

Curriculum Vitae

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## CURRICULUM VITAE

**Yun-Kiam Yap (Dr)**

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### Academic Qualification:

- **Bachelor of Science (First Class Honours) in Biochemistry (Aug. 1993)**  
National University of Malaysia, Malaysia (July 1989 – Apr. 1993)  
Thesis title: Isolation and characterization of acid phosphatase from *Pseudomonas pseudomallei*
- **Master of Science (Dec. 1997)**  
National University of Singapore, Singapore (May 1994 – Jan. 1997)  
Thesis title: Isolation of *Endomyces fibuliger ADE1* gene by complementation in *Saccharomyces cerevisiae*
- **Doctor of Biological Sciences (Mar. 2002)**  
Nara Institute of Science and Technology, Nara, Japan (Apr. 1999 – Mar. 2002)  
Thesis title: Analyses of wound and pathogen signal transduction mediated by WIPK, a mitogen-activated protein kinase from tobacco

### Expertise:

Biochemistry, Microbiology, Genetics, Molecular and Cell biology, Plant Cell and Molecular Biology, Plant Biotechnology and Genetic Engineering, Plant Stress Responses, Plant Molecular Pathogenesis.

### Courses Taught:

Molecular Genetics, Genetic Engineering, Techniques in Molecular Genetics & Genetic Engineering, Instrumentation in Molecular Biology, General Biology, Molecular Biology.

### Work Experiences:

**Sept 2013-present: Assistant Professor**, Department Of Biological Sciences, College of Science, King Faisal University, KINGDOM OF SAUDI ARABIA.

**2005-2013: Lecturer**, Institute of Molecular Biosciences (formerly known as Institute of Molecular Biology and Genetics), Mahidol University, THAILAND.

**2002-2003: Post-doctoral Research Associate**, Institute of Cell Signalling (ICS), Nottingham University, UNITED KINGDOM.

**1997-1998: Research Assistant**, School of Biological Sciences, National University of Singapore (NUS), SINGAPORE.

**1993-1994: Research Assistant**, Department of Biochemistry, National University of Malaysia (UKM), MALAYSIA.

## Award (Grant / Scholarship):

- Deanship of Scientific Research Annual Grant, King Faisal University – cycle 1437
- The Office of National Research Council of Thailand (NRCT) (Oct. 2010- Sep. 2012)
- Royal Goldern Jubilee (RGJ) scholarship (2010 – cycle 12)
- Mahidol University mid-career research grant (Feb. 2009- Feb. 2010)
- Thailand Research Fund – New Researchers Grant (July 2006 – June 2008)
- The Japanese Govt. Scholarship (Monbusho) (Apr. 1998 – Mar. 2002)
- Postgraduate Research Scholarship – National University of Singapore (May 1994 – Dec. 1996)

## List of Publications:

### Journal/Book chapter

- Fadia El-Sherif, Enas Safaa Ibrahim, Yun-Kiam Yap (2017). Salinity effects on direct shoot regeneration of two male *Populus* clones. International Journal of Biotech Trends and Technology (IJBT) 20. Doi: 10.14445/22490183/IJBT-V20P601
- S. Libsittikul, S. Khongwicht, D.R. Smith and Y-K. Yap (2015). **Evaluation of Papaya Ringspot Virus as a vector for expression of Dengue E protein domain III in *Cucurbita pepo* (zucchini) plants.** The Journal of Animal & Plant Sciences. 25(3): 809-815
- T. Juntadech, K. Yokthongwattana, S. Tangphatsornruang, Y-K. Yap, G. Katzenmeier, C. Angsuthanasombat (2012). **Efficient transcription of the larvicidal *cry4Ba* gene from *Bacillus thuringiensis* in transgenic chloroplasts of the green algal *Chlamydomonas reinhardtii*.** Adv Biosci. Biotech. 3: 362-369
- Y-K. Yap, D.R. Smith (2010). **Strategies for the plant based expression of dengue subunit vaccines (mini-review).** Biotechnology and Applied Biochemistry 57(2): 47-53, *Impact Factor: 1.239*
- Y-K. Yap, J. Duangjit, S. Panyim (2009). **N-terminal of Papaya ringspot virus (PRSV) helper component proteinase (HC-Pro) is essential for PRSV systemic infection in zucchini.** Virus Genes 38: 461-467, *Impact Factor: 1.705*
- S. Eiamtanasate, M. Juricek, Y-K. Yap (2007). **C-terminal hydrophobic region leads PRSV P3 protein to endoplasmic reticulum.** Virus Genes 35: 611-617, *Impact Factor: 1.362*
- F. Waller, A. Müller, K-M Chung, Y-K. Yap, K. Nakamura, E. Weiler, H. Sano (2006). **Expression of WIPK-Activated transcription factor results in increase of endogenous salicylic acid and pathogen resistance in tobacco plants.** Plant Cell Physiology 47(8): 1169-1174, *Impact Factor: 3.324*
- Y-K. Yap, Y. Kodama, F. Waller, K.M. Chung, H. Ueda, K. Nakamura, M. Oldsen, H. Yoda, Y. Yamaguchi, H. Sano (2005). **Activation of a novel transcription factor through phosphorylation by WIPK, a Wound-induced Mitogen Activated Protein Kinase in tobacco plants.** Plant Physiology 139: 127-137, *Impact Factor: 6.114*
- Y-K. Yap, K. Kakamu, Y. Yamaguchi, N. Koizumi, H. Sano (2002). **Promoter analysis of WIPK, a gene encoding a tobacco MAP kinase, with reference to wounding and Tobacco mosaic virus infection.** Journal of Plant Physiology 159: 77-83, *Impact Factor: 0.941*
- M. Huang, D.C-Y. Koh, L.J. Weng, M.L. Chang, Y-K. Yap, L. Chang and S.M. Wong (2000). **Complete nucleotide sequence and genome organization of *Hibiscus chlorotic ringspot virus*, a new member of the genus Carmovirus: Evidence for the presence and expression of two novel open reading frames.** Journal of Virology 74(7): 3149-3155, *Impact Factor: 5.93*
- B.H. Nga, C.W. Yip, L.L. Chiu, T.L. Yap, Y.M. Chew, Y-K. Yap, H.H. Khng and S.I. Koh (1996). **The importance of microbial genetics in indigenous food fermentations.** Handbook of Indigenous Fermented Foods. K.H. Steinkraus (Ed.). Marcel Dekker, Inc., New York. Pg. 713-718 and 741-744

### Presentation at International Conference

- S. Libsittikul, Y-K. Yap (1<sup>st</sup> March, 2012). **Construction of plant expression vectors for Dengue virus serotype 2 envelope protein domain III (D2EDIII).** The 1<sup>st</sup> ASEAN Plus Three Graduate Research Congress (AGRC 2012), The Empress Convention Center, The Empress Hotel, Chiang Mai, Thailand-poster.

- I.F. Merga, Y-K. Yap (12<sup>th</sup> Feb. 2010). **Introduction of GUS gene at the P1/HC-Pro junction of *Papaya ringspot virus* infectious clone.** The 11<sup>th</sup> Khon Kean University 2010 Graduate Research Conference, Graduate School Khon Kean University, Thailand – oral.
- I.F. Merga, Y-K. Yap (10<sup>th</sup>-12<sup>th</sup> Dec. 2009). **Development of *Papaya ringspot virus* based expression vector.** The 14<sup>th</sup> Biological Sciences Graduate Congress, Chulalongkorn University, Bangkok, Thailand – oral.
- J. Duangjit, Y-K. Yap (23<sup>rd</sup> Mar. 2009). **Expression of the *Bacillus thuringiensis* Cry4Ba mosquito larvicidal protein in tobacco (*Nicotiana tabacum*).** Bacterial protein toxins: from basic research to application, Institute of Science and Technology for Research and Development, Mahidol University – poster.
- J. Duangjit, Y-K. Yap (14<sup>th</sup>-17<sup>th</sup> Oct. 2008). **Establishment of chloroplast transformation system for *Bacillus thuringiensis* Cry4Ba mosquito larvicidal protein in tobacco.** 20<sup>th</sup> Annual Meeting and International Conference of the Thai Society for Biotechnology, Taksila Hotel, Maha Sarakham, Thailand – poster.
- Y-K. Yap, S. Panyim (24<sup>th</sup>-29<sup>th</sup> Aug. 2008). **Analysis of *Papaya ringspot virus* pathogenesis.** 9<sup>th</sup> International Congress of Plant Pathology (ICPP), Torino, Italy – poster.
- P. Itthisoponpisarn, R. Yaporn and Y-K. Yap (24<sup>th</sup>-29<sup>th</sup> Aug. 2008). **Post-transcriptional gene silencing and *Papaya ringspot virus* resistance.** 9<sup>th</sup> ICPP, Torino, Italy – poster.
- R. Yaporn, Y-K. Yap, S. Panyim, K. Triwitayakorn (5<sup>th</sup>-9<sup>th</sup> Nov. 2007). **Protection of Zucchini plants from *Papaya ringspot virus* infection by double-stranded RNA inoculation.** The 6<sup>th</sup> Asian Crop Science Association Conference, Bioasia 2007, Queen Sirikit National Convention Center, Bangkok, Thailand – poster.
- Y-K. Yap, S. Eiamtanasate, P. Itthisoponpisarn, S. Panyim (20<sup>th</sup>-24<sup>th</sup> Aug. 2007). **Analyses of *Papaya ringspot virus* (PRSV) gene products.** 3<sup>rd</sup> Asian Conference of Plant Pathology, Gadjah Mada University, Yogyakarta, Indonesia 2007 – oral.
- P. Itthisoponpisarn, Y-K. Yap, S. Panyim, K. Triwitayakorn (15<sup>th</sup>-17<sup>th</sup> Dec. 2006). **Transient assay of *Papaya ringspot virus* resistance induced by dsRNA triggered post-transcriptional gene silencing mechanism in cucurbit plants.** 11<sup>th</sup> Biological Sciences Graduate Congress, Chulalongkorn University, Thailand – poster.
- S. Eiamtanasate, S. Kerbundit, S. Panyim, Y-K. Yap (10<sup>th</sup>-12<sup>th</sup> Oct. 2006). **Short hydrophobic region lead the PRSV P3 protein to endoplasmic reticulum.** 32<sup>nd</sup> Congress on Science and Technology of Thailand (STT 32) – oral.
- Y.K. Yap, Y. Yamaguchi, N. Koizumi, H. Sano (9<sup>th</sup>-12<sup>th</sup> Dec. 2001). **Molecular cloning and characterization of NtWAF, a protein that interacts with tobacco wound-induced protein kinase (WIPK).** 24<sup>th</sup> Annual Meeting of the Molecular Biology Society of Japan, Yokohama, Japan – poster.
- Y.K. Yap, N. Koizumi, T. Kusano, H. Sano (23<sup>rd</sup>-26<sup>th</sup> Mar. 2001). **Promoter analysis of WIPK – A tobacco wound induced MAP kinase.** Symposia and workshop of the 2001 annual meeting of the Japanese Society of Plant Physiologist (JSPP), Kyushu Sangyo University, Fukuoka, Japan – poster.
- Y.K. Yap, T. Kusano, H. Sano (27<sup>th</sup>-29<sup>th</sup> Mar. 2000). **Isolation of a gene, *NtWAF1*, encoding a protein that interacts with wound induced protein kinase (WIPK) from tobacco plants by yeast two hybrid system.** Symposia of the 2000 annual meeting of the Japanese Society of Plant Physiologist (JSPP), Sugiyama Jogakuen University, Nagoya, Japan – oral.
- C.W. Yip, M.G. Lim, B.H. Nga, K.N. Tan, M.E. Nga, Y.K. Yap, Y.M. Chew, D. Gho, M. Lim, F.K. Loh, C.L. Loke, S.Y. Poh and J.K. Tan (12<sup>th</sup>-15<sup>th</sup> Oct. 1994). **Development of a vector system for the cloning of the glucoamylase gene of *Endomyces fibuliger*.** The 9<sup>th</sup> NRCT, NUS, DOST-JSPS joint seminar on biotechnology and The 6<sup>th</sup> annual meeting of the Thai Society for Biotechnology, Kosa Hotel, Khon Kaen, Thailand.