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น.สพ.ดร.วิน สุรเชษฐพงษ์
WIN SURACHETPONG

EDUCATION

- 2010 PhD (Immunology)
University of California, Davis, USA
PhD Thesis: MAPK Signaling Pathways Regulate Human Blood-
derived Factors-dependent Mosquito Response to *Plasmodium*
falciparum
Advisor: Dr. Shirley Luckhart, PhD
- 2005 Master of Science (Pathobiology)
University of Arizona, Tucson, USA
Master Thesis: Application of PCR as a Diagnostic Tool for Monodon
Baculovirus (MBV) of Penaeid Shrimp
Advisor: Dr. Donald V Lightner, PhD
- 2000 Doctor of Veterinary Medicine (DVM)
Faculty of Veterinary Science, Chulalongkorn University,
Bangkok, Thailand
First Class Honor and First Rank in Class 2000

PROFESSIONAL AND TEACHING EXPERIENCES

- 2002-present Instructor
Department of Microbiology and Immunology
Faculty of Veterinary Medicine, Kasetsart University,
Bangkok, Thailand
- 2005-2010 Graduate Student Researcher
Department of Medical Microbiology and Immunology,
School of Medicine, University of California, Davis
- 2004 Graduate Teaching Assistantship (VSC 419: Immunology)
Department of Veterinary Science and Microbiology,
University of Arizona
- 2000-2002 Veterinarian and Research Assistant
Veterinary Medical Aquatic Animal Research Center (VMARC),
Faculty of Veterinary Science, Chulalongkorn University,
Bangkok, Thailand

RESEARCH INTEREST

Vaccines, Host-pathogen Interaction, Diseases of Aquatic Animals,
Diagnostic Applications in Aquatic Animal Diseases

HONORS AND AWARDS

- 2010 Merck Young Scientist Award (Honorable mention)
Merck Chemicals Thailand
1 of 6 final candidates (selected from the quality of publication among 100 applicants)
- 2009 The American Committee of Medical Entomology Student Travel Award (ACME), The American Society of Tropical Medicine and Hygiene (ASTMH), USA (the first Thai citizen to receive the award)
- 2009 Graduate Student Association Travel Award (\$500 awarded)
University of California, Davis
- 2009 Thai Scholar Innovation in USA and Canada Award
Office of Educational Affair, The Royal Thai Embassy
- 2009 William C. Reeves New Investigator Award (First Place Winner)
Mosquito and Vector Control Association of California, USA
(the first Thai citizen to receive the award)
- 2009 Invitation to join Golden Key International Honor Society
- 2008 The Bill and Melinda Gates Foundation Global Health Travel Award
- 2008 Best Poster Award (2nd Place)
UC Davis Graduate group in Immunology
- 2007 Graduate Student Travel Award (\$1000 awarded)
University of California, Davis
- 2007 Student Travel Scholarship
The American Society of Tropical Medicine and Hygiene (ASTMH)
- 2005 Above and Beyond Award, Department of Veterinary Science and Microbiology, University of Arizona
- 2003-2009 Graduate Scholarship (for MS and PhD),
The Royal Thai Government Scholarship
- 1999 Academic Excellency Award, (Highest GPA in Class)
Chulalongkorn University
- 1995-2000 Academic Honor Awards for Veterinary Student (Top GPA in Class)
Faculty of Veterinary Science, Chulalongkorn University

PUBLICATIONS

- Surachetpong W**, Pakpour N, Cheung KW, Luckhart S, 2010. Reactive oxygen species-dependent cell signaling regulates the mosquito immune response to *Plasmodium falciparum*. Antioxidants and Redox Signaling. (accepted). Impact factor: 7.581

- Surachetpong W**, Singh N, Cheung KW, Luckhart S, 2009. MAPK ERK signaling regulates the TGF- β 1-dependent anti-malarial response in mosquitoes. *PLoS Pathogens*: e1000366. Impact factor: 9.341
- Surachetpong W** and Luckhart S, 2009. MAPK signaling regulation of mosquito innate immunity and the potential for malaria parasite transmission control. *Proceedings of the Seventy-Seventh Annual Conference of the Mosquito and Vector Control Association of California* (review paper).
- Lawhavinit O, **Surachetpong W**, Inthasri B, Areechon N, 2006. Efficiency of chitosan to *Vibrio spp.* isolated from diseased black tiger shrimp *Penaeus monodon* Fabricius in thailand. *Kasetsart Journal*. 40(5): 235-241.
- Surachetpong W**, Poulos BP, Tang KFJ, Lightner DV, 2005. Improvement of PCR method for the detection of monodon baculovirus in penaeid shrimp. *Aquaculture*. 249(4): 69-75. Impact factor: 1.925
- Wongtavatchai, J. , Rungsipipat, A., Chumkaeo, A. and **Surachetpong, W.** 2003. Common diseases of farmed frogs *Rana tigerina* in Thailand . Proceedings of the Association of Veterinary Laboratory Diagnosticians and OIE Seminar on Biotechnology. 144-145.
- Surachetpong W**, Kitkumthron M, Tanasomwang V, Wangnaithum S, Sailasuta A, and Wongtavatchai J, 2002. Morphology and cytochemical profile of sea bass (*Lates calcalifer*) white blood cells. Proceeding of the 28th Annual Conference of the Thai Veterinary Medical Association Under Royal Patronage.
- Wongtavatchai J, Subhachalat P, **Surachetpong W**, Ruangpan L, and Tangtrongpiros J, 2002. Risk assessment of metamidophos on non-target freshwater fish tilapia (*Oreochromis niloticus*). *Fisheries Science*. 68 (Supplement II): 1243-1244. Impact factor: 0.681
- Rodkhum C, Wongtavatchai J, **Surachetpong W**, Kumlungpeat S, Tonweerapongsiri O, and Tangtrongpiros J, 2001. Opportunistic *Vibrios* in cultured taiwanese soft-shelled turtles (*Pelodiscus sinensis*). *The Thai Journal of Veterinary Medicine*. Vol.31. No.3 p.29-37.
- Surachetpong W**, Thana S, Saripan P, Panitkriangkrai W, Tangtrongpiros J, Rodkhum C, and Wongtavatchai J, 2000. Treatment of ulcerative shell diseases in soft shell turtle (*Pelodiscus sinensis*) with oxytetracycline. Proceeding of the 26th Annual Conference of the Thai Veterinary Medical Association Under Royal Patronage. p.219-228.

POSTER PRESENTATIONS

- Surachetpong W**, Singh N, Luckhart S, 2008. MEK/ERK signaling and reactive oxygen species regulate the mosquito anti-malarial immune response. Pathogenesis and Control of Emerging Infections and Drug-Resistant Organisms, Keystone Symposia Bangkok, Thailand October 22-27, 2008.
- Surachetpong W**, Singh N, Luckhart S, 2008. MAPK ERK signaling regulates the TGF- β 1-dependent anti-malarial response in mosquitoes. 11th Annual Bay Area Microbial Pathogenesis Symposium, UCSF March 29, 2008.

Surachetpong W, Singh N, Luckhart S, 2008. MAPK ERK signaling regulates the TGF- β 1-dependent anti-malarial response in mosquitoes. UC Davis Graduate Group in Immunology Recruitment Weekend February 23, 2008 Davis, CA.

Surachetpong W, Singh N, Luckhart S, 2007. Human TGF- β 1 regulation of the anti-malarial response in *Anopheles* mosquitoes. The American Society of Tropical Medicine and Hygiene 56th Annual Meeting, November 4-8, 2007 Philadelphia, Pennsylvania USA.

Surachetpong W, Kang M, and Luckhart S, 2006. The role of hydrogen peroxide and ERK in TGF- β -induced anti-malarial response in mosquito vectors. Society for Free Radical Biology and Medicine (SFRBM), Denver CO.

Mondal S, Lieber M, George M, **Surachetpong W**, Kang M, Vodovotz Y, Zamora R, Luckhart S. 2005. Transforming growth factor- β signaling in *Anopheles* mosquito cells. QB3 neglected disease symposium. December 3, 2005. University of California, San Francisco.

ORAL PRESENTATION

- MAPK Signaling Pathways Regulate Human Blood-derived Factors-dependent Mosquito Response to *Plasmodium falciparum*. The First Annual Meeting for The Thailand Research Fund, Biology, Ecology and Epidemic Importance of Mosquitoes and Stable Flies in Thailand. Kasetsart University. August 26, 2010.
- MAPK Signaling Pathways Regulate Human Blood-derived Factors-dependent Mosquito Response to *Plasmodium falciparum*. (Invited talk) School of Medicine Seminar, University of California, Davis. 16 April 2009.
- MEK/ERK signaling and reactive oxygen species regulate the mosquito anti-malarial immune response. The 58th ASTMH annual meeting. Washington, D.C., 2009.
- MAPK/ERK signaling regulates the TGF-beta1-dependent mosquito response to *Plasmodium falciparum*. Mosquito and Vector Control Association of California 77th Annual Conference, Burlingame, California, June 25-28, 2009. William C. Reeves New Investigator Award (First Place Winner)
- Human TGF- β 1 regulation of anti-malarial response in *Anopheles* mosquitoes. The 2nd University of California Research on Host Microbe Interaction, Lake Tahoe, 2007.

CLASS TAUGHT

DVM courses

- 01508241 Veterinary Immunology
- 01507681 Clinical Practice in Small Animal I
- 01508211 Laboratory in Clinical Microbiology
- 01508311 Veterinary Bacteriology and Mycology

Graduate courses

- 01508532 Molecular Virology
- 01508511 Bacteria-Host Interactions and Disease Prevention
- 01508569 Seminar

PROFESSIONAL MEMBERSHIPS

American Association for the Advancement of Science (AAAS)
American Society of Tropical Medicine and Hygiene (ASTMH)
The American Association of Immunologists (AAI)
The Veterinary Practitioner Association of Thailand (VPAT)
The Thai Veterinary Medical Association Under the Royal Patronage (TVMA)
The Thai Association of Veterinary Laboratory Diagnosticians (TAVLD)
The Veterinary Council of Thailand