***Curriculum vitae***

**Personal Information**

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|  |  | **M.Sc (Molecular Microbiology)**  **Universiti Pertanian Malaysia 1993-1995** |
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**1.0 Research and Publication**

**1.1 Publication of Research Work**

1. **Book / Monograph**
2. Proceedings for the 3rd Malaysian International Seminar on Antarctica (MISA3). Editors. Ann Anton, Azizan Abu Samah & **Clemente Michael Wong Vui Ling** (Editors). 2009 Academy of Sciences Malaysia’s Publication. (ISSN 978-983-9445-31-2)
3. Shorts Communications in Biotechnology I. Jil. 1. Editors. Ann Anton, Vijay Kumar & **Clemente Michael Wong Vui Ling**. 2009. Universiti Malaysia Sabah Press. (ISBN 978-967-5224-18-8)
4. *Biotechnology Technical Report*. Volume 1. Editors. Ann Anton, Vijay Kumar & **Clemente Michael Wong Vui Ling**. 2007. Universiti Malaysia Sabah Press. (ISBN 978-983-2641-18-6)
5. Chapter in Book 2010. Deriving strategies to develop a stable high copy number expression plasmid vector for yeast *Saccharomyces* cerevisiae. Directory of Research Projects. Fundamental Research Grant Scheme Phase 1 2006. Applied and Pure Science. Ministry of Higher Education. Pg. 516-523. (ISBN 978-983-3663-46-0)

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1. **International Journal**
2. Lee, L. H., Cheah, Y. K., Shiran M. S., **Wong C.M.V.L.,** Nurul S. A. M., Son R., and Moreano H. A. 2011. Identification of actinomycete communities in Antarctic soil from Barrientos Island using PCR-denaturing gradient gel electrophoresis. Genetics and Molecular Research. *in press.* (ISI IF 1.013)
3. Chong, K.P., M.S. Lum, M.S., C.P. Foong, C.P., **Wong, C.M.V.L.,** Atong, M. and S. Rossall, S. 2011. First identification of *Ganoderma boninense* isolated from Sabah based on PCR and sequence homology. African Journal of Biotechnology. 10: 14718-14723. (ISI IF 0.573)
4. Neoh, W.F.J., Chong, K.L. **Wong, C.M.V.L.** and Lau, S.T.Y. 2011. Incidence of Malaria in the interior division of Sabah, Malaysian Borneo, based on nested PCR. Journal of Parasitology Research. DOI. 10.1155/2011/104284.
5. Krishnan A., Alias, S.A., **Wong, C. M. V. L.,** Pang, K.L. and Convey, P. 2011. Extracellular hydrolase enzyme production by soil fungi from King George Island, Antarctica. Polar Biology. 34: 1535-1542. (ISI IF 1.445)
6. **Wong, C. M. V. L. ,** Tam, H.K., Alias, S.A., González, M., Rocha, G.G. and Yévenes, M.D. 2011 *Pseudomonas* and *Pedobacter* isolates from King George Island (Antarctica) inhibited the growth of food−borne pathogens. Polish Polar Research. 32: 3-14. (ISI IF 0.767)
7. Foong, C.P, **Wong, C. M. V. L**. and Gonzalez, M. 2010. Metagenomic Analyses of the Dominant Bacterial Community in the Fildes Peninsula, King George Island (South Shetland Islands). Polar Science*.* 4: 263-273. (Scopus cited)
8. Kalavathy R., Abdullah, N. **Wong, C.M.V.L.,** Karuthan, C. and Ho, Y.W. 2009. Bile salt deconjugation and cholesterol removal from media by *Lactobacillus* strains used as probiotics in chickens. Journal of the Science of Food and Agriculture. **90**: 65–69. (ISI IF 1.386)
9. Nguyen, C. T., R., S., Raha, A. R., Lai, O. M. and **Wong, C.M.V. L.** 2009. Comparison of DNA Extraction Efficiencies Using Various Methods for the Detection of Genetically Modified Organisms (GMOs). International Food Research Journal.16: 21-30*.* (Scopus cited)
10. Kalavathy, R., Abdullah, N., Jalaludin, S., **Wong, C. M.V. L**. and Ho, Y.W. 2009. Effects of *Lactobacillus* Cultures on Performances of laying hens, and total cholesterol, lipid and fatty acid composition of egg yolk. Journal of the Science of Food and Agriculture. 89:482-486. (ISI IF 1.386)
11. Kalavathy, R., Abdullah, N., Jalaludin, S., **Wong, C. M.V. L.** and Ho, Y.W. 2008. Effect of *Lactobacillus* Cultures and Oxytetracycline on the Growth Performance and Serum Lipids of Chickens. International Journal of Poultry Science. 7 (4): 385-389.(ISI IF 0.833)
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# Nguyen, P.D., Ho, C.L., Harikrishna, J.A., Wong, C.M.V.L. and Raha A.R. 2007. Functional screening for salinity tolerant genes from *Acanthus ebracteatus* Vahl using *Escherichia coli* as a host. Trees - Structure and Function. 21: 515 - 520. (ISI IF 1.900)

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# Chan, P.K., Hirzun, M.Y., Wong, C.M.V.L and Harikrishna, K. 2006. Isolation And Characterization Of A Novel Pistil Predominant Gene That Binds Weakly To The Chitinase, Chi2;1 Promoter Of Tomato. Asia-Pacific Journal of Molecular Biology and Biotechnology. 14: 19-26. (Scopus cited)

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1. Lesley, M., Son, R., Bahaman, A.R., Raha, A. R., Napis. S., **Wong,** **C. M. V. L**., Tanil, G.B., and Nishibuchi, M. 2005. Detection of *Vibrio parahaemolyticus* in Cockle *Anadara granosa* by PCR. FEMS Microbiology Letters. 252:85-88. (ISI IF 2.199)
2. Aida, A. A., Che Man, Y. B., **Wong, C. M. V. L.,** Raha, A. R. and Son, R. 2005. Analysis of Raw Meats and Fats of Pigs Using Polymerase Chain Reaction for *Halal* Authentication. Meat Science. 69: 47-52. (ISI IF 1.954)
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11. **Wong, C.M.V.L.,** Scott-Drew, S.R.S, Hayes, M.J., and Murray, J.A.H. 2002. *RSC2*, Encoding a Component of the RSC Nucleosome Remodeling Complex, is Essential for 2μ Plasmid Maintenance in *Saccharomyces cerevisiae.* Molecular Cell Biology. 22: 4218-4229, (ISI IF 6.057)
12. Scott-Drew, S.R.S., **Wong, C.M.V.L.,** and Murray, J.A.H. 2002. DNA Plasmid Transmission in Yeast is associated with Specific Sub-nuclear Localization during Cell Division. Cell Biology International. *26*; 393-405. (ISI IF 1.80)
13. **Wong, M.V.L.**, Y.W. Ho, S.G. Tan, N. Abdullah and S. Jalaludin 1995. Isozymes and Morphological Characteristics of the Anaerobic Fungus *Piromyces mae* Isolated from Duodenum, Rumen and Faeces of Sheep. FEMS Microbiol. Letters. 134: 9-14. (ISI IF 2.199)
14. Ho. Y. W., **C.M.V.L. Wong.**  N. Abdullah, S. Jalaludin and H. Kudo 1995. Fermentation Activities of Some New Species of Anaerobic Rumen Fungi from Malaysia. Journal General Applied Microbiology 42. 51-59. (ISI IF 0.957)
15. **National Journal**
16. **Wong, C.M.V.L.,** Chung, H.H.,Aisyah, S.,Omar, S.Cheah, Y.K., and Maria de H.A. 2009. Antarctic Bacteria Inhibit The Growth Of Pathogens. ASM Journal. 3: 107-112.
17. Cheah, Y.K. Lee, L.H., Radu, S., **Wong, C.M.V.L.** and Andrade, H.M. 2009. Isolation and Rapid Identification of Streptomonospora, a Strictly Halophilic Filamentous Actinomyces from Antarctic Soil (Barrientos Island, Antarctic). ASM Journal. 3: 113-120.

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1. **Abstracts and Proceeding**

**International**

1. **Wong, C.M.V.L,** Tam, H.K. and Gonzalez, M. 2011. Bacterial isolates from the Fildes Peninsula inhibit the growth of food vorne pathogens. *In:* Proc. of the 5th Malaysian International Seminar on Antarctica (MISA5): Rapid warming in the Polar regions and its implication to the Pacific. 14-15th June 2011, Kuala Lumpur Convention Center (KLCC), Kuala Lumpur. Pp. 57.
2. Teo., J.K.C. and **Wong, C.M.V.L.** 2011. Bacterial diversity of the Schirmacher Oasis. *In:* Proc. of the 5th Malaysian International Seminar on Antarctica (MISA5): Rapid warming in the Polar regions and its implication to the Pacific. 14-15th June 2011, Kuala Lumpur Convention Center (KLCC), Kuala Lumpur. Pp. 48.
3. Boo, S.Y., **Wong, C.M.V.L.** and Nazalan, N.2011. Characterization of an Antarctic yeast, *Leucosporidium antarcticum.* *In:* Proc. of the 5th Malaysian International Seminar on Antarctica (MISA5): Rapid warming in the Polar regions and its implication to the Pacific. 14-15th June 2011, Kuala Lumpur Convention Center (KLCC), Kuala Lumpur. Pp. 41
4. Krishna, A., Alias, S.A., **Wong, C.M.V.L.,** Pang, K.L. and Convey, P. 2011. Hydrolase enzymes from psychrotolerant and psychrophilic soil fungi from King George Island, Antarctica. *In:* Proc. of the 5th Malaysian International Seminar on Antarctica (MISA5): Rapid warming in the Polar regions and its implication to the Pacific. 14-15th June 2011, Kuala Lumpur Convention Center (KLCC), Kuala Lumpur. Pp. 42.
5. **Wong, C.M.V.L,** Foong C.P.and Gonzalez, M. 2010. PCR-DGGE Analysis of the Bacterial Diversity of Lake Sediments in the Fildes Peninsula. *In:* Proc. of the 4th SCAR Open Science Conference: Witness to the Past and Guide to the Future”, 3-6 August 2010, Buenos Aires. Pp. 842.
6. Krishnan, A., Alias, S. A., **Wong, C.M.V.L**. and Convey, P. 2010. Hydrolase enzymes from psychrotrophic and psychrophilic soil fungi from King George island, Antarctica. *In:* Proc. of the 4th SCAR Open Science Conference: Witness to the Past and Guide to the Future”. 3-6 August 2010, Buenos Aires. Pp. 413.
7. **Wong, C.M.V.L,** Tam, H.K. and Gonzalez, M. 2009. Antibiotic-resistant strains of Antarctic bacteria from the Deception and King George Islands. *In:* Proc. of the “10th SCAR International Biology Symposium”. 26-31 July 2009, University of Hokkaido, Sapporo, Japan. Pp. 104.
8. Foong C.P., **Wong, C.M.V.L.** and Gonzalez, M. 2009. 16S rDNA PCR-DGGE analyses of dominant soil bacterial community in lakes of the Fildes Peninsula, King George Island. *In:* Proc.of the “10th SCAR International Biology Symposium”. 26-31 July 2009, University of Hokkaido, Sapporo, Japan. Pp. 71.
9. Foong C.P., **Wong, C.M.V.L,** Cheah, Y.K., Gonzalez, M., Gonzalez-Rocha, G. and Domínguez-Yévenes, 2009. Applicationof PCR-DGGE to study the soil bacterial community of the King George Island. *In:* Proc. of the 4th Malaysian International Seminar on Antarctica (MISA4): Legacy of IPY to the Tropics. 1-3 April 2009, Petaling Jaya, Malaysia. Pp. 45.
10. Tam, H.K., **Wong, C.M.V.L.** and Gonzalez, M 2009. Plasmid incidence in bacteria from Antarctic Bacteria. *In:* Proc. of the 4th Malaysian International Seminar on Antarctica (MISA4): Legacy of IPY to the Tropics. 1-3 April 2009, Petaling Jaya, Malaysia. Pp. 40.
11. Cheah, Y.K., Lee, L.H., Shiran, M.S. Hernan, M.A. **Wong, C.M.V.L,** Nurul, S.M. and Radu, Son. 2009. Isolation and rapid identification of *Streptomonospora* from Antarctic soil (Barrientos Island, Antarctic). *In:* Proc.of the 4th Malaysian International Seminar on Antarctica (MISA4): Legacy of IPY to the Tropics. 1-3 April 2009, Petaling Jaya, Malaysia. Pp. 66.
12. **Wong, C.M.V.L,** Tam, H.K., Gonzalez, M, Gonzalez-Rocha, G., Domínguez-Yévenes, M. and Alias, S.A. 2008. “Antarctic bacteria exhibits antimicrobial activities against food borne pathogens”, *In:* Proc.of the IV Simposio Latino sobre Investigacion Antartica. 3 – 5 Sept 2008, Valparaiso, Chile. Pp. 44 - 47.
13. **Wong, C.M.V.L,** Tam, H.K., Gonzalez, M, Gonzalez-Rocha, G., Domínguez-Yévenes, M. and Cheah, Y.K. 2008. Characterization of Bacteria from King George Island, Antarctica Peninsula with special reference to their anti-microbial activities. *In:* Proc. of the 3rd SCAR/IASC IPY Open Science Conference. 8-11 July 2008. St. Petersburg, Russia. Pp. 442.
14. Alias, S.A., Omar, S., Smykla, J., Krishnan, A., Chin, Y.M., Idid, M.R., **Wong, C.M.V.L.,** Moreano, H. and Guerra, M. (2008). Diversity of soil microfungi in continental and maritime Antarctic. *In:* Proc. of the 3rd SCAR/IASC IPY Open Science Conference. 8-11 July 2008. St. Petersburg, Russia. Pp. 443.
15. **Wong, C.M.V.L,** Yong, H.Y. and Tam, H.K. 2007. Mannan-Degrading bacteria from the Antarctic and the tropic. *In:* Proc. of the 11th International Congress for Culture Collections: Connecting Between Collections. 7-11 October 2007, Goslar Germany. Pp. 87-89.
16. **Wong, C.M.V.L.**, E. Remi and S.Y.L. Lau 2007. Bioprospecting for Microorganisms with Capabilities to Degrade Fibrous Materials in Palm Kernel Cake. *In:* Proc of the KRIBB Conference: Bioresource-Based Biotechnology. 17 May 2007, Jeongup, South Korea. Pp. 10.
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18. Lau, S.Y.L., **C.M.V.L. Wong,** E. Remi, Sahilah A. M. Janaun, J. and Anton, A. 2007. Yeast and Fungi of Potential for Bioconversion of Palm Kernel Cake to Poultry Feed. *In:* Proc. of the KRIBB Conference: Bioresource-Based Biotechnology. 17 May 2007, Jeongup, South Korea. Pp. 8 – 9.
19. **Wong, C.M.V.L**, Tam, H.K., Gonzalez, M, Gonzalez-Rocha, G.and Dominguez-Yevenes, M. 2007. Bacteria from King George Island produce anti-microbial compounds that inhibit the growth of food-borne pathogens. *In:* Proc. of the 3rd Malaysian International Seminar on Antarctica. 21-22 March 2007, Le Meridian Hotel, Kota Kinabalu, Sabah. Pp. 107-108.
20. Chee, J.A., **Wong, C.M.V.L.** and Lim B.C. 2007. Isolation and Characterization of Bacteria from Soils Collected from the Schirmacher Oasis, Antarctica. *In:* Proc. of the 3rd Malaysian International Seminar on Antarctica. 21-22 March 2007, Le Meridian Hotel, Kota Kinabalu, Sabah. Pp. 72.
21. Cheah, Y.K., Suhaila, O, Masdialily, D., Siti Aisyah, A., **Wong, C.M.V.L.,** Nazalan, N., Wan Maznah, W.O., Son Radu, Marie de L.G. and Hernan, M.A. 2007. Expedition to Pedro Vicente Maldonado Station to study the biodiversity of fungi, bacteria and nitrogen fixing microbes. *In:* Proc. of the 3rd Malaysian International Seminar on Antarctica. 21-22 March 2007, Le Meridian Hotel, Kota Kinabalu, Sabah. Pp. 81.
22. **Wong, C.M.V.L,** Tam, H.K., Wong, F.Y. and Radu, S. 2006. Bacterial Diversity of the Schirmacher Oasis, Antarctica. *In:* Proc. of the Symposium entitled Poles Apart: Nurturing Global Environment Aspects PANGEA-2006. April 10-14. Punta Arenas, Chile. Pp. 21.
23. **Wong, C.M.V.L,** Radu, S. Tam, H.K. and Wong, F.Y. 2006. Origin and Phylogeny of Bacteria Living in Permanent Antarctic Lake Ice and Soils. *In:* Proc. of the 2nd SCAR Open Science Conference on Antarctica in the Earth System”. 9-14 July 2006, Hobart, Australia. Pp. 420.
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2. Wong, C.**,** Lesley, M, Son, R. Kasing, A, Raha, A.R., Rusul, G., Nishibuchi, M. and **Wong, C.M.V.L.** 2002. Isolation and Molecular Characterisation of *Listeria monocytogenes* and *Listeria innocua* from Poultry Meat. *In:* Proc. of the Xth International Congress of Bacteriology and Applied Microbiology. 27 July to 1 August 2002, Paris, France. Pp. 308.
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4. **Wong, C.M.V.L.,** Scott-Drew, S.R.S, Hayes, M.J. and Murray, J.A.H. 2001. Analysis of the Segregation Mechanism of the 2μ Plasmid in *Saccharomyces cerevisiae. In:* Proc. of the XXth International Conference on Yeast Genetics and Molecular Biology. 26-31 August 2001. Prague, Czech Republic. Pp 13.
5. **Wong, C.M.V.L**., Hayes, M.J., Scott-Drew, S. and Murray, J.A.H. 2000. *RSC2*, a Component of the RSC Complex is required for 2μ Plasmid Maintenance in *Saccharomyces cerevisiae.* *In:* Proc. of the Chromatin Structure and Function, 12-18 February 2000. Durango, Colorado. Pp. 76.
6. **Wong, M**., Scott-Drew, S. and Murray, J.A.H. 2000. GFP-labelled 2μ Plasmid is Tightly Associated with the Chromatin. *In:* Proc. of the British Yeast Group Meeting, 25-27 March 2000. University of Aberdeen. Pp. 32.
7. **Wong, C.M.V.L**., Scott-Drew, S. and Murray, J.A.H. 1999. The 2μ Plasmid Segregation Proteins, Rep1p and Rep2p Co-localise with Plasmid Carrying the STB Sequence in *Saccharomyces cerevisiae*. 25-30 May 1999, Rimini, Italy. Current Genetics. 35(3): 345.
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9. **Wong, M.V.L.**, Y.W. Ho, N. Abdullah, H. Kudo and S. Jalaludin. 1996. Isolation of *Ruminococcus flavefaciens* from the Rumen of a Mousedeer and Cloning of Its Endoglucanase Gene. *In:* Proc. of Satellite Symposium of 8th Animal Science Congress of AAAP, 20-21 October 1996, Kyoto, Japan, Pp.20.

**National**

1. Koh, J.S.P. and **Wong, C.M.V.L**. 2010. Construction of a gene knockout system for *Leucosporidium antarcticum*. *In:* Proc. of the Biotechnology Simposium IV. 1-3 December 2010, Biotechnology Research Institute, Universiti Malaysia Sabah. Pp. 79.
2. Yip, K.M. and **Wong, C.M.V.L.** 2010. Characterization of Antarctic and tropical bacteria with novel bioactive compounds. *In:* Proc. of the Biotechnology Simposium IV. 1-3 December 2010, Biotechnology Research Institute, Universiti Malaysia Sabah. Pp. 116.
3. Boo, S.Y., **Wong, C.M.V.L.** and Najimuddin, N. 2010. *In:* Proc. of the Biotechnology Simposium IV. 1-3 December 2010, Biotechnology Research Institute, Universiti Malaysia Sabah. Pp. 49.
4. **Wong, C.M.V.L.** andSon, R. 2005. Novel bacteria from the Schirmacher Oasis in Antarctica. *In:* Proc. of the 27th Malaysian Microbiology Society. 24 – 27 Nov 2005. Grand Plaza Park Royal Penang. Pp. 20-21.
5. **Wong, C.M.V.L.** andSon, R. 2005. Bacterial diversity of the Schimacher Oasis in Antarctica. *In:* Proc. of “Antarctica Research”. 27-29 June 2005, Universiti Malaya, Kuala Lumpur. Pp. 25.
6. **Wong, C.M.V.L.,** Son, R. and Kumar, V. 2005. Meat ID Kit: A Kit for meat species identification and Halal authentication. *In:* Abstracts of the IPTA R&D Expo 2005. Pp. 121.
7. **Wong, C.M.V.L.,** Lee, C.M., Radu, S. and Sieo, C.C. 2004. Analysis of Genes that Affect the Stability of the 2µ Plasmid in Yeast *Saccharomyces cerevisiae*. *In: Proc.* of the 7th National Biology Symposium, 18-20 May 2004, Awana Genting Highlands, Selangor, Malaysia. Pp. 481-482.
8. **Wong, C. M. V. L.,** Teng, K. S. and Son, R. 2004. Phylogenetic Analysis of Prawn from Malaysia. *In: Proc.* of the 14th Scientific Meeting of Malaysian Society for Molecular Biology and Biotechnology: Advancement of Biotecnhology. 19-21 July 2004, Century Mahkota Hotel, Melaka. Pp. 107.
9. **Wong C.M.V.L,** Chua, H.K., Son, R., Aida A.A., Yaakob C.M. and Raha A.R 2004. Analyses of Raw Meats and Fats Using Molecular Techniques for Halal Authentication*. In:* Proc. of the International Seminar on Halal Food and Products: Challenges and Prospects in Global Market. 28-30 September 2004, Mariott Hotel, Putrajaya, Malaysia. Pp. 1-4.
10. Wong, C.M.V.L., Chan, K.L., Cheah, Y.K. and Radu, S. 2003. Characterization of *Staphylococcus aureus* Isolated From the Pus of Patients in Miri Hospital, Sarawak. *In:* Proc. of the 7th Symposium of Applied Biology: Advancing Bioindustry, Challenges and Opportunities of Applied Biology. Malaysian Society of Applied Biology. 3-4th June 2003. Mines Beach Resort & Spa, Seri Kembangan, Selangor.  Pp. 52-53.
11. **Wong, C.M.V.L.,** Ling, L.Z, Sieo, C.C. and Radu, S 2003. Determination of Various Molecular Tools in Their Ability to Discriminate *Staphylococcus aureus* Isolated from Various Types of Lesions. *In:* Proc. of the 13th Scientific Meeting of Malaysian Society for Molecular Biology and Biotechnology: The Fourth Revolution, 19-21 May 2003, Putrajaya Marriot Hotel, Putrajaya, Malaysia. Pp. 30.
12. **Wong, C.M.V.L.,** Chua, H.K., Cheah, Y.K. and Radu, S. 2003. Identification of Meat through Polymerase Chain Reaction - Restriction Fragment Length Polymorphism PCR-RFLP Analyses. *In:* Proc. of the 13th Scientific Meeting of Malaysian Society for Molecular Biology and Biotechnology: The Fourth Revolution, 19-21 May 2003, Putrajaya Marriot Hotel, Putrajaya, Malaysia. Pp. 82.
13. **Wong, C.M.V.L**., Cheah, Y.K., Radu, S. and Gulam, R. 2002. Genetically Modified GM Food: Detection and Labeling. *In:* Proc. of the Malaysian Society for Molecular Biology and Biotechnology. 22-24 May 2002, Regency Saujana, Subang Selangor. Pp. 83.
14. **Wong, C.M.V.L.** and Son R. 2002. Construction of a *Saccharomyces cerevisiae* – *Escherichia coli* Shuttle Plasmid. *In:* Proc. of the 25th Malaysian Microbiology Society. 8-11 September 2002, Kota Baharu, Kelantan. Pp. 31
15. **Wong, C.M.V.L.**, Y. Kobayashi, M. Wakita, S. Hoshino, N. Abdullah, S. Jalaludin and Y.W. Ho 1997. Transformation Efficiency of a Plasmid Containing a Xylanase Gene in Strict Anaerobic Rumen Bacteria *Butyrivibrio fibrisolvens* by means of Electroporation. *In:* Proc. of the 22nd Annual Conference, Malaysian Society for Biochemistry and Molecular Biology. 28-29 October 1997, Bangi. Pp. 44.

1. **Wong, C.M.V.L.**, Y. Kobayashi, T. Gotoh, M. Wakita, S. Hoshino, N. Abdullah, S. Jalaludin and Y.W. Ho 1997. Introducing a New Gene into *Butyrivibrio fibrisolvens* Strain OB156c by Using Plasmid Vector pYK7. *In:* Proc. of the 19th Malaysian Society of Animal Production MSAP Annual Conference 8 –10 September, 1997, Johor Bahru, Johor, Malaysia. Pp. 222-223

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1. **Research Grant**

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| 1. **International**  |  |  |  | | --- | --- | --- | | Year | Title of Project | Source | | 2004 - 2008 | Isolation and Cloning of Mannanase Genes from Mannanase-Producing Microorganisms for the Treatment of Palm Kernel Cake (PKC)  Kod UMS: 95500-59 | United Nation Development Fund- KRIBB |  1. **National**  |  |  |  | | --- | --- | --- | | Year | Title of Project | Source | | 2009 -2011 | System biology of a psychrophilic yeast for novel biotechnology | Top down Science Fund (MOSTI) USM, UMS, UTM and UKM (Co- Researcher) | | 2007 - 2009 | Bioconversion of Palm Kernel Cake (PKC) to Value Added Feed Using Fibrolytic Bacteria and Fungi | Science Fund (MOSTI) (Project Leader) | | 2007-2009 | Development of Methods Based on Real-Time Polymerase Chain Reaction(PCR) For The Authentication of Raw and Processed Meats | Science Fund (MOSTI) (Project Leader) | | 2007 - 2009 | Deriving strategies to develop a stable high copy number expression plasmid vector for yeast, *Saccharomyces cerevisiae* | Fundamental Research Grant Scheme(FRGS-MOHE) (Project Leader) | | 2006 – 2010 | Studies On Psychrophiles from Antarctica and Arctic with Special Reference to Their Anti-microbial And Enzyme Activities | Antarctic Research Grant (Academy of Science, Malaysia) (Project Leader) | | 2002 - 2004 | Characterization of the 2-micron Plasmid of Yeast *Saccharomyces cerevisiae* and Construction of a High Copy Number Expression Plasmid ( | Intensifying Research in Priority Areas (MOSTI) (Project Leader) | | 2002 - 2005 | Cloning and Characterization of Novel Phytase Genes from *Mitsuokella* sp. | Intensifying Research in Priority Areas (MOSTI) (Project Leader) | |

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1. **University**

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| 2004 - 2007 | Isolation and Cloning of Mannanase Genes from Mannanase-Producing Microorganisms for the Treatment of Palm Kernel Cake (PKC) | Fundamental Research Fund (UMS) (Project Leader) |
| 2004-2005 | Pembangunan teknik molecular berasaskan jujukan DNA sitokrom B mitokondria untuk pengenalpastian identity daging tidak halal dalam makanan berasaskan daging | Fundamental Research Fund (UMS) (Project Leader) |

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1. **Consultation**

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| **Duration** | **Organization** | **Tasks** |
| 30 Mac 2011 – 28 Feb 2012. | International Medical University (IMU) | External Examiner for the for Bachelor of Science (Honours), Biomedical Science and Medical Biotechnology |
| 2008~now | Ministry of Science, Technology and Innovation, Malaysia  (MOSTI) | Technical Committee of the KnowledgeGRID Malaysia |
| 2004 - 2007 | Food Safety and Quality Division, Ministry of Health (MOH), Malaysia | Consultation for the project entitled “Risk Microbiological Assessment, Title: Risk Assessment of *Vibrio parahaemolyticus* in Black Tiger Prawn (*Penaeus monodon*)”  Funding |
| 2004 - 2005 | Institute for Development Studies (IDS), Sabah | Consultation for the project entitled “Sabah Biotechnology Action Blueprint” |
| 2005 - 2007 | MIMOS, Kuala Lumpur | Consultation for the project entitled “Bioinformatic Technology Road Mapping”, |
| Since 2009 | Universiti Malaysia Sabah Malaysia | Scientific Editor of the Journal of Tropical Biology and Conservation |

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1. **Academic Conference/Symposium**

**A. International Conference**

**As Invited speaker (International)**

1. **Keynote presentation for the paper entitled** “Advances in Biotechnology Research”. Engineering and Science International Conference: Progress in Science and Engineering for Sustainable Development, Curtin University of Technology. 24-25 November 2009. Miri, Sarawak, Malaysia. (Invitation by Curtin University)
2. **Invited speaker by the Chemistry Department of Malaysia.** Paper presented entitled “Detection of Genetically modified organisms in Food.” The International Symposium of Forensic Science and Environmental Health.” 10-11 November 2009 di Putra World Trade Center, Kuala Lumpur, Malaysia.
3. **Invited Speaker** by the Law Society of Malaysia. Paper presented entitled “**Biotechnology and Bioinformatics”** LawAsia IT Law Conference, 2004 Sabah.

**Oral Presenter (International - Argentina, Malaysia, Chile (3x), German, Japan, Korea)**

1. **Oral presenter for the paper entitled** “PCR-DGGE Analysis of the Bacterial Diversity of Lake Sediments in the Fildes Peninsula. The 4th SCAR Open Science Conference: Witness to the Past and Guide to the Future” from 3-6 August 2010, Buenos Aires, Argentina.
2. **Oral presenter for the paper entitled** “Antibiotic-resistant strains of Antarctic bacteria from the Deception and King George Islands.” The 10th SCAR International Biology Symposium”, 26-31 July 2009, University of Hokkaido, Sapporo, Japan.
3. **Oral presenter for the paper entitled** “Antarctic bacteria exhibits antimicrobial activities against food borne pathogens.” The IV Simposio Latino sobre Investigacion Antartica, 3 – 5 September 2008, Universidad De Santiago, Valparaiso, Chile.
4. **Oral presenter for the paper entitled** “Characterization of Bacteria from King George Island, Antarctica Peninsula with special reference to their anti-microbial activities. The 3rd SCAR/IASC IPY Open Science Conference. 8-11 July 2008. St. Petersburg, Russia.
5. **Oral presenter for the paper entitled** “Mannan-Degrading bacteria from the Antarctic and the Tropics.” The 11th International Congress for Culture Collections: Connecting between Collections. 7-11 October 2007. Goslar, Germany.
6. **Oral presenter for the paper entitled** “Bioprospect for Microorganisms with Capabilities to Degrade Fibrous Materials in Palm Kernel Cake.” Korean Research Institute of Bioscience and Biotechnology Conference 2007: Bioresources Based Biotechnology, 17 May 2007. Jeongeup, Korea.
7. **Oral presenter for the paper entitled** “Bacterial Diversity of the Schirmacher Oasis, Antarctica.” The PANGEA 2006 Symposium Poles Apart: Nurturing Global Environment Aspects. 10-14 April 2006, Punta Arenas, Chile.
8. **Oral presenter for the paper entitled** “Useful Bacteria from Antarctica.” De II Simposio Latinoamericano Sobre Investigaciones Antarticas y VI Reunion Chilena de Investigacion Antartica. 16 – 18 August 2006. Universidad de Concepcion, Concepcion, Chile.
9. **Oral presenter for the paper entitled** “Bioconversion of Palm Kernel Cake to Poultry feed” . International Conference on Chemical and Bioprocess Engineering. 14 - 15 Aug 2009. Novotel, Kota Kinabalu, Sabah.

**Oral Presenter (National)**

1. **Oral presenter for the paper entitled** “Detection of Genetically Modified Organisms.”The Seminar entitled “Current Issues of Genetically Modified Organisms (GMO)”. 11 August 2005, Universiti Malaysia Sabah.
2. **Oral presenter for the paper entitled** “Identification of Genes required for the Maintenance of the 2μ Plasmid in Yeast *Saccharomyces cerevisiae*.” The Seminar on Science and Technology” organized by the School of Science and Technology, Universiti Malaysia Sabah. 10 – 11 August, 2004. Hyatt Hotel, Kota Kinabalu, Sabah.
3. **Oral presenter for the paper entitled** “Identification of Meat through Polymerase Chain Reaction - Restriction Fragment Length Polymorphism PCR-RFLP Analyses.” The 13th Scientific Meeting of Malaysian Society for Molecular Biology and Biotechnology: The Fourth Revolution, 19-21 May 2003, Putrajaya Marriot Hotel, Putrajaya, Malaysia.
4. **Oral presenter for the paper entitled** “Construction of a *Saccharomyces cerevisiae* – *Escherichia coli* shuttle plasmid.” The 25th Malaysian Microbiology Society. 8-11 September 2002, Kota Baharu, Kelantan.
5. **Oral presenter** at the 2nd ASEAN-ILSI Training Workshop on Safety and Risk Assessment of Agriculture-Related GMOs. 20-22 August, Renaissance, Kuala Lumpur Hotel, Malaysia.
6. **Oral presenter for the paper “**Bioinformatic.” The 1st Bioinformatics Roadmapping Workshop. 17 May 2005, Hotel Palm Renaissance, Putrajaya, Kuala Lumpur.

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**B. Organizer of Conference/Symposium**

**International**

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| **Year** | **Conference/Symposium** |
| 2011 | **Session Chairman.** The 5th Malaysian International Seminar on Antarctica. 14-15th June 2011, Kuala Lumpur Convention Center (KLCC), Kuala Lumpur. |
| 2010 | **Secretary.** The 5th Malaysian International Seminar on Antarctica (MISA5).” Kuala Lumpur Convention Center (KLCC), 3 – 4th June 2011, Kuala Lumpur. |
| 2009 | **Session Chairman.** The 4th Malaysian International Seminar on Antarctica (MISA4), 1-3rd April 2009, Kuala Lumpur. |
| 2009 | **Rapporteur.** Conference of Global Food Security, The role of Science and Technology. 17-18 Feb 2009. Kota Kinabalu, Sabah. |
| 2008-09 | **Committee members of the Outreach programme,** The 4th Malaysian International Seminar on Antarctica (MISA4), 1-3rd April 2009, Kuala Lumpur. |
| 2008 | **Session Chairman.** IV Simposio Latino sobre Investigacion Antartica. 3 – 5 Sept 2008, Valparaiso, Chile. |
| 2008-09 | **Deputy Chief of the Scientific Committee**. The 4th Malaysian International Seminar on Antarctica (MISA4)”, 1-3rd April 2009, Kuala Lumpur. |
| 2007 | **Treasurer.** Biotechnology R&D and Business Partnering Forum. 26th October 2007, Hotel Promenade, Kota Kinabalu, Sabah. |
| 2007 | **Session Chairman.** The 3rd Malaysian International Seminar on Antarctica (MISA3).” Universiti Malaysia Sabah, 22-23rd March 2007, Kota Kinabalu, Sabah. |
| 2007 | **Secretary.** The 3rd Malaysian International Seminar on Antarctica (MISA3).” Universiti Malaysia Sabah, 22-23rd March 2007, Kota Kinabalu, Sabah. |
| 2002 | **Chairman (local host).** The Asia-Europe Meeting (ASEM) Workshop on Agrofood Bioethics, European Federation of Biotechnology. Palace of the Golden Horses Hotel, Kuala Lumpur. |

**National**

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| Year | Conference/Symposium |
| 2011 | **Co- Chairman.** Majlis Syarahan Perdana Professor Dr. Ann Anton. 8 June 2011, Recital Hall, UMS. |
| 2010 | **Session Chairman.** The 4th Biotechnology Symposium.” 1 – 3rd December 2010, Biotechnology Research Institute, Universiti Malaysia Sabah. |
| 2010 | **Secretary.** The 4th Biotechnology Symposium.” 1 – 3rd December 2010, Biotechnology Research Institute, Universiti Malaysia Sabah. |
| 2010 | **Member of the Scientific Committee.** The 4th Biotechnology Symposium.” 1 – 3rd December 2010, Biotechnology Research Institute, Universiti Malaysia Sabah. |
| 2009 | **Co- Chairman.** Polymerase Chain Reaction Workshop. 30-31st October 2009, Biotechnology Research Institute, Universiti Malaysia Sabah. |
| 2006 | **Secretary.** The 3rd Biotechnology Symposium.” 29th Nov- 1 December 2006, Biotechnology Research Institute, Universiti Malaysia Sabah. |
| 2006 | **Agrobiotechnology Session Chairman,** The 3rd Biotechnology Symposium.” 29th Nov- 1 December 2006, Biotechnology Research Institute, Universiti Malaysia Sabah. |
| 2005 | **Chairman.** The Current Issues on Genetically Modified Organisms (GMOs). 11th August 2005, Universiti Malaysia Sabah. |
| 2005 | **Session Chairman.** The Current Issues on Genetically Modified Organisms (GMOs). 11th August 2005, Universiti Malaysia Sabah. |
| 2005 | **Session Chairman.** The International Symposium on E-learning (ISEL).” Universiti Malaysia Sabah, 25-26th July 2005, Hotel Promenade, Kota Kinabalu, Sabah. |
| 2004 | **Member of the Central Committee.** Oration and Public Lectures, Scientists’ Dialogue with the Nobel Prize Centennial Exhibition, UMS. |

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1. **Service to the University / Community**
   1. **Service to the University**
2. **Administration**

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| **Year** | **Positions** |
| 2011 | **Deputy Director (Academic and Student Affairs) (3rd Term),** Biotechnology Research Institute, Universiti Malaysia Sabah.  (17 May 2011 – 16 May 2013) |
| 2009 | **Deputy Director (Academic and Student Affairs)** (**2nd Term),** Biotechnology Research Institute, Universiti Malaysia Sabah.  (15 June 2009 – 16 May 2011) |
| 2007 | **Deputy Director (1st Term),** Biotechnology Research Institute, Universiti Malaysia Sabah. (1 Sep 2007 – 14 June 2009) |
| 2007 | **Member of the Academy of Sciences Malaysia (ASM) Taskforce on Antarctic Research** |
| 2007 | **Coordinator for Life Sciences** of the Malaysian Antarctica Research Programme (MARP) –elected on the 2 November 2007. |
| 2010 | **Associate Member of the Academy of Sciences.** (September 2010 – August 2012) |
| 2005-2011 | **Acting Director** (vaying durations) refer to attachments |

1. **University Committee**

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| **2011** | **Panel of evaluators and monitors of Science Fund,** Universiti Malaysia Sabah.  Duration 1 January 2011 – 31 December 2012 |
| **2011** | **Panel of evaluators and monitors of Fundamental Research Grant Scheme (FRGS),** Universiti Malaysia Sabah.  Duration 1 January 2011 – 31 December 2012 |
| **2011** | **Chairman** of the *viva voce* of Mr. Lim Tek Kaun, School of Engineering and Information Technology. 11 April 2011. UMS. |
| **2011** | **Member** of the Investigation Panel for students of UMS  Duration 1 April 2011 – 31 December 2011 |
| **2010** | **Panel of monitors of Science Fund,** Universiti Malaysia Sabah.  Ad hoc Panel appointment dates: 22 Jun 2010 and 27 Jan 2010 |
| **2010** | **Panel of monitors of Fundamental Research Grant Scheme (FRGS),** Universiti Malaysia Sabah.  Ad hoc Panel appointment dates: 22 Mac 2010 |
| **2009** | **Panel of monitors of Science Fund,** Universiti Malaysia Sabah.  *Ad hoc* Panel appointment date: 5 Oct 2009 |
| **2008** | **Co-ordinator of the Post graduate Programme.** Biotechnology Research Institute, Universiti Malaysia Sabah. |
| **2008** | **Panel of Judges of the Research and Development Competition (PEREKA2008).** 19-24 August 2008. Universiti Malaysia Sabah. |
| **2008** | **Committee members of the Intellectual Property of UMS** |
| **2007** | **Panel of evaluators** “The distribution of Fundamental Research Fund”, Universiti Malaysia Sabah. |
| **2004** | **Panel of evaluators** “The Best UMS Research 2004, Bioscience, Forestry and the Environment Category, Universiti Malaysia Sabah. |
| **2004 – 2005** | **Committee members of the implementation of ICT in UMS,** *Unit Media dan Teknologi Pendidikan (UMTP)*, Universiti Malaysia Sabah. |

1. **Committee at Institute Level**

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| Year | Positions |
| 2011 | **Coordinator of the Microbiology Laboratory**  Duration 12 April 2011 – 11 April 2013 |
| 2008 | **Members of the Internal Auditor Committee for the 5S campaign.**  Date of appointment: 31 October 2008 |
| 2006-2009 | **Members of the Research Committee.** Biotechnology Research Institute, Universiti Malaysia Sabah. |
| 2004-2008 | **Co-ordinator of the Post-graduate Programme (by coursework)**, Biotechnology Research Institute, Universiti Malaysia Sabah. |

1. **Representing Universiti Malaysia Sabah**

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| Year | Positions |
| 2010 | Silver Medal. Inter-School Bowling Competition, Universiti Malaysia Sabah (VIP category) |
| 2009 | Silver Medal. Inter-School 200m x4, Universiti Malaysia Sabah (VIP category) |
| 2004 – 2006 | Inter-School Bowling Competition, Universiti Malaysia Sabah. |
| 2005 | Representing UMS to the Promotion Programme of UMS to the students at Matriculation College of Pahang, 15-17 Sep 2005, Pahang, Darul Makmur |

* 1. **Service to the Community**

1. **International**

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| **Year** | **Role** | **Title of Project and Funding Body** |
| 2011 | **Poster Judge** | Judge for Poster at the International Congress of the Malaysian Society for Microbiology 2011 (ICMSM2011), 8-11 December 2011, Penang. |
| 2011 | **Project Proposal Evaluator** | Isolation of Antarctic microorganisms able to synthesize highly fluorescent semiconductor nanoparticles (quantum dots) for biotechnological applications.  **National Fund for Scientific and Technological Research in Antarctica. Instituto Antartico Chileno (INACH), Chile.** |
| 2010 | **Project Proposal Evaluator** | Screening for enzymatic activities with biotechnological potential, in filamentous fungi and yeasts isolated from marine sponges from the Antarctic sea surrounding Fildes Bay (Rey Jorge Island).  **Departamento de Proyectos, Instituto Antartico Chileno (INACH), Chile.** |
| 2009 | **Project Proposal Evaluator** | “Isolation And Characterization of *Lactobacillus* spp. From Microbiota Of Plants, Birds and Mammals of The Antarctic Territory. Ecologic Importance and Biotechnological Potential.  **Departamento de Proyectos, Instituto Antartico Chileno (INACH), Chile.** |

**B. National**

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| Year | Positions |
| 2010 | **Associate Member of the Academy of Sciences.** (September 2010 – August 2012) |
| 2009 | **Evaluator,** The Best Journal for the *Majlis Penerbitan Ilmiah Malaysia 2009 (MAPIM)* Award. |
| 2008 | **Panel of evaluators of Science Fund (Chemical and Biotechnology Clusters)** 18 Nov 2008. Universiti Teknologi Malaysia. |
| 2007 | **Member of the Academy of Sciences Malaysia (ASM) Taskforce on Antarctic Research** |
| 2007 | **Coordinator for Life Sciences** of the Malaysian Antarctica Research Programme (MARP) –elected on the 2 November 2007. |
| 2005-2011 | **Acting Director** (varying durations) refer to attachments |

1. **State**

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| 2009 | **Promoting Science and creating awareness among school children** The 3rd Science Camp, Tshung Tsin Secondary School, Kota Kinabalu, Sabah with the theme “Exploration and Discovery.”10 May 2009, Tshung Tsin Secondary School Sabah.  Title of Talk   * Exploration in Antarctica |
| 2007 | **Academy of Sciences Malaysia** **Outreach Programme**– Public Lecture entitled “ Conducting Research in Antarctica”, Library Auditorium, Universiti Malaysia Sabah, 20 March 2007 |
| 2007 | **Promoting Science and creating awareness among school children**, The 2nd Science Camp, Tshung Tsin Secondary School, Kota Kinabalu, Sabah.  Title of Talks   * Research conducted by Malaysians in Antarctica * Ecosystem and Environment Protection |
| 2006 | **Panelist in the discussion with the members of the National Fatwa Council,** Malaysia Islam Affairs on issue related to Life Sciences in Promenade Hotel,Kota Kinabalu on 24 July 2006. |
| 2006 | Exhibiting research products to promote awareness about research in UMS at the Expo BIMP-EAGA, Palm Square, Center Point, Kota Kinabalu, Sabah. |
| 2005 | Exhibiting research products to promote awareness about research in UMS at the "Hari Peladang Sabah", 2005, Likas Sabah. |
| 2004 | Giving a talk entitled “Biotechnology and Bioinformatics” to the members Law Society of Malaysia. LawAsia IT Law Conference, Pan Pacific Hotel, Sabah. |

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**6.0 Academic Leadership (*Sanjungan dan Kepimpinan Akademik*)**

1. **Academic Award**

Excellent Service Award

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| Year | Award | Occasion |
| 2011 | **BioNexus Partners Programme** | BioNexus Partners Programme Status- Coordinator of the Microbiology Laboratory  Duration 5 January 2011 ~ |
| 2011 | ***Anugerah Khidmat Terpuji 2010*** | *Anugerah Perkhidmatan Cemerlang/Terpuji ceremony* on 13 June 2011 at the Grand Ballroom, 1Borneo, Kota Kinabalu |
| 2010 | ***Anugerah Khidmat Terpuji 2009*** | *Anugerah Perkhidmatan Cemerlang/Terpuji ceremony* on 30 June 2010 at the Grand Ballroom, 1Borneo, Kota Kinabalu |
| 2009 | ***Anugerah Khidmat Terpuji 2008*** | *Anugerah Perkhidmatan Cemerlang/Terpuji* ceremony on 16 Nov 2009 at the Universiti Malaysia Sabah |
| 2008 | **Excellent**  **Service Award 2007/08** | *Anugerah Perkhidmatan Cemerlang/Terpuji* ceremony on 7 August 2008, Universiti Malaysia Sabah |
| 2006 | **Excellent**  **Lecturer Award *(Science Category)*** | *Anugerah Perkhidmatan Cemerlang/Terpuji* ceremony on 16 November 2006, Universiti Malaysia Sabah |
| 2006 | ***Anugerah Khidmat Terpuji***  ***2005*** | *Anugerah Perkhidmatan Cemerlang/Terpuji* ceremony on 16 November 2006, Universiti Malaysia Sabah |
| 2005 | ***Sijil Penghargaan Saintis Cemerlang 2005*** | By the Ministry of Higher Education (MOHE) for winning a Gold Medal at The Seoul International Invention Fair 2004” |
| 2005 | ***Sijil Penghargaan Saintis Cemerlang 2005*** | By the Ministry of Higher Education (MOHE) for winning a Silver Medal at The Seoul International Invention Fair 2004” |

Research Award (International)

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| Year | Award | Occasion | Remarks |
| 2009 | **Gold medal** | **20th International Invention, Innovation and Technology Exhibition** (ITEX) 2009, 15-17 May 2009, Kuala Lumpur Convention Center ( KLCC) | For the exhibit entitled “Ruminants to poultry: Beneficial microbe and gene” |
| 2009 | **Bronze medal** | **20th International Invention, Innovation and Technology Exhibition** (ITEX) 2009, 15-17 May 2009, Kuala Lumpur Convention Center ( KLCC) | For the exhibit entitled “Meat ID kit II: A kit for meat speciation” |
| 2004 | **Gold medal** | The Seoul International Invention Fair 2004, 10-14 Dec. 2004, Korea | For the exhibit entitled “Meat ID Kit: A Kit for Meat Species Identification” |
| 2004 | **Silver medal** | The Seoul International Invention Fair 2004, 10-14 Dec. 2004, Korea | For the exhibit entitled “EZ-PREP KIT Nucleic Acid Isolation Kits for Clinical Molecular Diagnostic, Pharmacogenetics and Gene Discovery” |
| 2007 | **Travel grant of €1000 Euro** | From the The ICCC-11 Local Organizing Committee, German to attend the International Congress for Culture Collection. 11-14 October 2007, Goslar, German from |  |
| 2004 | **Travel grant** | From The ICCC-10 Local Organizing Committee, Japan” to attend The International Congress for Culture Collection. 10-15 October 2004, Tsukuba, Tokyo, Japan |  |
| 2004 | **Travel grant** | From the Japan Society for the Promotion of Science (JSPS) to visit the Nara Institute of Science and Technology |  |
| 2001 | **Best Paper of the Cell Biology International Proceedings** | The Organizing Committee of the 12th European Cell Cycle Conference, 10 -14 Feb 2001. Mayrhofen, Austria. | For the paper entitled DNA plasmid transmission in yeast is associated with specific sub-nuclear localization during cell division |

Research Award (National)

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| Year | Award | Occasion | Remarks |
| 2011 | **Gold Award** | BioInno Award competition, 21-23 November 2011, Kuala Lumpur Convention Center ( KLCC) | For the exhibit entitled “Effective microbes for the bioconversion of palm kernel cake to poultry feed” |
| 2008 | **Silver Award** | BioInno Award competition, 7 October 2008, Kuala Lumpur Convention Center ( KLCC) | For the exhibit entitled “ChiSMe: An effective screening medium for chitinolytic microorganisms” |
| 2006 | **Silver Award** | Biotechnology Asia 2006, 9-11 August 2006, Putra World Trade Centre (PWTC) | For the exhibit entitled “U.N.I.K. (Universal Nucleic Acid Isolation Kit): A DNA/RNA Extraction Kit For Various Biological Samples” |
| 2006 | **Bronze Award** | Biotechnology Asia 2006, 9-11 August 2006, Putra World Trade Centre (PWTC) | For the exhibit entitled “FGH: A Recombinant Protein of Fish Growth Hormone for Oral Application Effective in Serranidae Family”. |
| 2005 | **Silver Award** | R & D IPTA 2005 competition , 30 Sep - 2 October 2005, PWTC | For the exhibit entitled “Meat ID Kit: A Kit for Meat Species Identification and Halal Authentication” |
| 2005 | **Silver Award** | R & D IPTA 2005 competition, 30 Sep - 2 October 2005, PWTC | For the exhibit entitled “EZ-PREP KIT Nucleic Acid Isolation Kits for Clinical Molecular Diagnostic, Pharmacogenetics and Gene Discovery” |
| 2004 | **Silver Award** | The Science, Technology and Innovation Expo 2004 organized by MOSTI, 26-29 August 2004. Kuala Lumpur. | For the exhibit entitled “A Halal Authentication Kit - A Kit for the Analyses of Raw and Processed Meats” |

Research Award (University)

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| Year | Award | Occasion | Remarks |
| 2011 | **Gold Medal** | *Research and Innovation Competition (PEREKA2011),* 6-7 June 2011, UMS | For the exhibit entitled “ High Misdiagnosis Rate Of Human Malaria Parasites In The Interior Division Of Sabah” |
| 2011 | **Bronze medal** | *Research and Innovation Competition (PEREKA2011),* 6-7 June 2011, UMS | For The Exhibit Entitled “Effective Microbes For The Bioconversion Of Palm Kernel Cake (Pkc) To Poultry Feed” |
| 2010 | ***Publication Incentive***  ***RM1000*** | *Malam penghargaan penyelidik UMS Tahun 2009,*  9 Feb 2010, Grand Ballroom, Le Meridian Hotel, Kota Kinabalu. | For publishing in Peer Reviewed journals in 2008 and 2009 |
| 2010 | ***Medal Wining Incentive***  ***RM250*** | *Malam penghargaan penyelidik UMS Tahun 2009,* 9 Feb 2010, Grand Ballroom, Le Meridian Hotel, Kota Kinabalu. | For wining a Bronze Medal at the ITEX 2009 |
| 2010 | **Bronze medal** | *Research and Innovation Competition (PEREKA2010),* 5 -8 April 2010, UMS | For the exhibit entitled “pCM16, a stable and high copy number expression plasmid for yeast *Saccharomyces cerevisiae*”. |
| 2010 | **Bronze medal** | *Penyelidikan dan Rekacipta (PEREKA2010),* 5 -8 April 2010, UMS | For the exhibit entitled “EFB BusterTM : The effective microbes for composting”. |
| 2010 | **Best Poster Presentation Award (co-author)** | *International Symposium on Lactic Acid Bacteria (ISLAB 2010) 25-27 July 2010* | *For the poster entitled “Effect of probiolotic Lactobacillus on the performance of laying hens and composition of egg York”* |
| 2008 | **Gold medal** | *Research and Innovation Competition (PEREKA2008),* 19 -24 August 2008,  UMS | For the exhibit entitled “Meat ID kit II: A kit for meat speciation” |
| 2008 | **Gold medal** | *Research and Innovation Competition (PEREKA2008),* 19 -24 August 2008,  UMS | For the exhibit entitled “ChiSMe: An effective screening medium for chitinolytic microorganisms” |

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1. **Visiting Professor/ Fellowship**

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| Year | Place |
| 2001 | Institute of Biotechnology, University of Cambridge, England 26 Mac – 13 May 2002  Sponsored by the British Biotechnology Society Research Council (BBSRC) |
| 2004 | Nara Institute of Science and Technology (NAIST), Nara, Japan, 21 Oct - 8 Nov 2004  Sponsored by the Japan Society for the Promotion of Science (JSPS), Japan |
| 2005 | Korea Research Institute of Science and Technology, Daejeon, South Korea, 7 -14 Nov 2005.  Sponsored by the United Nation Development Programme (UNDP)- Republic of Korea Fund |

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1. **Journal Reviewer/ Academic Reviewer**

Journal reviewer (International)

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| 2011 | **African Journal of Microbiology Research**  **Title of manuscript:** Detection of Genetically modified organisms in vegetable oils. |
| 2011 | **Polar Biology**  **Title of manuscript:** Diversity and Structure of Bacterial Communities in Fildes Peninsula, King George Island. |
| 2011 | **Polish Polar Research Journal**  **Title of manuscript:** Analysis of psychrophilic bacteria isolated from bottom sediments of the Wijdefjorden region. |
| 2011 | **African Journal of Microbiology Research**  **Title of manuscript:** Purification and characterization of a phytase from *Mitsuokella jalaludinii,* a bovine rumen bacterium. |
| 2010 | **African Journal of Microbiology Research**  **Title of manuscript:** Effect of prebiotic oligosaccharides on growth of *Lactobacillus*strains used as a probiotic for chickens. |
| 2010 | **Journal of Science and Technology in the Tropics (JOSTT)**  **Title of manuscript:** The antiproliferative and antioxidant properties of leaf extracts of /Pereskia bleo/ (Kunth) DC (Cactaceae) and their ability to limit natural and oxidant-induced apoptotic cell death. |
| 2010 | **Journal of Applied Phycology**, **Elsevier**  **Title of manuscript:** Molecular cloning and analysis of cytosolic Hsp70 gene from *Undaria pinnatifida* (Alariaceae, Phaeophyta). |
| 2007 | **Journal of Food and Bioprocess Technology**, **Elsevier**  **Title of manuscript:** QCM-based DNA biosensor for detection of genetically modified organisms (GMOs). |
| 2006 | **Journal of Applied Phycology**, **Elsevier**  **Title of manuscript:** Phylogenetic Analysis of Epiphytic Marine Bacteria on the Hole-Rotten Diseased Sporophytes of *Laminaria japonica*. |

Journal reviewer (National)

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| 2011  Re-evaluation | **The Malaysian Society of Applied Biology Journal. Special issue**  **Title of manuscript:** Purification of Extrachitinase 33kDa and Its Gene Expression in *Trichoderma longibrachitum* |
| 2010 | **The Malaysian Society of Applied Biology Journal. Special issue**  **Title of manuscript:** Purification of Extrachitinase 33kDa and Its Gene Expression in *Trichoderma longibrachitum* |
| 2010 | **Journal of Tropical & Conservation**, **Universiti Malaysia Sabah**  **Title of manuscript:** Morphological and physiological studies of *Aspergillus* spp. from Sarawak, Borneo, Malaysia |
| 2009 | **ASM Science Journal,** Academy of Sciences, Malaysia  **Title of manuscript:** First report on surface coverage and some soil chemistry baseline at Punta for William Headland, Greenwich Island, Antarctica |
| 2009 | **Reviewer of the Proceedings of the 3rd International Conference on Chemical and Bioprocess Engineering 12-14th August 2009.** School of Engineering and Information Technology, UMS |
| 2008 | **Journal of Tropical & Conservation** **Universiti Malaysia Sabah**  **Title of manuscript:** Screening for microbial inhibitors against prokaryotic and eukaryotic signal transduction from rain forest in Danum Valley, Sabah, Malaysia |
| 2007 | **Malaysian Journal of Science, Universiti Malaya**  **Title of manuscript:** Synergistic Effect of Ethanolic Leaf Extracts of Selected Plant Species Against Bacteria |
| 2007 | **Asean Food Journal**  **Title of manuscript:** Application of DNA and Immunoassay analytical methods for GMO testing in agricultural crops and plant-derived products |
| 2006 | **Journal of Tropical & Conservation**, **Universiti Malaysia Sabah**  **Title of manuscript:** Screening microbes isolated from Melalap, Crocker Range for Inhibitors against both Prokaryote and Eukaryote Signal Transduction and Isocitrate lyase in Mycobacterium |
| 2006 | **Malaysian Journal of Pharmaceutical Science**  **Title of manuscript:** The Effect of Orthosiphon Stamineus, Benth on Aminopyrine Metabolism in Rat Hepatocytes and its Molecular Mechanism Elucidation |
| 2006 | **Borneo Journal of Medical Sciences**, **Universiti Malaysia Sabah**  **Title of manuscript:** Phytosterol from *Diocorea alata* L. and *Colocasia esculenta*: Investigation of their Lipid Lowering Effect |
| 2005 | **Journal of Tropical & Conservation**, **Universiti Malaysia Sabah**  **Title of Manuscript:** Screening for microbial inhibitors from Melalap, Crocker Range against eukaryotic signal transduction and isocitrate lyse in Mycobacterium |
| 2002 | **Journal of Bioscience, Universiti Sains Malaysia**  **Title of manuscript:** Development of polymerase cased screening for polyhydroxyalkanoate producing bacteria |

Reviewer of Grant Application (International)

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| **Year** | **Title of proposal** | **Funding Body** |
| 2011 | Isolation of Antarctic microorganisms able to synthesize highly fluorescent semiconductor nanoparticles (quantum dots) for biotechnological applications | National Fund for Scientific and Technological Research in Antarctica. **Instituto Antartico Chileno (INACH), Chile.** |
| 2010 | Screening for enzymatic activities with biotechnological potential, in filamentous fungi and yeasts isolated from marine sponges from the Antarctic sea surrounding Fildes Bay (Rey Jorge Island) | Departamento de Proyectos, **Instituto Antartico Chileno (INACH), Chile.** |
| 2009 | Isolation And Characterization Of *Lactobacillus* spp. From Microbiota Of Plants, Birds And Mammals Of The Antarctic Territory. Ecologic Importance and Biotechnological Potential | Departamento de Proyectos, **Instituto Antartico Chileno (INACH). Chile.** |

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1. Editorial board

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| 2010-2011 | **Scientific Editors,** Journal of Tropical Biology and Conservation |
| 2007 | **Co-Editor**, Biotechnology Technical Report Vol. 2, Biotechnology Research Institute, Universiti Malaysia Sabah |
| 2005 - 2006 | **Co-Editor**, Biotechnology Technical Report Vol. 1, Biotechnology Research Institute, Universiti Malaysia Sabah |

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1. Invited speakers

**Keynote presentation for the paper entitled** “Advances in Biotechnology Research”. Engineering and Science International Conference: Progress in Science and Engineering for Sustainable Development, Curtin University of Technology. 24-25 November 2009. Miri, Sarawak, Malaysia. (Invitation by Curtin University)

**Invited speaker by the Chemistry Department of Malaysia** for the paper entitled “Detection of Genetically modified organisms in Food.” The International Symposium of Forensic Science and Environmental Health.” 10-11 November 2009, Putra World Trade Center, Kuala Lumpur, Malaysia.

**Invited Speaker** by the Law Society of Malaysia. Paper presented entitled “**Biotechnology and Bioinformatics”** LawAsia IT Law Conference, 2004 Sabah.

**Invited speaker** by the Centre for Postgraduate Studies, Universiti Malaysia Sabah to give a talk on “Writing and Presentation of Academic Proposal” at the Methodology Course”. 21 July 2010. Universiti Malaysia Sabah.

**Invited speaker** by the School of Food Science and Nutrition, Universiti Malaysia Sabah to give a talk on” Nutrigenomics”. 1 February 2010. Universiti Malaysia Sabah.

**Invited speaker** by the Centre for Postgraduate Studies, Universiti Malaysia Sabah to give a talk on “Writing and Presentation of Academic Proposal” at the Methodology Course”. 19 January 2011. Universiti Malaysia Sabah.

**Invited speaker** by the School of Food Science and Nutrition, Universiti Malaysia Sabah to give a talk on” Nutrigenomics”. 16 February 2011. Universiti Malaysia Sabah.

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1. Professional bodies/ Academic

#### Associate Member of the Academy of Science on the Malaysia (Sep 2010- Aug 2012)

#### Taskforce member of the Academy of Science on the Malaysia Antarctic Research Programme (MARP) (Since 2008)

#### Life member of The Malaysia Society for Microbiology (Since 12 September 2001)

1. **Fellow Cambridge Commonwealth Society** (Since 1997)

#### Alumni Wolfson College, University of Cambridge (Since 2000)

1. **Cambridge University** **Alumni** (Since 2000)
2. **Alumni of the Faculty of Veterinary, Universiti Putra Malaysia** (Since 2000)
3. **Executive member** of the Malaysia Society of Bioinformatic (Masbic) (From 2007-2008)

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1. **Collaboration**
2. **Collaborative activity**

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| **Date** | **Activity** |
| 4 Aug – 25 Aug 2011 | Joint Scientific Expedition with the Polish Academy of Sciences  Poland to Hornsund, Arctic. |
| 8 – 9 July 2011 | Delegates meeting at the Asian Forum for Polar Sciences (AFOPs) to forge collaborative activities between Malaysia and Polar nations |
| 7 Jan – 6 Feb 2008 | Joint Scientific Expedition with the Institution Antarctic Chileno to the Antarctic Peninsula. |
| May 2004 | Delegates meeting at the Asian Forum for Polar Sciences (AFOPs) to forge collaborative activities between Malaysia and Polar nations |
| 25 Jan – 25 Feb 2007 | Joint Scientific Expedition with the Institution Antarctic Chileno to the South Shetland Islands, Antarctic. |
| 6 Dec 2004 – 31 Mac 2005 | Joint Scientific Expedition with the National Center Antarctic and Ocean Research (NCAOR) to Maitri Antarctica |

1. **Collaborative projects**

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| Collaborator | Collaborative work | Institution |
| Assoc. Prof. Dr. Gerardo Gonzalez | Analysis of the antimicrobial compounds of Antarctic Bacteria | Universidad De Concepcion  Concepcion  Chile |
| Dr. Marcello Gonzalez | Diversity of bacteria of the South Shetland Islands | Instituto Antarctico Chileno  Punta Arenas, Chile |
| Assoc. Prof. Dr. Siti Aisyah Alias | Bioactive compounds of fungi from Antarctic | Institute of Biosciences  Universiti Malaya |
| Prof. Dr. Mohd. Nazalan Najimuddin | Transcriptome of Antarctic Yeast *Leucosporidium antarcticum* | Center for Chemical Biology  Universiti Sains Malaysia  Penang |
| Assoc. Prof. Dr. Abdul Munir Murad | Transcriptome of Antarctic Yeast *Leucosporidium antarcticum* | Malaysia Genome Institute (MGI), Bangi, Selnagor |
| Assoc. Prof. Dr Cheah Yoke Kqueen | Bioactive compounds of Actinobacteria from Antarctica | Faculty of Medical  Universiti Putra Malaysia |
| Assoc. Prof. Dr. Kalavathy a/p Ramasamy | Probiotic for Poultry | Faculty of Pharmacy  UiTM  Shah Alam |