



ARMED FORCES RESEARCH INSTITUTE OF MEDICAL SCIENCES
(AFRIMS)

Biographical sketch



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| Name: | COL Thippawan Chuenchitra |
| Position title: | Chief, Microbiology Section, Research Division |
| Degree and year: | B.Sc. (Medical Technology), Chulalongkorn University, Bangkok, Thailand, A.D. 1981 M.Sc. (Medical Microbiology), Chulalongkorn University, Bangkok, Thailand, A.D. 1987 Ph.D. (Medical Microbiology), Mahidol University, Bangkok, Thailand, A.D. 2002 |
| Area Interests: | <ul style="list-style-type: none">- Virology: for examples HIV, Hepatitis, Influenza etc, especially the study of phenotypes and genotypes of HIV-1 in Thailand including molecular epidemiology of HIV-1, HCV and HBV and the study of HIV-1 co-infection in Thais.- Immunology: the study of immunogenicity of HIV-1 vaccines, both humoral immune responses such as neutralizing antibodies and cellular immune responses and the study of surrogate markers and prognostic markers of HIV disease progression including the study of protective immune responses of HIV-1.- Development of Laboratory Techniques for cost-effective and rapid and simple tests: for examples- the study of whole blood lymphoproliferation assay and the study of simple method for separate monocytes from whole blood.- Laboratory Techniques for Diagnosis: such as ELISA, Western Blot, Lymphoproliferation assay, Neutralization assay and cell culture techniques..- Monoclonal Antibody Production Technique: for example- the production of monoclonal anti-p24 antigen of HIV-1 subtype CRF01_AE. |
| Institute : | AFRIMS |
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| Office Phone: | 662-3547861-69 ext 2125 |
| Office Fax: | 662-3547854 |

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| E-mail: | ThippawanC@afirms.org | |
| Practice Location: | | |
| Year Started Practice: | | |
| Board Certification: | | |
| Medical School: | | |
| Internship: | | |
| Residency: | | |
| Committe/Memberships: | <p>1990 - Present</p> <p>1995- 2007</p> <p>1998- Present</p> <p>2001- Present</p> <p>2003- Present</p> <p>2003- Present</p> <p>2003- Present</p> <p>2006- 2008</p> <p>2007 – Present</p> <p>2008 – Present</p> <p>2008 – Present</p> <p>2008 – present</p> | <p>Member of Thai Medical Technology Association, Thailand.</p> <p>Member of Thai Virology Association, Thailand.</p> <p>Member of the Allergy and Immunology Society of Thailand.</p> <p>Committee of HIV Laboratory Network, MOPH, Bangkok, Thailand.</p> <p>Member of Forum for Ethical Review Committees in Thailand (FERCIT)</p> <p>Secretary-and Committee of Ethical Review Committees of Research Project of AFRIMS</p> <p>Committee of Ethical Review Committees of Research Project of Royal Thai Army Medical Department</p> <p>Committee of the Association of Military Surgeons of Thailand under the Royal Patronage of his Majesty the King.</p> <p>Committee of Thai Virology Association, Thailand</p> <p>Committee of Biosafety and Biosecurity Network, Thailand</p> <p>Member of Forum for Ethical Review Committees in the Asian and Western Pacific Region (FERCAP)</p> <p>Member of International AIDS Society, Geneva, Switzerland.</p> |
| Language Spoken: | Thai and English | |

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| Training post doctoral: | Training : Nov, 1991 Lymphocyte Immunophenotyping and Lymphoproliferative Assay at Department of Retroviral Research, Walter Reed Army Institute of Research (WRAIR), Rockville, USA May, 1992 Lymphoproliferative Assay at Department of Retroviral Research, WRAIR, Rockville, USA May, 1993 Workshop on Determination of Hepatitis B Virus by Polymerase Chain Reaction, NIH, THAILAND July, 1994 Non isotopic DNA Probe Workshop, Molecular Biology Laboratory GIBTHAI CO., LTD., Bangkok, THAILAND Feb, 1995 WHO Workshop on Advance Techniques in Screening of HIV-1 Genetic Variability in THAILAND at Department of Microbiology, Faculty of Medicine, Siriraj Hospital, THAILAND Apr – Sep 1995 A Series of Assays to Assess Immune Responses to Candidate HIV-1 Vaccines including Lymphoproliferative Assays, ELISA, Virus Culture, Neutralization and Serologic Assays for Diagnosis of HIV-1 Infection at CHIRON Corporation, Emeryville, USA Jan, 1997 South East Asian and Western Pacific Regions Quality Assurance Workshop by National Serology Reference Laboratory Australia at Bangkok, THAILAND Feb, 1997 Workshop on Nucleic acid amplification for Diagnosis and Monitoring of HIV-1 Infection at Department of Microbiology, Faculty of Medicine, Siriraj Hospital, THAILAND Mar, 1997 FACSCalibur Flow Cytometer at Becton Dickinson Company, in SINGAPORE Aug, 1997 International HIV/AIDS Summer School, University of Saskatchewan Saskatoon, in CANADA Aug - Oct 2001 Ph.D. Thesis Research in Neutralization, ADCC Assay, Chemokine Receptor Usage at Department of Retroviral Research, Rockville, USA |
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| | 24 Feb - 7 Mar 2003 | Radiation Protection Course Level 2 by Office of Atom for 2003 Peace, Ministry of Science and Technology, Thailand at Office of Atoms for Peace, Bangkok |
| | 14 Nov 2003 | The 2 nd National Study Coordinator Training, by Pharmaceutical Producers Association Clinical Trial Working Group (PPA-CTWG), Thailand, Novotel Lotus Hotel, Bangkok |
| | 3-7 May 2004 | Monocyte Culture Technique and Flow Cytometric Measurement of Monocytes Markers at University of Hawaii NeuroAIDS Specialized Neuroscience Research Program (Honolulu, Hawaii) USA |
| | 10-11 Feb 2005 | Clinical Research Skills Workshop for Investigators. Hosted by Department of Disease Control and Pfizer Pharmaceutical Group, Thailand, Miracle Grand Hotel, Bangkok, Thailand. |
| | 9-11 Oct 2006 | Workshop on Monoclonal Antibody Production, National Center for Genetic Engineering and Biotechnology, Ministry of Science and Technology, THAILAND. |
| | 24-26 Jan 2007 | Visit Defense Medical and Environmental Research Institute (DMERI), SINGAPORE. |
| | 9-12 Jul 2007 | USPACOM/COE Pandemic Influenza Workshop: Civil-Military coordination (organized by The Center for Excellence in Disaster Management and Humanitarian Assistance, United States Pacific Command, and United States Marine Forces Pacific Command), JW Mariotte Hotel, BKK, THAILAND. |
| | 18 Sep 2007 | The Prime-Boost HIV Vaccine Phase III Trial CGP Refresher Training, Department of Disease Control, Ministry of Public Health, Thailand at Garden Sea View Resort, Chonburi, THAILAND. |
| | 10-14 Mar 2008 | Biosafety Level 3 Safety Training (organized by the Emory University) Onsite BSL3 Program at Mahidol University, Bangkok, THAILAND. |

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| | 18-21 Mar 2008 | Performance of the TZM-bl Pseudovirus Neutralizing Antibody Assay in a GCLP Environment Workshop (hosted by Walter Reed Army Institute of Research, CAVD the Collaboration for AIDS Vaccine Discovery, Department of Retrovirology, USAMC-AFRIMS, and Sanofi Pasteur), Armed Forces Research Institute of Medical Sciences, Bangkok, and Siamcity Hotel, Bangkok, THAILAND. |
| | 28 Mar 2008 | Annual FERCIT Meeting, Chulalongkorn University, Bangkok, THAILAND. |
| | 26-29 May 2008 | CDC/WHO Rapid Response Training Pandemic Influenza Workshop (organized by United States Pacific Command (USPACOM), The Center for Excellence in Disaster Management and Humanitarian Assistance (COE-DMHA), Armed Forces Division, and Armed Forces Medical Institute, Bangladesh) Westin Dhaka Hotel, Dhaka, BANGLADESH. |
| | 12 Jun 2008 | Human Participant Protection and GCP Training for IRB Member (organized by Phramongkutklo Hospital, Phramongkutklo College of Medicine, Office of research Development, Institutional Review Board, Royal Thai Army Medical Department, Forum for Ethical Review Committees in Thailand), Phramongkutklo Hospital, Bangkok, THAILAND. |
| | 24-25 Nov 2008 | the 8 th Annual Conference of the Forum for Ethical Review Committees in Asia and the Western Pacific Region, Rama Gardens Hotel, Bangkok, THAILAND. |
| | 22-28 Aug 2009 | Adenovirus and HIV-1 Luciferase base virus Neutralization Assay Training at Laboratory of U.S.Army HIV Research Program Walter Reed Army Institute of Research (WRAIR) and NIAID Vaccine Immunogenicity T-Cell and Antibody Laboratory (NVITAL), Rockville,USA. |
| | 18-19 Oct 2009 | Standardized Measurement of Neutralizing Antibodies to Advance HIV Vaccine Development: An OCTAVE Workshop, |

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| | <p>1-2 Mar 2010</p> <p>11 Aug 2010</p> | <p>organized by OCTAVE Collaborative Satellite Symposium, Paris, France.</p> <p>GoodClinical Laboratory Practice (GCLP) training, organized by Qualogy the science of quality, UK and USAMC, AFRIMS, Bangkok, THAILAND.</p> <p>Essentials of GCP for the New Coming Investigator, organized by Royal Thai Army Medical Department and Pharmaceutical Research & Manufacturers Association, Phramongkutkloao Hospital, Bangkok, THAILAND.</p> |
| <p>Research experience:</p> | <p>1981-1982</p> <p>1982- 1983</p> <p>1984-1987</p> <p>1988-1990</p> | <p>Research Assistant, “The study of Lead determination in blood of the workers in Battery Industry in The Royal Thai Dockyard“ Project. They determined the lead level in blood by using Atomic Absorption Instrument. This project Collaborated with the scientists in Naval Science Department.</p> <p>Research Assistant, Hepatitis Project with Department of Virology, USAMC-AFRIMS. They studied anti-hepatitis B and anti-hepatitis nonA/nonB (C) by Radio-Isotope Assay (RIA). I got training and learned more about this assay.</p> <p>M.Sc. research: “Effect of <u>Salmonella typhimurium</u> G30 on Macrophages in the Protection against Mouse Typhoid.” To study the role of macrophages in the Peyer’s patches of mice after feeding <u>S. typhimurium</u> G30 in the protection against murine typhoid. (learned about LD50 determination, Oral immunization, Mouse protection test, Peyer’s patch cell cultures, Intracellular killing assay, gained experience with research design, significant assays, statistical analyse data, write the report and thesis)</p> <p>Principal Investigator of project: “Antibody Response against Hepatitis B Surface Antigen Induced by Reduced Doses</p> |

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| | <p>1991-1996</p> <p>1997-2002</p> <p>1999- 2001</p> <p>2003-2007</p> <p>2004- 2005</p> | <p>of a Yeast Derives Hepatitis B Vaccine” and Co-investigator of project: “Prospective Study of Viral Hepatitis B in Military Cadets 1985-1990”</p> <p>Co-Investigator of projects “Prevalence and Incidence of HIV-1 Infection in Young Men Entering the Royal Thai Army”, “Natural History study of HIV-1 infection in Thai Individuals” and HIV-1 Vaccines phase I/II projects. (We have experience in HIV-1 serology tests, Western blot assay, Humoral and cellular immunogenicity tests such as Lymphoproliferation assay, binding antibody test (anti-gp120 test), Flow cytometry.</p> <p>Ph.D. research: “ Humoral Immune Responses and Human Immunodeficiency Virus Type 1 (HIV-1) Evolution during the Course of Infection in Thai Individuals.” . (learned about HIV-1 isolation, MT-2 assay, HIV-1 coreceptor usage, Neutralization assay, TCID50 test, In- house ELISA (anti-HIV-1 p24 Ag ELISA, anti-gp120, anti-gp41 ELISA), Antibody dependent cell cytotoxicity (ADCC) assay, Flow cytometry, PCR, HIV-1 DNA sequencing, HIV-1 phylogenetic tree create, molecular data analysis from DNA star program, gained more experience with research design, statistical data analysis, writing thesis and the paper to publish in international paper).</p> <p>Co-investigator of project “Flow Cytometric Detection of Intracellular Cytokines in Peripheral Blood of HIV-1 Infected Thai Children” (experience with intracellular staining for Flow cytometry).</p> <p>Co-Investigator of project “Predictors of Neuro-cognitive Decline and Survival in HIV-infected Subjects.” (We learned more about monocyte separation by magnetic beads and intracellular staining for Flow cytometry).</p> <p>Co-Investigator of project “Distribution of CD38 Molecules on CD3+ and CD8+ T-</p> |
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| | <p>lymphocyte in adulthood HIV-1 uninfected Thais”.</p> <p>2003- Present</p> <p>Principal Investigator of projects: “Comparison of Peripheral Blood Mononuclear Cells and Whole Blood Lymphocyte Proliferation Assays in Healthy Thai Blood Donor“, The Study of Correlation of the Extra C-C Pair in V4 Envelope Region of HIV-1 Subtype CRF01_AE (E), Neutralization Sensitivity and Disease Progression”, “Cytokine Profiles in HIV- 1 Infected Patients with Different Rates of Disease Progression”, The Effect of the HLA B46+ Allele on the Natural History and Progression of HIV-1 Infections in Thailand and “Simple Isolation of Human Peripheral Blood Monocytes Using Density Gradients of Percoll”.</p> <p>Co-Investigator of projects: “Risk Factors for HIV-1 Infection among Young Thai Men”, “The Study of HIV Incidence among Royal Thai Army Conscripts using the Immunoglobulin G-Capture BED-Enzyme Immunoassay”, and “Surveillance of Respiratory Pathogens in Patients Attending Royal Thai Army Hospitals”.</p> | | | | | | |
| Fields of Study: | Immunology, Virology | | | | | | |
| Research Project: | <table border="0"> <tr> <td data-bbox="635 1485 1348 1713"> Ministry of Public Health (Thailand) The Study of Correlation of the Extra C-C Pair in V4 Envelope Region of HIV-1 Subtype CRF01_AE (E), Neutralization Sensitivity and Disease Progression. Role: Principal Investigator </td> <td data-bbox="1348 1485 1505 1713" style="text-align: right; vertical-align: top;"> 2004-2009 </td> </tr> <tr> <td data-bbox="635 1736 1348 1937"> National Institute of Health Grant, USA (R21) Predictors of Neuro-cognitive Decline and Survival in HIV-infected Subjects. Role: Investigator </td> <td data-bbox="1348 1736 1505 1937" style="text-align: right; vertical-align: top;"> 2004-2007 </td> </tr> <tr> <td data-bbox="635 1948 1348 2089"> National Institute of Health Grant, USA Risk Factors for HIV-1 Infection among Young Thai Men. Role: Investigator </td> <td data-bbox="1348 1948 1505 2089" style="text-align: right; vertical-align: top;"> 2004-2009 </td> </tr> </table> | Ministry of Public Health (Thailand) The Study of Correlation of the Extra C-C Pair in V4 Envelope Region of HIV-1 Subtype CRF01_AE (E), Neutralization Sensitivity and Disease Progression. Role: Principal Investigator | 2004-2009 | National Institute of Health Grant, USA (R21) Predictors of Neuro-cognitive Decline and Survival in HIV-infected Subjects. Role: Investigator | 2004-2007 | National Institute of Health Grant, USA Risk Factors for HIV-1 Infection among Young Thai Men. Role: Investigator | 2004-2009 |
| Ministry of Public Health (Thailand) The Study of Correlation of the Extra C-C Pair in V4 Envelope Region of HIV-1 Subtype CRF01_AE (E), Neutralization Sensitivity and Disease Progression. Role: Principal Investigator | 2004-2009 | | | | | | |
| National Institute of Health Grant, USA (R21) Predictors of Neuro-cognitive Decline and Survival in HIV-infected Subjects. Role: Investigator | 2004-2007 | | | | | | |
| National Institute of Health Grant, USA Risk Factors for HIV-1 Infection among Young Thai Men. Role: Investigator | 2004-2009 | | | | | | |

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| | <p>Ministry of Public Health (Thailand) 2006-2009 The Study of HIV Incidence among Royal Thai Army Conscripts using the Immunoglobulin G-Capture BED-Enzyme Immunoassay. Role: Investigator</p> <p>The Association of Military Surgeons of Thailand and Royal Thai Army Medical Department 2006 -2007 Cytokine Profiles in HIV-1 Infected Patients with Different Rates of Disease Progression. Role: Principal Investigator</p> <p>Global Emerging Infectious Disease Surveillance, USAMC-AFRIMS 2006-2009 Surveillance of Respiratory Pathogens in Patients Attending Royal Thai Army Hospitals. Role: Investigator</p> <p>US-Department of Defense 2006-2009 The Effect of the HLA B46+ Allele on the Natural History and Progression of HIV-1 Infections in Thailand Role: Principal Investigator</p> <p>The Association of Military Surgeons of Thailand 2007-2008 Simple Isolation of Human Peripheral Blood Monocytes Using Density Gradients of Percoll. Role: Principal Investigator</p> |
| <p>Honors/Award:</p> | <p>1984 – 1987 Postgraduated scholarship for Master degree from Royal Thai Supreme Command Headquarters</p> <p>1993 Outstanding Research Award in Project “Risk Factors Geographic Differences and Temporal Trends in Prevalence of HIV-1 Infection in Young Thai Men” from Department of Medicine, Royal Thai Army.</p> <p>1995 Outstanding Research Award in Project “Development of Technique in Measurement of Plasma Viral RNA Quantitation by Reverse Transcriptase Polymerase Chain Reaction” from Department of Medicine, Royal Thai Army.</p> <p>1997 International Scholarship for Attendance the Workshop at International HIV/AIDS Summer</p> |

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| | | School, University of Saskatchewan Saskatoon, in CANADA |
| 1998 – 2002 | | Postgraduated Scholarship for Ph.D. Degree from Thanpuying Viraya Javakul Foundation for the Research Study at AFRIMS. |
| 2004 | | International Scholarship for 11 th Conference on Retroviruses and Opportunistic Infections, February 8-11, 2004, Moscone West, San Francisco, CA, USA |
| 2005 | | International Scholarship for 16 th Biennial meeting of International Society for Sexually Transmitted Diseases Research, 10-13 July, 2005, Amsterdam, Netherlands |
| 2005 | | International Scholarship for AIDS Vaccine 2005 Conference, 6-9 September, 2005, Montreal, Canada |
| 2005 | | The complimentary reward for review article in the topic “Immunological Assays to Measure Host Immune responses to HIV” (published in Royal Thai Army Medical Journal, May-June 2004 57(2):101-106) from Department of Medicine Royal Thai Army. |
| 2006 | | The complimentary reward for review article in the topic “Thai Avian Influenza (H5N1) Virus” (published in Royal Thai Army Medical Journal, May-June 2005, 58(4): 309-320) from Department of Medicine Royal Thai Army. |
| 2007 | | Bill and Merinda Gates Foundation Global Health Travel Award for attend the Keystone Symposia X8 Molecular and Cellular Determinants of HIV Pathogenesis, Whistler, British Columbia, Canada, 25-30 March, 2007. |
| 2008 | | International Scholarship for XVII International AIDS Conference. 3-8 August, 2008, Mexico City, Mexico. |
| 2008 | | The complimentary reward for Poster presentation in the topic “Cytokine Profiles in HIV-1 Infected Patients with Different Rates |

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| | | of Disease Progression” , 36 th Phramongkutkiao Hospital Annual Scientific Meeting, Bangkok, Thailand, November 26-28, 2008. (Abstract number 80). |
| 2009 | | International Scholarship for the 5 th Conference on HIV Pathogenesis, Treatment and Prevention (IAS 2009), Cape town, South Africa, 19-22 July 2009 |
| 2009 | | Bill and Melinda Gates Foundation Travel Award for attend the Standardized Measurement of Neutralizing Antibodies to Advance HIV Vaccine Development: An OCTAVE Workshop, organized by OCTAVE Collaborative Satellite Symposium, Paris, France. 18-19 October, 2009 |
| 2010 | | International Scholarship for the 2010 International Microbicides Conference (M2010), Pittsburgh, Pennsylvania, USA, 22-25 May 2010 |
| 2010 | | International Scholarship for AIDS Vaccine Conference, Atlanta, Georgia, USA, 28 September -1 October, 2010 |
| 2010 | | The second reward for Poster presentation in the topic “Comparison of V3 Envelope Sequences of HIV-1 Subtype CRF01_AE between R5 Viruses from Progressors and R5 Viruses from Slower Progressors” , 38 th Phramongkutkiao Hospital Annual Scientific Meeting, Bangkok, Thailand, November 24-26, 2010. (Abstract number 58). |
| 2010 | | The first reward for online lesson on the topic “Advanced Techniques in Molecular Biology”, |

38th Phramongkutklao Hospital Annual
Scientific Meeting, Bangkok, Thailand,
November 24-26, 2010.

Publication:

- 1) Carr J, Sirisopana N, Torugsa K, Jugsudee A, **Supapongse T**, Chuenchitra C, Nitayaphan S, Jugsudee A, Singharaj P, Mcneil J. Incidence of HIV-1 Infection among Young Men in Thailand. J Acquir Immune Defic Syndr 1994, 7(12) : 1270-1275.
- 2) Sirisopana N, Torugsa K, Mason CJ, Markowitz LE, Jugsudee A, **Supapongse T**, Chuenchitra C, Michael RA, Burke DS, Singharaj P, Johnson AE, McNeil JG, McCutchan FE, Carr JK. Correlates of HIV-1 Seropositivity among Young Men in Thailand. J Acquir Immune Defic Syndr 1996, 11(5) : 492-498.
- 3) Siripong Tanormklom, Arthur E. brown, Achara Jugsudee, Linda Jagodzinski, Thomas C. Vancott, Maryanne T. vahey, Kalyanee Torugsa, **Thippawan Supapongse**, Jean K. Carr, Carl J. Mason. Brief Report: HIV Serotypes and RNA Levels in Thai Seroconverters. J Infect Dis Antimicrob Agents Sep-Dec1997: 143-145.
- 4) Mason CJ, Kitsipornchai S, Markowitz LE, Chanbancherd P, **Supapongse T**, Jugsudee A, Sirisopana N, Chuenchitra C, Torugsa K, Vancott TC, Michael RA, Nitayaphan S. Nationwide Surveillance of HIV-1 Prevalence and Subtype in Young Thai Men. J Acquir Immune Defic Syndr 1998, 19(2) : 165-173.
- 5) Nitayaphan s, Khamboonruang C, Sirisophana N, Mogan P, Chiu J, Dulienge AM, Chuenchitra C, **Supapongse T**, Rungruengthanakit K, de Souza M, Mascola JR, BoggioK, Ratto-Kim S, Markowitz LE, Birx D, Suriyanon V, McNeil JG, Brown AE, Michael RA. A Phase I/II Trial of HIV SF2 gp120/MF59 Vaccine in Seronegative Thais. AFRIMS-RIHES Vaccine Evaluation Group. Vaccine 2000, 18 (15): 1448-1455.
- 6) Sukwit S, **Chuenchitra T**, Samakoses R, Songprasom K, Aree C, Akapirat S, Panjapornsuk K, Ubol S, Nitayaphan S. Flow Cytometric Detection of Intracellular Cytokines in Peripheral Blood of HIV-1 Infected Thai Children. Asian Pac J Allergy Immunol 2001, 19(2): 107-113.
- 7) **Thippawan Chuenchitra**, Wasi C, Louisirojchanakul S, Nitayaphan S, Sutthent R, Cox JH, de Souza M, Brown AE, Birx DL, Polonis VR. A Longitudinal Study of Humoral Immune Responses in HIV-1 Subtype CRF01-AE (E) infected Thai Patients

with Different Rates of Disease Progression. *AIDS Res Hum Retroviruses* 2003; 19(4): 293-305.

- 8) Pitisuttithum P, Nitayaphan S, Thongcharoen P, Khamboonruang C, Kim J, de Souza M, **Chuenchitra T**, Garner R, Thapinta D, Polonis V, Ratto-Kim S, Chanbancherd P, Chiu J, Birx D, Duliege Anne-Marie, McNeil J, Brown A, and the Thai AIDS Vaccine Evaluation Group. Safety and Immunogenicity of Combinations of Recombinant Subtype E and B HIV-1 Envelope gp120 Vaccines in Healthy Thai Adults. *J Infect Dis.* 2003; 188(2): 219-227.
- 9) Polonis VR, de Souza MS, Darden JM, Chantakulkij S, **Chuenchitra T**, Nitayaphan S, Brown AE, Robb ML, Birx DL. Human Immunodeficiency Virus Type 1 Primary Isolate Neutralization Resistance is Associated with the Syncytium-Inducing Phenotype and Lower CD4 Cell Counts in Subtype CRF01_AE-Infected Patients. *J Virol.* 2003;77(15): 8570-8576.
- 10) Kim, JH, Pitisuttithum P, Khamboonruang C, **Chuenchitra T**, Mascola J, Frankel SS, de Souza M, Polonis V, McLinden R, Samber A, Brown A, Phonrat B, Rungruengthanakit K, Duliege Anne-Marie, Robb ML, McNeil J, Birx DL. Specific Antibody Responses to Vaccination with Bivalent CM235/SF2 gp120: Detection of Homologous Neutralizing Antibody to Subtype E (CRF01_AE) HIV Type 1. *AIDS Res Hum Retroviruses* 2003; 19: 807-816.
- 11) **Thippawan Chuenchitra**. Highlights of AIDS Vaccine 2003 Conference, NewYork, United States. *Journal of AIDS and Preventive Medicine (in Thai)* September-December 2003, 2(3): 72-77.
- 12) **Thippawan Chuenchitra**. Immunological Assays to Measure Host Immune Responses to HIV. *Royal Thai Army Medical Journal (in Thai)* May-June 2004, 57(2): 101-106.
- 13) Srisurapanon S, Louisirotnchanakul S, Sumransurp K, Ratanasrithong M, **Chuenchitra T**, Jintakakorn S, Wasi C. Binding Antibody to Neutralizing Epitope gp41 in HIV-1 Subtype CRF01_AE Infection Related to Stage of Disease. *Southeast Asian J Trop Med Public Health* 2005;36(1): 3470-3476.
- 14) Ju Jiang, Vichai Sangkasuwas, Kriangkrai Lerdhussac, Suchitra Sukvit, **Thippawan Chuenchitra**, Patricik J. Rozmajzl, Chirapa Eamsila, James W. Jones, Allen L. Richards. Human Infection with *Rickettsia honoi*, Thailand. *Emerg Infect Dis.* 2005;11(9): 1473-1475.
- 15) Suchitra Sukwit, **Thippawan Chuenchitra**, Pornparn Rojanasang,

Supaporn Wiwatthanakul, Luckhana Saksopin, Suranrat Srisurapanon. Distribution of CD38 Moleculars on CD3+ and CD8+ T-Lymphocyte in Adulthood HIV-1 Uninfected Thais. J Med Assoc Thai 2005 ; 88(suppl1): s48-s55.

- 16) **Thippawan Chuenchitra**, Suchitra Sukwit, Jariyanart Gaywee , Kwanjai Viputtikul, Chirapa Eamsila, Sutchana Tabprasit, Mark de Souza, Narongrid Sirisopana, Sorachai Nitayaphan, Arthur E Brown, Cheodchai Chuenchitra. The Development of HIV Research laboratories in the Royal Thai Army Medical Department. J Med Assoc Thai 2005; 88(suppl3): s317-s324.
- 17) Yupa Phonphok, Pngsit Chanapai, Thiti Chinajitphun, and **Thippawan Chuenchitra**. Thai Avian Influenza (H5N1) Virus. Royal Thai Army Medical Journal (in Thai) October-December 2005, 58(4): 309-320.
- 18) Shiramizu B, Ratto-Kim S, Sithinamsuwan P, Nidhinanadana S, Thitivichaialert S, Watt G, Desouza M, **Chuenchitra T**, Sukwit S, Chitpatima S, Robertson K, Paul R, Shikuma C, Valcour V. HIV DNA and Dementia in Treatment-Naive HIV-1-Infected Individuals in Bangkok, Thailand. Int J Med Sci 2006; 4(1): 13-18.
- 19) **Thippawan Chuenchitra**, Suchitra Sukwit, Pittapun Chaitaveep, Mark S de Souza, Silvia R Kim, Robert M Paris, and Sorachai Nitayaphan Lymphoproliferative Responses to HIV-1 Gag p24 Antigen and Mitogens in HIV-1 Subtype CRF01_AE Infected Thai Patients and HIV-1 Seronegative Donors. Retrovirology 2006; 3(Suppl1): P13.
- 20) Valcour VG, Sithinamsuwan P, Nidhinandana S, Thitivichianlert S, Ratto-Kim S, Apatteerapong W, Shiramizu BT, Desouza MS, Chitpatima ST, Watt G, **Chuenchitra T**, Robertson KR, Paul RH, McArthur JC, Kim JH, Shikuma CM. Neuropsychological abnormalities in patients with dementia in CRF 01_AE HIV-1 infection. Neurology 2007; 68(7): 525-527.
- 21) Kulpraneet M, Sukwit S, Samransurp K, **Chuenchitra T**, Santiwatanakul S, Srisurapanon. Cytokine production in NK and NKT cells from Mycobacterium tuberculosis infected patients. Southeast Asian J Trop Med Public Health 2007; 38(2):370-375.
- 22) Sangkasuwan V, Chatyingmongkol T, Sukwit S, Eamsila C, **Chuenchitra T**, Rodkvamtook W, Jiang J, Richards AL, Lerdthusnee K, Jones JW. Description of the First Reported Human Case of Spotted Fever Group Rickettsiosis in Urban Bangkok. Am J Trop Med Hyg. 2007 Nov; 77(5): 891-892.
- 23) Wirachsilp P, Kantakamalakul W, Foongladda S, **Chuenchitra T**, Kohriangudom S, Athipanyasilp N, Tanprasertsuk S, Gasitrong M,

Sutthent R. Surveillance of subtype and genetic variation of the circulating strains of HIV-1 in Thailand. *Southeast Asian J Trop Med Public Health*. 2007 Sep; 38(5):814-827.

- 24) Louisirojchanakul S, Sutthent R, Wasi C, **Chuenchitra T**, Nitayaphan S, Brown AE, Polonis VR, Nakayama EE, Shioda T, Liu H, Takebe Y. Host Genetic Analysis of HIV Type 1 Subtype CRF01_AE (E)-Infected Thai Patients with Different Rates of Disease Progression. *AIDS Res Hum Retroviruses*. 2007 Dec; 23(12):1605-1608.
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