CURRICULUM VITAE

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**Position** Head of Molecular Microbiology

**Marital status** Married

**Education**

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| Ph.D. (Life and Biomolecular Sciences), The Open University, Milton Keynes, UK, 2008 |
| M.Sc. (Molecular Genetics and Genetic Engineering), Mahidol University (Salaya Campus), Bangkok, Thailand, 2003 |
| B.Sc. (Biotechnology), King Mongkut’s Institute of Technology Ladkrabang, Bangkok, Thailand, 1999  |

**Research and Professional Experience**

2016-present Comparison of Taqman array cards and standard realtime PCR assays in identification etiology of acute febrile patients using whole blood samples.

2012-present Studying population structure and genome contents in a dominant clone ST 34, which caused an outbreak of human leptospirosis during 2000-2002.

Epidemiology of melioidosis and in human, animal and environment using molecular tools such as multi-locus sequening typing (MLST) in Thailand

Epidemiology of leptospirosis in human, rodents and environment using MLST and genome data in Thailand

2014-2016 Using molecular assay to screening on sepsis patient blood samples for leptospirosis, scrub typhus, murine typhus, spotted fever group, other common bacteraemia and Hantavirus infection as a reference lab for South Asia Infectious Disease Research Network.

2009-2015 Comparison MLST schemes for leptospirosis epidemiology

 Modify the MLST scheme for three major pathogenic members of Leptospira

 Clinical and Molecular Epidemiology of Staphylococcus argenteus infection in Thailand

2008-09 Investigation of Staphylococcus aureus strains infected in patients originated in Thailand and Cambodia using Staphylococcal cassette chromosome mec (SCCmec) typing, MLST and Panton-Valentine Leukocidine (pvl) gene

Modify the MLST scheme for three major pathogenic members of Leptospira

Evaluation two realtime PCR assays targeting 16s rRNA and LipL32 genes, respectively on clinical blood samples at endemic area.

Investigating leptospirosis in a prospective study of unknown cause of fever in patients originated in Sri Lanka

2003-08 Multilocus sequence typing of Leptospira

2000-03 Papaya ring-spot virus (PRSV) gene vector for transient expression of foreign proteins in plants

1998-99 Investigation of bacterial contamination of pork during butchering

**Training**

Advanced Immunology Course 2015, 22nd -30th June 2015, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

A 10 month visitor at Wellcome Trust Sanger Institute, Cambridge University, UK with Pathogen Genome Group on: studying population structure and genome contents in a dominant clone ST34 during 1st Nov 2009 – 25th Sep 2010.

Wellcome Trust Advanced Course: Working with Pathogen Genomes

10th - 14th November 2008, Bangkok, Thailand

Genome Wide Association Analysis 2008, 14th-16th October 2008, Mahidol University, Thailand

Programme Ethics Workshop Oxford Tropical Network, 5th June 2008, Mahidol University, Bangkok, Thailand

Good Clinical Practice Training Curriculum with the Southeast Asia Influenza Clinical Research Network, 6th -7th December 2006, Bangkok, Thailand

Training in microscopic agglutination test, leptospiral culture, serovar identification and cross agglutinin absorption test at the WHO/FAO/OIE Collaborating centre for Reference and Research on Leptospirosis, Queensland Health Pathology and Scientific Services, 1st -12th August 2005, Brisbane, Australia

**First Author Publications**

1. **Thaipadungpanit J, Amornchai P, Nickerson EK, Wongsuvan G, Wuthiekanun V, Limmathurotsakul D, Peacock SJ.** 2015. Clinical and molecular epidemiology of staphylococcus argenteus infections in thailand. **53**: 1005-1008.
2. **Thaipadungpanit J, Chierakul W, Pattanaporkrattana W, Phoodaeng A, Wongsuvan G, Huntrakun V, Amornchai P, Chatchen S, Kitphati R, Wuthiekanun V, Day NP, Peacock SJ, Limmathurotsakul D.** 2014. Burkholderia pseudomallei in water supplies, southern thailand. **20**: 1947-1949.
3. **Thaipadungpanit J, Wuthiekanun V, Chantratita N, Yimsamran S, Amornchai P, Boonsilp S, Maneeboonyang W, Tharnpoophasiam P, Saiprom N, Mahakunkijcharoen Y, Day NP, Singhasivanon P, Peacock SJ, Limmathurotsakul D.** 2013. Leptospira species in floodwater during the 2011 floods in the bangkok metropolitan region, thailand. Am J Trop Med Hyg **89**: 794-796.
4. **Thaipadungpanit J, Boonsilp S, Amornchai P, Wuthiekanun V, Bailey MS, Holden MT, Zhang C, Jiang X, Koizumi N, Taylor K, Galloway R, Hoffmaster AR, Craig S, Smythe LD, Hartskeerl RA, Day NP, Chantratita N, Feil EJ, Aanensen DM, Spratt BG, Peacock SJ.** 2013. A single multilocus sequence typing (mlst) scheme for seven pathogenic leptospira species. **7**: e1954.
5. **Thaipadungpanit J, Chierakul W, Wuthiekanun V, Limmathurotsakul D, Amornchai P, Boonslip S, Smythe LD, Limpaiboon R, Hoffmaster AR, Day NP, Peacock SJ.** 2011. Diagnostic accuracy of real-time pcr assays targeting 16s rrna and lipl32 genes for human leptospirosis in thailand: A case-control study. PLoS One **6**: e16236.
6. **Thaipadungpanit J, Ahmed A, Boonsilp S, Wuthiekanun V, Nalam K, Spratt BG, Aanensen DM, Smythe LD, Ahmed N, Feil EJ, Hartskeerl RA, Peacock SJ.** 2011. Comparison of two multilocus sequence based genotyping schemes for leptospira species. **5**: e1374.
7. **Thaipadungpanit J, Boonsilp S, Amornchai P, Wuthiekanun V, Chierakul W, Limmathurotsakul D, Day NP, Peacock SJ.** 2011. Molecular detection and speciation of pathogenic leptospira spp. In blood from patients with culture-negative leptospirosis. **11**: 338.
8. **Thaipadungpanit J, Wuthiekanun V, Chierakul W, Smythe LD, Petkanchanapong W, Limpaiboon R, Apiwatanaporn A, Slack AT, Suputtamongkol Y, White NJ, Feil EJ, Day NP, Peacock SJ.** 2007. A dominant clone of leptospira interrogans associated with an outbreak of human leptospirosis in thailand. PLoS Negl Trop Dis **1**: e56.

**Co-author Publications**

1. **Southeast Asia Infectious Disease Clinical Research N.** 2017. Causes and outcomes of sepsis in southeast asia: A multinational multicentre cross-sectional study. **5**: e157-e167.
2. **Fouts DE, Matthias MA, Adhikarla H, Adler B, Amorim-Santos L, Berg DE, Bulach D, Buschiazzo A, Chang YF, Galloway RL, Haake DA, Haft DH, Hartskeerl R, Ko AI, Levett PN, Matsunaga J, Mechaly AE, Monk JM, Nascimento AL, Nelson KE, Palsson B, Peacock SJ, Picardeau M, Ricaldi JN, Thaipandungpanit J, Wunder EA, Jr., Yang XF, Zhang JJ, Vinetz JM.** 2016. What makes a bacterial species pathogenic?:Comparative genomic analysis of the genus leptospira. **10**: e0004403.
3. **Chantratita N, Wikraiphat C, Tandhavanant S, Wongsuvan G, Ariyaprasert P, Suntornsut P, Thaipadungpanit J, Teerawattanasook N, Jutrakul Y, Srisurat N, Chaimanee P, Anukunananchai J, Phiphitaporn S, Srisamang P, Chetchotisakd P, West TE, Peacock SJ.** 2016. Comparison of community-onset staphylococcus argenteus and staphylococcus aureus sepsis in thailand: A prospective multicentre observational study. **22**: 458 e411-459.
4. **Tong SY, Holden MT, Nickerson EK, Cooper BS, Koser CU, Cori A, Jombart T, Cauchemez S, Fraser C, Wuthiekanun V, Thaipadungpanit J, Hongsuwan M, Day NP, Limmathurotsakul D, Parkhill J, Peacock SJ.** 2015. Genome sequencing defines phylogeny and spread of methicillin-resistant staphylococcus aureus in a high transmission setting. Genome Res **25**: 111-118.
5. **Stoddard RA, Bui D, Haberling DL, Wuthiekanun V, Thaipadungpanit J, Hoffmaster AR.** 2014. Viability of leptospira isolates from a human outbreak in thailand in various water types, ph, and temperature conditions. **91**: 1020-1022.
6. **Tonpitak W, Sornklien C, Chawanit M, Pavasutthipaisit S, Wuthiekanun V, Hantrakun V, Amornchai P, Thaipadungpanit J, Day NP, Yingst S, Peacock SJ, Limmathurotsakul D.** 2014. Fatal melioidosis in goats in bangkok, thailand. **91**: 287-290.
7. **Chetchotisakd P, Chierakul W, Chaowagul W, Anunnatsiri S, Phimda K, Mootsikapun P, Chaisuksant S, Pilaikul J, Thinkhamrop B, Phiphitaporn S, Susaengrat W, Toondee C, Wongrattanacheewin S, Wuthiekanun V, Chantratita N, Thaipadungpanit J, Day NP, Limmathurotsakul D, Peacock SJ.** 2014. Trimethoprim-sulfamethoxazole versus trimethoprim-sulfamethoxazole plus doxycycline as oral eradicative treatment for melioidosis (merth): A multicentre, double-blind, non-inferiority, randomised controlled trial. **383**: 807-814.
8. **Limmathurotsakul D, Paeyao A, Wongratanacheewin S, Saiprom N, Takpho N, Thaipadungpanit J, Chantratita N, Wuthiekanun V, Day NP, Peacock SJ.** 2014. Role of burkholderia pseudomallei biofilm formation and lipopolysaccharide in relapse of melioidosis. Clin Microbiol Infect.
9. **Limmathurotsakul D, Wongsuvan G, Aanensen D, Ngamwilai S, Saiprom N, Rongkard P, Thaipadungpanit J, Kanoksil M, Chantratita N, Day NP, Peacock SJ.** 2014. Melioidosis caused by burkholderia pseudomallei in drinking water, thailand, 2012. Emerg Infect Dis **20**: 265-268.
10. **Wuthiekanun V, Amornchai P, Paris DH, Langla S, Thaipadunpanit J, Chierakul W, Smythe LD, White NJ, Day NP, Limmathurotsakul D, Peacock SJ.** 2013. Rapid isolation and susceptibility testing of leptospira spp. Using a new solid medium, lvw agar. **57**: 297-302.
11. **Limmathurotsakul D, Turner EL, Wuthiekanun V, Thaipadungpanit J, Suputtamongkol Y, Chierakul W, Smythe LD, Day NP, Cooper B, Peacock SJ.** 2012. Fool's gold: Why imperfect reference tests are undermining the evaluation of novel diagnostics: A reevaluation of 5 diagnostic tests for leptospirosis. Clin Infect Dis **55**: 322-331.
12. **Agampodi SB, Peacock SJ, Thevanesam V, Nugegoda DB, Smythe L, Thaipadungpanit J, Craig SB, Burns MA, Dohnt M, Boonsilp S, Senaratne T, Kumara A, Palihawadana P, Perera S, Vinetz JM.** 2011. Leptospirosis outbreak in sri lanka in 2008: Lessons for assessing the global burden of disease. **85**: 471-478.
13. **Nickerson EK, Wuthiekanun V, Kumar V, Amornchai P, Wongdeethai N, Chheng K, Chantratita N, Putchhat H, Thaipadungpanit J, Day NP, Peacock SJ.** 2011. Emergence of community-associated methicillin-resistant staphylococcus aureus carriage in children in cambodia. Am J Trop Med Hyg **84**: 313-317.
14. **Sonthayanon P, Chierakul W, Wuthiekanun V, Thaipadungpanit J, Kalambaheti T, Boonsilp S, Amornchai P, Smythe LD, Limmathurotsakul D, Day NP, Peacock SJ.** 2011. Accuracy of loop-mediated isothermal amplification for diagnosis of human leptospirosis in thailand. **84**: 614-620.
15. **Pagnarith Y, Kumar V, Thaipadungpanit J, Wuthiekanun V, Amornchai P, Sin L, Day NP, Peacock SJ.** 2010. Emergence of pediatric melioidosis in siem reap, cambodia. **82**: 1106-1112.
16. **Sim BM, Chantratita N, Ooi WF, Nandi T, Tewhey R, Wuthiekanun V, Thaipadungpanit J, Tumapa S, Ariyaratne P, Sung WK, Sem XH, Chua HH, Ramnarayanan K, Lin CH, Liu Y, Feil EJ, Glass MB, Tan G, Peacock SJ, Tan P.** 2010. Genomic acquisition of a capsular polysaccharide virulence cluster by non-pathogenic burkholderia isolates. **11**: R89.
17. **Chheng K, Tarquinio S, Wuthiekanun V, Sin L, Thaipadungpanit J, Amornchai P, Chanpheaktra N, Tumapa S, Putchhat H, Day NP, Peacock SJ.** 2009. Emergence of community-associated methicillin-resistant staphylococcus aureus associated with pediatric infection in cambodia. **4**: e6630.
18. **Nickerson EK, Wuthiekanun V, Wongsuvan G, Limmathurosakul D, Srisamang P, Mahavanakul W, Thaipadungpanit J, Shah KR, Arayawichanont A, Amornchai P, Thanwisai A, Day NP, Peacock SJ.** 2009. Factors predicting and reducing mortality in patients with invasive staphylococcus aureus disease in a developing country. **4**: e6512.
19. **Wangroongsarb P, Chanket T, Gunlabun K, Long do H, Satheanmethakul P, Jetanadee S, Thaipadungpanit J, Wuthiekanun V, Peacock SJ, Blacksell SD, Smythe LD, Bulach DM, Kalambaheti T.** 2007. Molecular typing of leptospira spp. Based on putative o-antigen polymerase gene (wzy), the benefit over 16s rrna gene sequence. FEMS Microbiol Lett **271**: 170-179.