outbreak via Shellfish. *American Journal of Infectious Diseases* 5(1): 40-47, 2009
65. Hafidh, R.R., Abdulmir, A. S., **Abu Bakar, F.,** Abas, F., Jahanshiri, F., and Sekawi, Z. (2009). Antioxidant Research in Asia in the Period from 2000-2008. *American Journal of Pharmacology and Toxicology*. 4(3):48-66.
66. Hajeb, P., Jinap, S, **Abu Bakar, F.,** Jamilah, B., Lioe, H and Ismail, A. (2009). Optimising conditions for methyl mercury extraction in fish samples for GC analysis using surface response methodology. *TFAC: Food Additives and Contaminants*. 227(5). 1349-1355
67. Hussin, M., Hamid, A.A., Mohamad, S., Saari, N, **Abu Bakar, F** and Dek, S.P. (2009). Modulation of Lipid Metabolism by Centella Asiatica in oxidative stress rats. *Journal of Food Science*, 74 (2) 72-78.
68. Mohd Zainol, M.K., Abdul-Hamid A., **Abu Bakar, F.** and Pak Dek, S. (2009). Effect of drying methods on the degradation of selected flavanoids in Centella asiatica. *International Food Research Journal*. 16:4. 531-537.
69. **Abu Bakar, F.,** Salleh, A.B., Razak, C.N. A., Basri., Ching, M. K. and Son, R (2008). Biochemical Changes of Fresh and Preserved Freshwater Prawns (*Macrobrachium rosenbergii*) during storage. *International Food research Journal*. 15(2):183-193.

70. **Abu Bakar, F.**, Salleh, A.B., Razak, C.N. A., Basri., Ching, M. K. and Son, R (2008). Microbiological Changes of Freshwater Prawns (*Macrobrachium rosenbergii*) during storage. *International Food research Journal*. 15(3):95-106.
71. Chai, L.C., Lee, H.Y., **Abu Bakar, F.**, Ghazali, F.M., Malakar, P.M., Nakaguchi, Y., Nishibuchi, M. and Son, R. (2008). Simulation of cross-contamination and decontamination of *Campylobacter jejuni* during handling of contaminated raw vegetables in a domestic kitchen. *Journal. Of Food Protection*. 71(12):2448-2452.
72. Haryani, Y., Noorzaleha, A.S., **Abu Bakar, F.**, Noorjahan, B.A., Patrick, G.B. and Son Radu. (2008). Characterization Of Malaysian isolates of *Klebsiella Pneumoniae* from Street Foods. *ASEAN Food Journal*, 15:1. 59-66.
73. Hajeb, P., Jinap, S, **Abu Bakar, F.**, Jamilah, B. and Ismail, A. (2008). Hair mercury level of coastal communities in Malaysia: A linkage with fish consumption. *European Food Research and Technology*. 227(5). 1349-1355
74. Abdulamir, A., Hafidh, R., **Abu Bakar, F.**, and Abas, K. (2008). The distinctive profile of risk factors of nasopharyngeal carcinoma in comparison with other head and neck cancer types. *BMC Public Health* 8(400). 1471-2458.
75. Abdulamir, A., Hafidh,R., **Abu Bakar, F.**, and Abas, K. (2008) . Changing survival, memory cell compartment, and T-helper balance of lymphocytes between severe and mild asthma. *BMC Immunology*. 9(73). 1471-2172
76. Abdulamir, A., Hafidh,R., Mahdi, L.K., Al-jeboori, T.R. **Abu Bakar, F.**, and Abas, K. (2008) . The Interplay between p53 and p21 Tumor Suppressor Proteins in the Transformation of Colorectal Adenoma to Carcinoma. *American Journal of Immunology*. 4(1). 14-22.
77. Abdulamir, A., Hafidh, R., Abdulmuhaimen, N, **Abu Bakar, F.**, and Abas, K. (2008) . Better Understanding of the Immunosuppressive Link Between the Lymphocytic Immune Cells and the Decreased Cell Mediated Immunity in Head and Neck Cancer Patients. *American Journal of Immunology*. 4(1). 25-31.
78. Abdulamir, A., Hafidh,R., **Abu Bakar, F.**, and Abas, K. (2008). Investigation in the molecular events of transitional cell carcinoma of the bladder. *American Journal of Biochemistry and Biotechnology*. 4(4). 408-405.
79. Chai, L.C., **Abu Bakar, F.**, Ghazali, F.M., Lee, H.Y., Tunung, R., Shamsinar, A.T., Laila, R.A.S., Thahirah, A.Z., Malakar, P.M., Nakaguchi, Y., Nishibuchi, M. and Son, R. (2008). Biosafety of *Campylobacter jejuni* from Raw Vegetables Consumed as *Ulam* with Reference to their Resistance to Antibiotics. *International Food Research Journal*. 15(2):125-135.
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2. **Abu Bakar, F.**, Norliana Sharian and Salleh, A.B. (2010). Determination of formaldehyde in several selected fish during storage In Book of Abstract *ICFR2010 International Conference on Food Research 22-24 Nov 2010, Putrajaya Marriot. Pp79.*
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Other publications	<p>Patent/Commercialisation</p> <ol style="list-style-type: none"> 1. 1 patent filed through SIRIM BERHAD – work on An Antiviral Composition 2011 - PI201 1001615 2. 1 patent filed through United Kingdom patent office– work on Rapid detection of bacteria 2011- GB GCC No. 2011/19081 3. 1 patent filed through SIRIM BERHAD – work on An Antimicrobial Composition. 2011 - PI2011001616 4. 1 patent filed through SIRIM BERHAD – work An Anticancer Composition. 2011 - PI2011001617 5. 1 patent filed through SIRIM BERHAD – work on Enzyme-based Biosensor for determination of formaldehyde in fish. 2010 - PI2010003432 6. 1 patent filed through SIRIM BERHAD – work on Capacitance-based Biosensor for determination of histamine in fish. 2008 - PI20082613 7. 1 patent filed through SIRIM BERHAD – work on DNA-based Biosensor for determination <i>Trichoderma</i> sp. In soil 2010 - PI2010070069 8. 1 patent through SIRIM BERHAD – work on Amperometric Biosensor for determination of histamine in prawns. 2007 - PCT/MY2008/000019 9. 1 patent published through SIRIM BERHAD – work on Amperometric Biosensor for determination of histamine in prawns. – published- WO/2010/0096277 10. 1 patent filed through SIRIM BERHAD – work on Reduction of mercury levels in fish- 2009- PCT/MY/2009/000049, WO/2010/117254 11. 1 patent published through United Kingdom patent office– work on Methods for virus design 2010- WO/2010/064044 12. 1 Intellectual property as co-researcher for the project Thermostable food-grade lipase producing bacteria isolated from Malaysia hot springs and gene partial sequences deposited in Genbank Data Library: <ol style="list-style-type: none"> i) <i>Bacillus subtilis</i> strain ST8 16S rRNA gene partial sequence-accession number: DQ401073 ii) <i>Anoxybacillus kamchatkensis</i> strain ST7 16S rRNA gene partial sequence-accession number: DQ193516 iii) <i>Anoxybacillus flavithermus</i> strain KW12 16S rRNA gene partial sequence-accession number: DQ401072 iv) <i>Bacillus cereus</i> strain SY7 16S rRNA gene partial sequence-accession number: DQ401074

H. PROJEK PENYELIDIKAN – SEBAGAI KETUA PROJEK					
Project No.	Project Title	Role	Year	Source of fund	Status
6380100 International Grant	Development of phage technology for determination of food-borne pathogens	Project leader	2007	Arab Science and Technology Foundation ASTF	Completed
6714500	Determination of Alcohol in foods and drinks in Malaysia	Project leader	2009	Ministry of Health/JAKIM	Completed
5450482	Modelling of the Intoxication Studies of Alcohol containing fermented Foods	Project leader	2009	MOSTI	On-going till June 2012
91706	Biogenic amines production during modified atmosphere storage of fish and seafood	Project leader	2009	RUGS-UPM	On-going till September 2011
5524153	Novel starter culture for cheese manufacturing	Project leader	2011	MOHE	On-going
9300363	Antimicrobial properties of ciku fruits	Project leader	2011	RUGS-UPM	On-going