



# Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)  
999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon  
Nakhon Pathom 73170, Thailand

---

**Name** Waraporn Malilas, Ph.D.  
**E-mail address** Waraporn.mas@mahidol.ac.th  
**Current position** Lecturer

## Education

**2003** B.Ed. Srinakharinwirot University, Thailand  
(Science-Biology)

**2006** M.Sc. Chulalongkorn University, Thailand  
(Genetics)

**2013** Ph.D. Pusan National University, South Korea  
(Cogno-Mechatronics Engineering/Nanoscience)

## Research Interest

1. Molecular cell biology in cancer
2. Nutrigenomics in nutritional research
3. Diet and cancer chemoprevention
4. Epigenetics in nutritional research

## Research Experiences

1. Biochemical studies using cell culture model
2. Established recombinant DNA, purification of plasmids and transfection either DNA or RNA.
3. Performed PCR and RT-PCR in cell lines and bacteria.
4. Analyzed protein expression by western blot and immunoprecipitation.
5. Screening and induced mutation of lipolytic fungi to enhance hydrolytic activity.
6. Food product development for nutritional purpose

## Training

2019: ผ่านการรับรองการศึกษาด้วยตนเองโดยใช้โปรแกรม Collaborative Institutional Training Initiative (CITI) ได้รับใบอนุญาตจริยธรรมการวิจัยในคนสำหรับการวิจัยทางการแพทย์ ระหว่างวันที่ 27-Jan-2019 ถึง วันที่ 26-Jan-2023 โดยศูนย์ส่งเสริมจริยธรรมการวิจัยในคน มหาวิทยาลัยมหิดล

2016: อบรมหลักสูตร "เรียนรู้การใช้งานโปรแกรม EndNote X7.2.1 สำหรับการจัดการบรรณานุกรม" กองเทคโนโลยีสารสนเทศ มหาวิทยาลัยมหิดล



# Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)  
999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon  
Nakhon Pathom 73170, Thailand

---

- 2016: ผ่านการอบรมและได้รับใบอนุญาตจริยธรรมการวิจัยในคนสำหรับการวิจัยทางการแพทย์ รุ่นที่ 1/2559 โดยศูนย์ส่งเสริมจริยธรรมการวิจัยในคน มหาวิทยาลัยมหิดล
- 2009: Attended the Korean language program offered by The Korea Foundation for Advanced Studies, Seoul, South Korea from September 2008 to July 2009
- 2007: Attended the Fundamentals of GC Model GC-2010 Series and HPLC Model LC-20A Series

## Publications

### International level

1. Wongwatanapaiboon J, **Malilas W**, Ruangchainikom C, Thummadetsak G, Chulalaksananukul S, Marty A and Chulalaksananukul W. Overexpression of *Fusarium solani* lipase in *Pichia pastoris* and its application in lipid degradation. *Biotechnology and Biotechnological Equipment*. 2016; 30(5), 885–893.  
(Impact factor 0.373) \*Published after Ph.D. Program
2. Kaewpiboon C, Srisuttee R, **Malilas W**, Moon J, Oh S, Jeong HG, Johnston RN, Assavalapsakul W, and Chung YH. Upregulation of Stat1-HDAC4 confers resistance to etoposide through enhanced multidrug resistance 1 expression in human A549 lung cancer cells. *Molecular medicine reports*. 2015; 11:2315–2321.  
(Impact factor 1.17) \*Published after Ph.D. Program
3. Moon J, Koh SS, **Malilas W**, Cho IR, Kaewpiboon C, Kaowinn S, Lee K, Jhun BH, Choi YW and Chung YH. Acetylshikonin induces apoptosis of hepatitis B virus X protein-expressing human hepatocellular carcinoma cells via endoplasmic reticulum stress. *European Journal of Pharmacology*. 2014; 735:132–140.  
(Impact factor 2.592) \*Published after Ph.D. Program
4. Kaewpiboon C, Surapinit S, **Malilas W**, Moon J, Phuwapraisirisan P, Tip-Pyang S, Koh SS, Johnston RN, Assavalapsakul W, and Chung YH. Feroniellin A-induced autophagy causes apoptosis in multidrug-resistant human A549 lung cancer cells. *International Journal of Oncology*. 2014; 44:1233–1242.  
(Impact factor 2.657) \*Published after Ph.D. Program
5. **Malilas W**, Koh SS, Lee S, Srisuttee R, Cho IR, Moon J, Kaowinn S, Johnston RN and Chung YH. Suppression of autophagic genes sensitizes CUG2-overexpressing A549 human lung cancer cells to oncolytic vesicular stomatitis virus-induced apoptosis. *International Journal of Oncology*. 2014; 44:1177–1184.  
(Impact factor 2.657)



## Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)  
999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon  
Nakhon Pathom 73170, Thailand

---

6. Kaewpiboon C, Srisuttee R, **Malilas W**, Moon J, Kaowinn S, Cho IR, Johnston RN, Assavalapsakul W and Chung YH. Extract of Bryophyllum laetivirens etoposide resistance in human lung A549 cancer cells by downregulation of NF-kB. *Oncology Reports*. 2013; 31:161–168.  
(Impact factor 2.297)
7. **Malilas W**, Koh SS, Kim S, Srisuttee R, Cho IR, Moon J, Yoo HS, Oh S, Johnston RN and Chung YH. Cancer upregulated gene 2, a novel oncogene, enhances migration and drug resistance of colon cancer cells via STAT1 activation. *International Journal of Oncolog*. 2013; 43:1111–1116.  
(Impact factor 2.657)
8. **Malilas W**, Kang SW, Kim SB, Yoo HY, Chulalaksananukul W, and Kim SW. Lipase from *Penicillium camembertii* KCCM 11268: Optimization of solid state fermentation and application to biodiesel production. *Korean Journal of Chemical Engineering*. 2013; 30(2): 405–412.  
(Impact factor 0.991)
9. **Malilas W**, Koh SS, Srisuttee R, Boonying W, Cho IR, Jeong CS, Johnston RN and Chung YH. Cancer upregulated gene 2, a novel oncogene, confers resistance to oncolytic vesicular stomatitis virus through STAT1-OASL2 signaling. *Cancer Gene Therapy*. 2013; 20:125–132.  
(Impact factor 2.802)
10. Srisuttee R, Koh SS, **Malilas W**, Jeong M, Cho IR, Jhun BH, Horio Y and Chung YH. SIRT1 sensitizes hepatocellular carcinoma cells expressing hepatitis B virus X protein to oxidative stress-induced apoptosis. *Biochemical and Biophysical Research Communications*. 2012; 429:45–50.  
(Impact factor 2.523)
11. Cho IR, Koh SS, **Malilas W**, Srisuttee R, Moon J, Choi YW, Horio Y, Oh S and Chung YH. SIRT1 inhibits proliferation of pancreatic cancer cells expressing pancreatic adenocarcinoma up-regulated factor (PAUF), a novel oncogene, by suppression of  $\beta$ -catenin. *Biochemical and Biophysical Research Communications*. 2012; 423:270–275.  
(Impact factor 2.523)
12. Srisuttee R, Koh SS, Kim SJ, **Malilas W**, Boonying W, Cho IR, Jhun BH, Ito M, Horio Y, Seto E, Oh S and Chung YH. Hepatitis B virus X (HBX) protein upregulates  $\beta$ -catenin in a human hepatic cell line by sequestering SIRT1 deacetylase. *Oncology Reports*. 2012; 28:276–282.  
(Impact factor 1.686)



## Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)  
999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon  
Nakhon Pathom 73170, Thailand

---

13. Cho IR, Oh M, Koh SS, **Malilas W**, Srisuttee R, Jhun BH, Pellegrini S, Fuchs SY and Chung YH. Hepatitis B virus X protein inhibits extracellular IFN- $\alpha$ -mediated signal transduction by downregulation of type I IFN receptor. *International Journal of Molecular Medicine*. 2012; 29(4):581–586. (Impact factor 1.814)

### Poster Presentations

1. Apiradee Srisutthisamphan, Rungrat Chamchan, **Waraporn Malilas** and Nattira On-nom "Development reduced-sodium instant shrimp paste chili sauce with vegetable powder" SCT conference 2018: "Social Innovation" Southern College Of Technology Nakhon Si Thammarat, Thailand, February 21-25, 2019
2. Kaewpiboon, C., Srisuttee, R., **Malilas, W.**, Cho I.R. and Chung, Y.H. 2013. Stat1-HDAC4 signal confers human A549 lung cancer cells resistance to etoposide, 2013 Korean Society for Biochemistry and Molecular Biology Annual Meeting. May 14-16, COEX, Seoul, South Korea.
3. **Malilas, W.**, Srisuttee, R., Cho I.R., Moon, J. and Chung, Y.H. 2013. Cancer Up-regulated Gene (CUG) 2, a novel oncogene, enhances migration and drug resistance of colon cancer cells via STAT1 activation, 2013 Korean Society for Biochemistry and Molecular Biology Annual Meeting. May 14-16, COEX, Seoul, South Korea.
4. **Malilas, W.**, Srisuttee, R., Cho I.R., Koh, S.S. and Chung, Y.H. 2012. CUG2 enhances migration and drug resistance of colon cancer cells via Stat1 activation, 2012 Korean Society for Biochemistry and Molecular Biology Annual Meeting. May 30-June 1, COEX, Seoul, South Korea.
5. **Malilas, W.**, Koh, S.S., Srisuttee, R., Boonying, W., Cho I.R. and Chung, Y.H. 2012. CUG2 confers resistance to oncolytic VSV infection through Stat1-Oasl2 anti-viral signaling, 2012 Korean Society for Biochemistry and Molecular Biology Annual Meeting. May 30-June 1, COEX, Seoul, South Korea.
6. **Malilas, W.**, Srisuttee, R., Boonying, W., Koh, S.S. and Chung, Y.H. 2011. Cancer up-regulated gene (CUG) 2-mediated activation of Stat1 confers resistance to oncolytic vesicular stomatitis virus infection, 2011 Korean Society for Biochemistry and Molecular Biology Annual Meeting. May 16-18, COEX, Seoul, South Korea.
7. **Malilas, W.**, Kang S.W., Chulalaksananukul, W., and. Kim, S.W. 2009.



## Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)  
999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon  
Nakhon Pathom 73170, Thailand

---

Lipase Production in Solid State Fermentation by Fungi Using Statistical Experimental Designs, The MSK's 50<sup>th</sup> Anniversary International Symposium on Microbiology 2009. May 28-30, Jeju Island, South Korea.

8. **Malilas, W.**, and Chulalaksananukul, W. 2008. Screening and Induced Mutation of Lipolytic Fungi to Enhance Hydrolytic Activity, 2<sup>nd</sup> Graduate Research Conference. September 19, Silpakorn University, Bangkok, Thailand. (First prize in poster presentation)
9. **Malilas, W.**, Tatong, W., Piapukiew, J. and Chulalaksananukul, W. 2008. Screening and induced mutation of lipolytic fungi to enhance hydrolytic activity, 4<sup>th</sup> Naresuan Research Conference. July 28-29, Naresuan University, Phitsanulok, Thailand. (First prize in poster presentation)
10. Angsanam, S., **Malilas, W.**, Vangnai, A. S., Chulalaksananukul, W. and Piapukiew, J. 2008 Screening and optimization for lipase production from *Fusarium solani* CU103. The 20<sup>th</sup> Annual Meeting and International Conference of the Thai Society for Biotechnology. October 14-17, Maha Sarakham, Thailand.
11. Boonvitthya, N., **Malilas, W.**, Winayanuwattikun, P., Piapukiew, J. and Chulalaksananukul, W. 2007. Cloning and expression of *Fusarium solani* NAN103 lipase in *Pichia pastoris*, 12<sup>th</sup> Biological Sciences Graduate Congress (BSGC) "Science Empowering Life". December 17-19, Malaya University, Malaysia.

### Awards and Foundation

1. The Outstanding Research Award in the field of Science, SCT conference 2018: "Social Innovation" Southern College Of Technology Nakhon Si Thammarat, Thailand, February 21-25, 2019 (Poster Presentation)
2. The Outstanding Research Award in the field of Science, 2<sup>nd</sup> Graduate Research Conference. (September 19, 2008) Silpakorn University, Bangkok, Thailand (Poster Presentation)
3. The Outstanding Research Award in the field of Science, 4<sup>th</sup> Naresuan Research Conference. (July 28-29, 2008) Naresuan University, Phitsanulok, Thailand (Poster Presentation)
4. The Korea Foundation for Advanced Studies International Scholar Exchange Fellowship for 2008-2009