

บรรณานุกรม

1. National Cancer Institute. Annual report 1997. Department of Medical Service, Ministry of Public Health, Bangkok, Thailand.
2. Cates, W., and the American Social Health Association Panel 1999. Estimates of the incidence and prevalence of sexually transmitted diseases in the United States. *Sex. Transm. Dis.* 26: s2-s7.
3. Parkin, D.M., Pisani, P., Ferlay, J. 1999. Estimates of the worldwide incidence of 25 major cancers in 1990. *Int J Cancer* 80: 827-841.
4. Pisani, P., Parkin, D.M., Bray, F., Ferlay, J. 1999. Estimates of the worldwide mortality from 25 cancers in 1990. *Int J Cancer* 83: 18-29.
5. Parkin, D.M., Laara, E., Muir, C.S. 1998. Estimates of the worldwide frequency of sixteen major cancers in 1980. *Int J Cancer* 41: 184-197.
6. Burd, E.M. 2003. Human papillomavirus and cervical cancer. *Clin Microbiol Rev* 16: 1-17.
7. Kubbutat, M.H.G., Vousden, K.H. 1996. Role of E6 and E7 oncoproteins in HPV-induced anogenital malignancies. *Semin Virol* 17: 295-304.
8. zur Hausen, H. 1991. Human papillomaviruses in the pathogenesis of anogenital cancer. *Virology* 184: 9-13.
9. Kawana, K., Yasugi, T., Kanda, T., Kawana, Y., Hirai, Y., Yoshikawa, H., Taketani, Y. 2002. Neutralizing antibodies against oncogenic human papillomavirus is a possible determinant of the fate of low-grade cervical intraepithelial neoplasia. *Biochem Biophys Res Commun* 296:102-105.
10. Nagakiwa, M., et al. 1997. Cytotoxic T lymphocyte responses to E6 and E7 proteins of human papillomavirus type 16: Relationship to cervical intraepithelial neoplasia. *J Infect Dis* 175:927-934.
11. Zhou, J., Sun, X.Y., Stenzel, D.J., Frazer, I.H. 1999. Expression of vaccinia recombinant HPV 16 L1 and L2 ORF protein in epithelial cells is sufficient for assembly of HPV virion-like particles. *Virology* 185: 251-257.
12. Kirnbauer, R., Booy, F., Cheng, N., Lowy, D.R., Schiller, F.T. 1992. Papillomavirus L1 Major capsid protein self-assembles into virus-like particles that are highly immunogenic. *Proc Natl Acad Sci USA* 89: 12180-12184.

13. Stanley, M. 2005. Immune responses to human papillomavirus. *Vaccine; article in press* :available online at www.sciencedirect.com.
14. Scott, M., Nakagawa, M., Moscicki, A.B. 2001. Cell-mediated immune response to human papillomavirus infection. *Clin Diag Lab Immunol* 8: 209-220.
15. Torrens, I., Mendoza, O., Batte, A., Reyes, O., Fernandez, L.E., Mesa, C., Guillen, G. 2005. Immunotherapy with CTL peptide and VSSP eradicate established human papillomavirus (HPV) type 16 E7- expressing tumors. *Vaccine; article in press*: available online at www.sciencedirect.com.
16. Wu, T., Hsieh, S.T., Purow, B.W., Kurman, R..J. 1997. Demonstration of human papillomavirus (HPV) genomic amplification and viral-like particles from CaSki cell line in SCID mice. *J Virol Methods* 65: 287-298.
17. Duan, J., et al. 2004. A novel model of HPV infection in meshed human foreskin grafts. *Antiviral Res* 64: 179-188.
18. Husnjak, K., et al. 2000. Comparison of five different polymerase chain reaction methods for detection of human papillomavirus in cervical cell specimens. *J Virol Methods* 88(2): 125-134.
19. Bouet-Toussaint, F., et al. 2008. Vgamma9Vdelta2 T cell-mediated recognition of human solid tumors. Potential for immunotherapy of hepatocellular and colorectal carcinomas. *Cancer Immunol Immunother* 57(4): 531-539.
20. Kunzmann, V., et al. 2000. Stimulation of gammadelta T cells by aminobisphosphonates and induction of antiplasma cell activity in multiple myeloma. *Blood* 96(2): 384-392.
21. Ericsson, P.O., et al. 1991. In vivo induction of gamma/delta T cells with highly potent and selective anti-tumor cytotoxicity. *Eur J Immunol* 21(11): 2797-2802.
22. Viey, E., et al. 2005. Phosphostim-activated gamma delta T cells kill autologous metastatic renal cell carcinoma. *J Immunol* 174(3): 1338-1347.
23. Gober, H.J., et al. 2003. Human T cell receptor gammadelta cells recognize endogenous mevalonate metabolites in tumor cells. *J Exp Med* 197(2): 163-168.
24. Wilhelm, M., et al. 2003. Gammadelta T cells for immune therapy of patients with lymphoid malignancies. *Blood* 102(1): 200-206.

25. Mattarollo, S.R., et al. 2007. Chemotherapy and zoledronate sensitize solid tumour cells to Vgamma9Vdelta2 T cell cytotoxicity. *Cancer Immunol Immunother* 56(8): 1285-1297.
26. Sato, K., et al. 2005. Cytotoxic effects of gammadelta T cells expanded ex vivo by a third generation bisphosphonate for cancer immunotherapy. *Int J Cancer* 116(1): 94-99.
27. Corvaisier, M., et al. 2005. V gamma 9V delta 2 T cell response to colon carcinoma cells. *J Immunol* 175(8): p. 5481-5488.
28. Braza, M.S., et al. 2011. {gamma}{delta} T-cell killing of primary follicular lymphoma cells is dramatically potentiated by GA101, a type II glycoengineered anti-CD20 monoclonal antibody. *Haematologica* 96(3): p. 400-407.
29. Shires, J., E. Theodoridis, A.C. Hayday. 2001. Biological insights into TCRgammadelta+ and TCRalpha beta+ intraepithelial lymphocytes provided by serial analysis of gene expression (SAGE). *Immunity* 15(3): p. 419-434.
30. Sehr, P., Muller, M., Hopfl, R., Widschwendter, A., Pawlita, M. 2002. HPV antibody detection by ELISA with capsid protein L1 fused to glutathione S-transferase. *J Virol Methods* 106(1) : p. 61-70.
31. Chen, X.S., Casini, G., Harrison, S.C., Garcea, R.L. 2001. Papillomavirus capsid protein expression in Escherichia coli: purification and assembly of HPV11 and HPV16 L1. *J Mol Biol* 16 (307): p. 173-182.
32. Kirnbauer, R., et al. 1993. Efficient self-assembly of human papillomavirus type 16 L1 and L1-L2 into virus-like particles. *J Virol* 67(12): p. 6929-6936.
33. Biemelt, S., Sonnewald, U., Galmbacher, P., Willmitzer, L., Muller, M. 2003. Production of human papillomavirus type 16 virus-like particles in transgenic plants. *J Virol* 77(17): p. 9211-9220.
34. Woodman, C.B., Collins, S.I., Young, L.S. 2007. The natural history of cervical HPV infection: unresolved issues. *Nat Rev Cancer* 7(1): p. 11-22.

ภาคผนวก

ประวัตินักวิจัยและคณะ

1. หัวหน้าโครงการวิจัย (ไทย) นางสาว ภาวพันธ์ ภัทรโกศล

(อังกฤษ) Miss Parvapan Bhattarakosol

ตำแหน่ง รองศาสตราจารย์ 9

สถานที่ทำงาน ภาควิชาจุลชีววิทยา คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

ที่อยู่ทำงาน ถนนพระรามสี่ เขตปทุมวัน กทม. 10330

โทรศัพท์ 0-2252-8181 ต่อ 3628 โทรสาร 0-2252-5952

e-mail parvapan@chula.ac.th

ประวัติการศึกษา

คุณวุฒิ	ปีพ.ศ. ที่จบ	ชื่อสถานศึกษา
ปริญญาตรีวิทยาศาสตร์บัณฑิต (เทคนิคการแพทย์) เกียรตินิยมอันดับ 2	2524	คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย
วิทยาศาสตรมหาบัณฑิต (จุลชีววิทยา)	2527	คณะวิทยาศาสตร์ มหาวิทยาลัยมหิดล
ปรัชญาคุษฎีบัณฑิต (จุลชีววิทยา)	2533	คณะวิทยาศาสตร์ มหาวิทยาลัยมหิดล
Certificate of "Basic Procedure in Medical Virology"	2537	School of Medicine Nagoya University, Japan
Research on Signal transduction by oncogene that encode tyrosine kinase	2538	School of Medicine Nagoya University, Japan
Research on Tyrosine kinase protein prepared from Baculovirus expression	2540	School of Medicine Nagoya University, Japan

ผลงานวิชาการ (ตั้งแต่ปี 2000 จนถึงปัจจุบัน)

1. Puncharoen C, Chansongsakul T, **Bhattarakosol P.** Causes of fever in children with first febrile seizures: How common are human herpesvirus-6 and dengue virus infections?. *Southeast Asian J Trop Med Public Health* 2000; 31; 521-3.

2. Limpaboon T, Pooart J, **Bhattarakosol P**, Niruthisard S, Chantratita W, Lulitanond V. p53 status and human papillomavirus infection in Thai women with cervical carcinoma. *Southeast Asian J Trop Med Public Health* 2000; 31; 66-71.
3. Pancharoen C, **Bhattarakosol P**, Thisyakorn U. Infectious mononucleosis and seroprevalence of Epstein-Barr virus infection in Children. *Thai J Pediatrics* 2000; 39; 115-9.
4. **Bhattarakosol P**, Punnarugsa V, Mungmee V. Evaluation of an in-house ELISA for detecting herpes simplex virus antigen in comparison to conventional cell culture, shell vial cell culture and a commercial ELISA kit. *Chula Med J* 2001; 45; 11-9.
5. Mungmee V, Thammaborvorn R, Semboonlor L, Punnarugsa V, **Bhattarakosol P**. Situation of viral infectious diseases in King Chulalongkorn Memorial Hospital during 1993-1997. *Chula Med J* 2001; 45; 3-9.
6. **Bhattarakosol P**, Puncharoen C, Mekmullica J, Bhattarakosol P. Seroprevalence of anti-human herpesvirus-6 IgG antibody in children of Bangkok, Thailand. *Southeast Asian J Trop Med Public Health* 2001; 32(1); 143-7.
7. Puncharoen C, **Bhattarakosol P**, Thisyakorn U. Seroprevalence of Epstein-Barr virus infection in Thai children. *J Med Assoc Thai* 2001; 84(6); 850-4.
8. Kowitdamrong E, Thammaborvorn R, Semboonlor L, Mungmee V, **Bhattarakosol P**. Detection of Dengue HI and IgM antibody : Is it diagnostically useful ? When and how ? *J Med Assoc Thai* 2001; 84 (Suppl 1); s148-53.
9. Vilaichone R, Mahachai V, Eiam-Ong S, Kullavanijaya P, Wisedopas N, **Bhattarakosol P**. Necrotizing ileitis caused by cytomegalovirus in patient with systemic lupus erythematosus: case report. *J Med Assoc Thai* 2001; 84 (Suppl 1); s469-73.
10. Pancharoen C, Mekmullica J, Chinratanapisit S, **Bhattarakosol P**, Thisyakorn U. Seroprevalence of Epstein-Barr virus antibody among children in various age groups in Bangkok, Thailand. *Asian Pacific Journal of Allergy and Immunology* 2001; 19; 135-7.
11. **Bhattarakosol P**, Chirathaworn C, Chimma P. Replication of herpes simplex virus in T lymphocytes. *J Med Assoc Thai* 2002; 85(Suppl 1); s399-406.

12. **Bhattarakosol P**, Lertworapreecha M, Kitkumthorn N, Triratana chai S, Niruthisard S. Survey of human papillomavirus infection in cervical intraepithelial neoplasia in Thai women. *J Med Assoc Thai* 2002; 85(Suppl 1); s360-5.
13. **Bhattarakosol P**, Wiwanitkit V, Boonchalermvichian C, Nuchprayoon I. Human herpes virus 6 antibodies in beta-thalassemia/hemoglobin E pediatric patients. *Southeast Asian J Trop Med Public Health*. 2002;33 Suppl 3:149-51.
14. Noppornpanth S, Haagmans BL, Bhattarakosol P, Ratanakorn P, Niesters HGM, Osterhaus ADME, Poovorawan Y. Molecular epidemiology of gibbon hepatitis B virus transmission. *J Gen Virol* 2003; 84; 147-55.
15. Tulvatana W, **Bhattarakosol P**, Sansopha L, Sipivarak W, Kowitdamrong E, Paisuntornsug T, Karnsawai S. Risk factors for conjunctival squamous cell neoplasia: a matched case-control study. *Br J Ophthalmol*. 2003 Apr;87(4):396-8.
16. Khongphatthanayothin A, Suesawalak M, Muangmingsook S, **Bhattarakosol P**, Pancharoen C. Hemodynamic profiles of patients with dengue hemorrhagic fever during toxic stage: an echocardiographic study. *Intensive Care Med*. 2003 Apr;29(4):570-4.
17. Sakulwira K, Vanapongtipagorn P, Theamboonlers A, **Bhattarakosol P**, Wananukul S, Poovorawan Y. Detection and differentiation of human herpesviruses 1-5 by consensus primer PCR and RFLP. *Asian Pac J Allergy Immunol*. 2003; 21:55-61.
18. Likitnukul S, **Bhattarakosol P**, Poovorawan Y. Seroprevalence of cytomegalovirus infection in children born to HIV-1 infected women. *Asian Pac J Allergy Immunol*. 2003 Jun;21(2):127-30.
19. Sridulyakul P, Chakraphan D, **Bhattarakosol P**, Patumraj S. Endothelial nitric oxide synthase expression in systemic and pulmonary circulation of streptozotocin induced diabetic rats: comparison using image analysis. *Clin Hemorheol Microcirc*. 2003;29(3-4):423-8.
20. **Bhattarakosol P**, Pancharoen C, Kowitdamrong E, Thammaborvorn R, Mungmee V. Prevalence of parvovirus B19 infection in Thai young adults. *Southeast Asian J Trop Med Public Health*. 2003; 34:585-8.
21. **Bhattarakosol P**, Pancharoen C, Mungmee V, Thammaborvorn R, Semboonlor L. Seroprevalence of anti-RSV IgG in Thai children aged 6 months to 5 years. *Asian Pacific Journal of Allergy and Immunology* 2003; 21:269-71.

22. Pancharoen C, Likitnukul S, Chongsrisawat V, Vivatvekin B, **Bhattarakosol P**, Suwangool P, Thisayakorn U. Rectal prolapse associated with cytomegalovirus pseudomembranous colitis in a child infected by human immunodeficiency virus. *Southeast Asian J Trop Med Public Health* 2003; 34(3): 583-4.
23. Chamma P, Chirathaworn C, **Bhattarakosol P**. Increased susceptibility of HSV-1 growth in PHA activated T-lymphocyte caused by upregulating of HveA mRNA expression. *Intervirolgy* 2004; 47: 14-8.
24. Sakulwira K, Theamboonlers A, Oraveerakul K, Chaiyabutr N, **Bhattarakosol P**, Poovorawan Y. Orangutan herpesvirus. *J Med Primatol* 2004;33:1-5.
25. Tuksinvaracharn R, Tanayapong P, Pongrattanaman S, Hansasuta P, **Bhattarakosol P**, Siriyasatien P. Prevalence of dengue virus in aedes mosquitoes during dry season by semi-nested reverse transcriptase-polymerase chain reaction (semi-nested RT-PCR). *J Med Assoc Thai* 2004; 87 (Suppl 2):S129-133.
26. Hansasuta P, Incomserb P, Buranapraditkul S, **Bhattarakosol P**. Establishment of cytotoxic T lymphocytes specific for autologous Epstein-Barr virus in HIV-infected patients: The feasibility study of EBV-specific immunotherapy for patients with EBV-associated lymphoma. *J Med Assoc Thai* 2004; 87 (Suppl 2):S146-151.
27. Pongpanich A, **Bhattarakosol P**, Chirathaworn C. Induction of apoptosis by herpes simplex virus in Jurkat cells is partly through caspase-3, -8, and -9 activation. *J Med Assoc Thai* 2004; 87 (Suppl 2):S140-145.
28. Visaprom S, Chindamporn A, Chantratita A, **Bhattarakosol P**. Intratypic variations among Thai herpes simplex virus (HSV) isolates determined by restriction fragment length polymorphism (RFLP). Submitted to *Southeast Asian J Trop Med Public Health*. 2005; 36(4): 910-6.
29. Yoysungnoen P, Wirachwong P, **Bhattarakosol P**, Niimi H, Patumraj S. Antiangiogenic activity of curcumin in hepatocellular carcinoma cells implanted nude mice. *Clinical Hemorheology Micro*, 2005; 33(2):127-35.
30. **Bhattarakosol P**, Visaprom S, Sangdara A, Mungmee V. Increase of Genital HSV-1 And Mixed HSV-1 and HSV-2 Infection in Bangkok, Thailand. *J Med Assoc Thai*, 2005;88 (Suppl4):S300-4.

31. Incomserb P, **Bhattarakosol P**, Kulwichit W, Chatratita W, Hansasuta P. Establishment of real-time polymerase chain reaction-based assay for quantitation of Epstein-Barr virus DNA in healthy donors and in patients with EBV associated lymphoma. *J Med Assoc Thai*, 2005;88(Suppl4): S280-6.
32. Kovitdamrong E, Pancharoen C, Thammaborvorn R, **Bhattarakosol P**. The prevalence of varicella-zoster virus infection in normal healthy individuals aged above 6 months. *J Med Assoc Thai*, 2005; 88(Suppl4)S7-11.
33. Boonyod D, Poovorawan Y, **Bhattarakosol P**, Chirathaworn C. Lip32, an outer membrane protein of *Leptospira*, as an antigen in dipstick assay for diagnosis of leptospirosis. *Asian Pacific Journal of Allergy and Immunology* 2005; 23:133-141.
34. Yoysungnoen P, Wirachwong P, **Bhattarakosol P**, Niimi H, Patumraj S. Effects of curcumin on tumor angiogenesis and biomarkers, COX-2 and VEGF, in hepatocellular carcinoma cell-implanted nude mice. *Clin Hemorheol Microcirc.* 2006;34(1-2):109-15.
35. Chutinimitkul S, **Bhattarakosol P**, Srisuratanon S, Eiamudomkan A, Kongsomboon K, Damrongwatanapokin S, Chaisingh A, Suwannakarn K, Chieochansin T, Theamboonlers A, Poovorawan Y. H5N1 influenza A virus and infected human plasma. *Emerg Infect Dis.* 2006 Jun;12(6):1041-3.
36. Chantaraarphonkun S, **Bhattarakosol P**. Intra and Intergenotypic Variations among Human Cytomegalovirus (HCMV) gB Genotypes in Clinical Samples. *Intervirology.* 2007;50:78-84.
37. Thammabovorn T, Mungmee V, Thammachotruja L, Kowitdamrong E, **Bhattarakosol P**. Prevalence of viral infections in clinical specimens at Virology Laboratory Unit during the year 1998 to 2004. *Chula Med J* 2007; 51: 229-39.
38. **Bhattarakosol P**, chantaraarphonkun S. Prevalence of human cytomegalovirus (HCMV) gB genotypes in Thai patients. *Southeast Asian J Trop Med Public Health* 2007; 38: 835-40.
39. Duansak N, Yoysungnoen P, Somchaichana J, **Bhattarakosol P**, Wirachwong P, Patumraj S. Correlation between hypoxia-inducible factor and vascular endothelial growth factor expression under tumor neovascularization in hepatocellular carcinoma cell-implanted nude mice. *Asian Biomedicine* 2007, 1 (4);399-406.
40. Sangdara A, **Bhattarakosol P**. Acyclovir susceptibility of herpes simplex virus isolates at King Chulalongkorn Hospital, Bangkok. *J Med Assoc Thai* 2008 91(6):908-12.

41. Lertworapreecha M, Thammachotruja L, **Bhattarakosol, P.** Prevalence and distribution of HPV type in Thai women. *Chula Med J* 2008; 52:161-7.
42. Theamboonlers A, **Bhattarakosol P**, Chongsrisawat V, Sungkapalee T, Wutthirattanakowit N, Poovorawan Y. Molecular characterization of group A human rotaviruses in Bangkok and Buriram, Thailand during 2004-2006 reveals the predominance of G1P[8], G9P[8] and a rare G3P[19] strain. *Virus Genes* 2008;36:289-98.
43. Lertworapreecha M, Patumraj S, Niruthisard S, Hansasuta P, **Bhattarakosol P.** Mouse acquired HPV tumor using dorsal skin-fold window chamber. *Indian J Exp Biol* 2009;47:327-32.
44. Muangsub T, Khemachaithanyarot N, Mungmee V, Ammaranond P, **Bhattarakosol P.** Stability of Herpes Simplex Virus Type 1 (HSV-1) during Specimen Collection and Transport. *J Med Tech Assoc Thailand* 2009; 32(2):2819-26. (Thai)
45. Boonyasuppayakorn S, Kowitdamrong E, **Bhattarakosol P.** Molecular and demographic analysis of respiratory syncytial virus infection in patients admitted to King Chulalongkorn Memorial Hospital, Thailand, 2007. *Influenza and Other Respiratory Viruses* 2010; 4(5): 313–323.
46. Kuncharin Y, Sangphech N, Kueanjinda P, **Bhattarakosol P**, Palaga T. MAML1 regulates cell viability via the NF- κ B pathway in cervical cancer cell lines. *Exp Cell Res.* 2011 Aug 1;317(13):1830-40.
47. **Bhattarakosol P**, Kovitdamrong E, Prisuwan P. HIV infection may not increase the intrauterine transmission rate of CMV and HSV in patients with co-infection. *Journal of Pediatric Infectious Diseases* 2011; 6:103-110.

2. ผู้ร่วมโครงการ (ไทย) นางสุทธิลักษณ์ ปทุมราช

(อังกฤษ) Mrs. Suthiluk Patumraj

ตำแหน่ง รองศาสตราจารย์ 9

สถานที่ทำงาน ภาควิชาสรีรวิทยา คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

ที่อยู่ทำงาน ถนนพระรามสี่ เขตปทุมวัน กทม. 10330

โทรศัพท์ 0-22564267 โทรสาร 0-22527854

e-mail medspr@hotmail.com, suthilukp@yahoo.com

ประวัติการศึกษา

คุณวุฒิ	ปีพ.ศ. ที่จบ	ชื่อสถานศึกษา
ปริญญาตรี สาขาชีวเคมี	2524	คณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย
ปริญญาโท สาขา Biomedical Engineering	2528	New Jersey Institute of Technology, USA
ปริญญาเอก สาขาสรีรวิทยา	2533	University of Medicine and Dentistry of New Jersey, USA.

ผลงานวิชาการ (ตั้งแต่ปี 2000 จนถึงปัจจุบัน)

- Somboonwong J, Thanamitramanee S, Jariyapongskul A, **Patumraj S**. Therapeutic effects of Aloe vera on Cutaneous Microcirculation and Wound Healing in Second Degree Burn Model in Rats. *J Med Assoc Thai* 2000;83:417-25.
- Patumraj S**, Tewit S, Amatyakul S, Maneesri S, Jariyapongskul A, Kasantikul V, Shepro D. Comparative Effects of Garlic and Aspirin on Diabetic Cardiovascular Complication. *Drug Delivery* 2000; 7:1-6.
- Futrakul N, Panichakul T, Chaisuriya P, Sirisinha S, Futrakul P, **Patumraj S**. Endothelial Cell Cytotoxicity Induced by Nephrotic Serum. The Second Congress of the Federation of Immunological Societies of Asia-Oceania _ Editors , Sirisinha S. , Chaiyaroj S. , Tapchaisri, P. Jan. 2000. Monduzzi Edi. S.p.A.
- Futrakul N, Panichakul T, Chaisuriya P, Sirisinha S, **Patumraj S**, Futrakul P. Endothelial cell cytotoxicity and renal hypoperfusion in idiopathic nephrotic syndrome. *Nephron* 2000;86: 241-2.
- Futrakul N, Bulthep P, **Patumraj S**, Futrakul P. Glomerular endothelial dysfunction and altered cytokines in severe nephrosis, *Nephron*. 2000;86:199.
- Wattanachon U., Covavisaruch N., **Patumraj S**. A measuring tool for vascular wall thickness : an image analysis approach. *Proc. The 4th National Computer Science and Engineering*. Nov. 16-17,2000.
- Amatyakul S., **Patumraj S.**, Niimi H. Effects of adrenomedullin on the cardiac performance and coronary flow in an isolated perfused rat heart model. *Clinical Hemorheology and Microcirculation* 23 (2000):269-75.
- Srikiatkachorn A, Anuntasethakul T., Maneesri S., Phansuwan-Pujito P., **Patumraj S**, and Kasantikul V. Hyposerotonin-induced nitric oxide supersensitivity in the cerebral microcirculation. *Headache* 2000 Apr; 40(4): 267-75.
- Udayachalerm W., Vechakarn O., **Patumraj S**. Effects of ACE-I on Diabetic Cardiovascular complications : Anti-Hypertensive and Non-Anthihypertensive Doses. *J Med Assoc Thai* 2001;84 (Suppl 1): S306-S13.

10. Chakraphan D.,Thipakorn B., **Patumraj S.** Changes of mesenteric microcirculation in chronic diabetic rats: A pilot study using invital fluorescense microscopy. *Proc. 7th World Congress for Microcirculation. Aug. 19-22, 2001.*
11. Srikiatkachorn A, Anuntasethakul T., Phansuwan-Pujito P., **Patumraj S.**, Kasantikul V. Effect of serotonin depletion on nitric oxide induced cereberovascular nociceptive response. *Neuroreport 2001 Apr; 12(50): 967-71.*
12. Jariyapongskul A, **Patumraj S**, Yamaguchi S, Niimi H. The effect of long-term supplementation of vitamin C on leukocyte adhesion to the cerebral endothelium in STZ- induced diabetic rats. *Clinical Hemorheology and Microcirculation 2002; 27(1): 67-76.*
13. Futrakul N, Tosukhowong P, Valyapongichit Y, Tipprukmas N, Futrakul P, **Patumraj S.** Oxidative stress and hemodynamic maladjustment in chronic renal disease : A therapeutic implication. *Ren Fail 2002 Jul ; 24(4) : 433-45.*
14. Futrakul N, Boongen M, Tosukhowong P, **Patumraj S**, Futrakul P. Treatment wittth vasodilators and crude extract of Ganoderma lucidun suppresses proteinuria in nephrosis with focal segmental glomerulosclerosis. *Nephron. 2002 ; 92(3) : 719-20.*
15. Futrakul N, Tohsukhowong P, **Patumraj S**, Siriviriyakul P, Tipprukmas N, Futrakul P. Treatments of hemodynamic maladjustment and oxidative stress prevent renal disease progression in chronically severe glomerulonephritides. *Ren Fail. 2003 Sep;25(5):839-44.*
16. Khemapech S., Monsiri K, **Patumraj S**, Siriviriyakul P. Genistein replacement therapy for vasodilation disorder in bilateral ovariectomized rats. *Clinical Hemorheology and Microcirculation, IOS Press. 2003; 29: 271-78.*
17. Futrakul N, Boongen M, **Patumraj S**, Siriviriyakul P, Tosukhowong P, Futrakul P. Treatment of glomerular endothelial dysfunction steroid-resistant nephrosis with *Ganoderma lucidum*, vitamins C, E, and vasodilators. *Clinical Hemorheology and Microcirculation, IOS Press. 2003; 29: 205-10.*
18. Sridulyakul P, Chakraphan D, Bhattarakosol P, **Patumraj S.** Endothelial nitric oxide synthase expression in systemic and pulmonary circulation of streptozotocin induced diabetic rats : comparison using image analysis. *Clinical Hemorheology and Microcirculation, IOS Press. 2003; 29: 423-28.*
19. Futrakul N, Siriviriyakul P, Panichakul T, Butthep P, **Patumraj S**, Tosukhowong P, Futrakul P. Glomerular endothelial cytotoxicity and dysfunction in nephrosis with focal segmental glomerulosclerosis. *Clinical Hemorheology and Microcirculation, IOS Press. 2003; 29: 469-77.*
20. Futrakul P, Siriviriyakul P, Kulaputana O, **Patumraj S**, Bunnag S.C., Futrakul N. A hemodynamically mediated mechanism of renal disease progression in severe glomerulonephritides or nephrosis. *Clinical Hemorheology and Microcirculation, IOS Press. 2003; 29: 183-8.*

21. Duansak D, Somboonwong J., **Patumraj S.** Effects of *Aloe vera* on leukocyte adhesion and TNF-alpha and IL-6 levels in burn wounded rats. *Clinical Hemorheology and Microcirculation, IOS Press. 2003; 29: 239-46.*
22. Amatyakul S, Chakraphan D, Chotpaibulpan S, **Patumraj S.** The effect of long- term supplementation of vitamin C on pulpal blood flow in streptozotocin-induced diabetic rats. *Clinical Hemorheology and Microcirculation , IOS Press. 2003; 29: 313-20.*
23. Jariyapongskul A, **Patumraj S,** Niimi H. Cerebral endothelial dysfunction in diabetes: intravital microscopical analysis using streptozotocin-induced diabetic rats. *Clinical Hemorheology and Microcirculation, IOS Press. 2003; 29: 331-5.*
24. Molsiri K, **Patumraj S,** Siriviriyakul P. Preventive mechanism of genistein on coronary endothelial dysfunction in ovariectomized rats : An isolated arrested heart model. *Clinical Hemorheology and Microcirculation vol.31 (2), 2004*
25. Chakraphan D, Sridulyakul P, Thipakorn B, Bunnag S.C, Huxley VA. **Patumraj S :** Attenuation of Endothelial Dysfunction by Exercise Training in STZ-Induced Diabetic Rats. *Clinical Hemorheology and Microcirculation vol.32, 2005 :217-26.*
26. **Patumraj S,** Yoysungnoen P, Kachonrattanadet P., Wirachwong P. Tumor Neocapillary Density in hepatocellular carcinoma cells Implanted Nude Mice Model. *Clinical Hemorheology and Microcirculation vol.33, 2005 :137-44.*
27. Yoysungnoen P, Wirachwong P, Bhattarakosol P, **Patumraj S.** Antiangiogenic activity of curcumin in Hepatocellular carcinoma cells implanted nude mice. *Clinical Hemorheology and Microcirculation vol.33, 2005 :127-36.*
28. Eamlamnam K, **Patumraj S,** Visedopas N, Thong-Ngam D. Effects of *Aloe vera* and sucralfate on gastric microcirculatory changes, cytokine levels and gastric ulcer healing in rats. *World J Gastroenterology ISSN1007-9327 vol 12, 2006 : 2035-40.*
29. Prabjone R, Thong-Ngam D, Wisedopas N, Chatsuwan T, **Patumraj S.** Anti-inflammatory effects of *Aloe vera* on leukocyte-endothelium interaction in the gastric microcirculation of *Helicobacter pylori*-infected rats. *Clinical Hemorheology and Microcirculation vol.33, 2006 :9:56.*
30. Yoysungnoen P, Wirachwong P, Bhattarakosol P, Niimi H, **Patumraj S.** Effects of curcumin on tumor antiangiogenesis and biomarkers : COX-2 and VEGF *Clinical Hemorheology and Microcirculation vol.34, number 1,2, 2006 :109-16.*
31. Niimi H, **Patumraj S,** J.-Y.Han. Asian traditional medicine (ATM) : Recent progress based on scientific evidences. *Clinical Hemorheology and Microcirculation vol.34, number 1,2, 2006 : 85 - 8.*
32. Siriviriyakul P, Khemapech S., Monsiri K, **Patumraj S.** The vascular effect of genistein : What is its mechanism, nitric oxide or PGL₂? *Clinical Hemorheology and Microcirculation vol.34, number 1,2, 2006 : 97 - 101.*

33. Jariyapongskul A , **Patumraj S**, Niimi H. Effects of Yohom on the regional cerebral blood flow in rat using fluorescence videomicroscopy. *Clinical Hemorheology and Microcirculation* vol.34, number 1,2, 2006 : 139 – 44.
34. Futrakul N, Butthep P, **Patumraj S** , Siriviriyakul P, Futrakul P. Microvascular disease and endothelial dysfunction in chronic kidney disease : Therapeutic implication. *Clinical Hemorheology and Microcirculation* vol.34, number 1,2, 2006 : 265 – 71.
35. Jariyapongskul A , Rungjaroen T, Kasetsuwan N, **Patumraj S**, Niimi H. Chronic changes of the iris microvasculature of streptozotocin – induced diabetic rats using fluorescence videomicroscopy. *Clinical Hemorheology and Microcirculation* vol.34, number 1,2, 2006 : 283 - 93.
36. Amatyakul S, Chakraphan D, Chotpaibulpan S, **Patumraj S**. Role of exercise training on pupal blood flow in diabetic rats. *Clinical Hemorheology and Microcirculation* vol.34, number 1,2, 2006 : 295 - 301.
37. Chanawirat A, Khemapech S, **Patumraj S**, Siriviriyakul P. Genistin replacement therapy on endothelial dysfunction and bone loss in bilateral ovariectomized rats. *Clinical Hemorheology and Microcirculation* vol.34, number 1,2, 2006 : 309 - 14.
38. Sridulyakul P, Chakraphan D, **Patumraj S**. Vitamin C supplementation could reverse diabetes-induced endothelial cell dysfunction in mesenteric microcirculation in STZ-rats. *Clinical Hemorheology and Microcirculation* vol.34, number 1,2, 2006 : 315 - 21.
39. Jariyapongskul A , Rungjaroen T, Kasetsuwan N , **Patumraj S**, Seki J , Niimi H. Long-term effects of oral vitamin C supplementation on the endothelial dysfunction in the iris microvessels of diabetic rats. *Microvasc Res.* 2007 Mar 23;174:677-47.
40. **Patumraj S**, Wongeakin N, Jariyapongskul A, Futrakul N, Bunnag S Combined effects of curcumin and vitamin C to protect endothelial dysfunction in the iris tissue of STZ-induced diabetic rats. *Clin Hemorheol Microcirc.* 2006;35:481-89.
41. Thaveeratitham P., Plengpanich W., Naen-Udom W., **Patumraj S.**, Khovidhunkit W. Effects of human apolipoprotein A-I on endotoxin-induced leukocyte adhesion on endothelial cells *in vivo* and on the growth of *Escherichia coli in vitro* *J. Endotoxin. Research. Volume 13, Number 1 / 2007: 54-58.*
42. Thaveeratitham P., W. Khovidhunkit, **S. Patumraj.** High-density lipoproteins (HDL) inhibit endotoxin-induced leukocyte adhesion on endothelial cells in rats: Effect of the acute-phase HDL *Clinical Hemorheology and Microcirculation, Volume 36, Number 1 / 2007: 1 – 12.*
43. Chakraphan D., Sridulyakul P., Thipakorn B., Bunnag S., Virginia H., **Patumraj S.** Leukocyte-endothelial cell interaction is attenuated by low-intensity exercise training and vitamin C supplementation in diabetic rats. *Asian Biomed Journal.* 2007;1: 67-75.
44. **Patumraj S**, Yoosungneon P. *Review Article.* Curcumin as a therapeutic agent against cancer. *Asian Biomed Journal Vol. 1 No. 3 October 2007;239-52.*

45. Kasiyaphat A, Siriviriyakul P, **Patumraj S**. *Technical report*. A novel femur window chamber for *in vivo* studies of bone microcirculation. *Asian Biomed Journal Vol. 1 No. 3 October 2007*;301-305.
46. Duansak N, Yoysungnoen P, Somchaichana J, Bhattarakosol P, Wirachwong P, **Patumraj S**. Correlation between hypoxia-inducible factor and vascular endothelial growth factor expression under tumor neovascularization in hepatocellular carcinoma cell-implanted nude mice. *Asian Biomedicine*. 2007. Vol. 1 No. 4 December;399-406.
47. Kasiyaphat A., Siriviriyakul P, **Patumraj S**. Preventive effects of genistein on leukocyte adhesion in femur venules and on bone-loss induced in ovariectomized female rats. *Clinical Hemorheology and Microcirculation*.38;4. 2008:235-43.
48. Yoysungnoen P, Wirachwong P, Changtam C, Suksamrarn A, **Patumraj S**. Suppression of tumor neocapillarization induced by HepG2 cells in nude mice supplemented with curcumin or tetrahydrocurcumin: an *in vivo* comparative study. *Asian Biomedicine Vol. 2 No. 1 February 2008*;77-82.
49. Jariyapongskul A, **Patumraj S**, Suksamrarn, A. Long-term effect of tetrahydrocurcumin supplementation on cerebral blood flow and endothelial cells in streptozotocin- induced diabetic rats. *Asian Biomedicine*. 2008, vol. 2, no.2,151-5.
50. Sridulyakul P, Wongeak-in N, **Patumraj S**. Increased nitric oxide level in diabetic rats from vitamin C supplementation: an *in vivo* detection using diaminofluorescein. *Asian Biomedicine Vol. 2 No. 5 October 2008*;371-9.
51. Yoysungnoen P, Wirachwong P, Changtam C, Suksamrarn A, **Patumraj S**. Anti- cancer and anti- angiogenic effects of curcumin and tetrahydrocurcumin on implanted hepatocellular carcinoma in nude mice. *World J Gastroenterol*. 2008;14(13):2003-9.
52. Lertworapreecha M, **Patumraj S**, Niruthisard S, Hansasuta P, Bhattarakosol P. Mouse acquired HPV tumor using dorsal skin-fold window chamber. *Indian J Exp Biol*. 2009;47:327-32.
53. Wongeakin N, Sridulyakul P, Jariyapongskul A, Suksamrarn A, **Patumraj S**. Effects of curcumin and tetrahydrocurcumin on diabetes induced endothelial dysfunction. *African Journal of Biochemistry Research* 2009, Vol.3 (5):259-65.
54. Viboolvorakul S, Niimi H, Wongeak- in N, Eksakulkla S, **Patumraj S**. Increased Capillary Vascularity in the Femur of Aged Rats by Exercise Training. *Microvascular Research*., 2009 (78): 459–63.
55. Eksakulkla S, Suksom D, Siriviriyakul P, **Patumraj S**. Increased NO bioavailability in aging male rats by genistein and exercise training: using 4, 5-diaminofluorescein diacetate. *Reprod Biol Endocrinol*. 2009; 7: 93.
56. Rungseesantivanon S, Thenchaisri N, Ruangvejvorachai P, **Patumraj S**. Curcumin supplementation could improve diabetes-induced endothelial dysfunction associated with decreased vascular superoxide production

and PKC inhibition. *BMC Complementary and Alternative medicine* 2010; 10:57
<http://www.biomedcentral.com/1472-6882/10/57>.

57. Rungseesantivanon S, Thenchaisri N, Ruangvejvorachai P, **Patumraj S**. Curcumin improves prostanoid ratio in diabetic mesenteric arteries associated with cyclooxygenase-2, and NF-kB suppression. *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy* 2010; 3; 421 – 9.

3. ผู้ร่วมโครงการ (ไทย) นายสมชัย นิรุธิศาส์

(อังกฤษ) Mr. Somchai Niruthisard

ตำแหน่ง รองศาสตราจารย์ 9

สถานที่ทำงาน ภาควิชาสูติศาสตร์-นรีเวชวิทยา คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

ที่อยู่ทำงาน ถนนพระรามสี่ เขตปทุมวัน กทม. 10330

โทรศัพท์ 0-22564167

e-mail fmedsnr@md.chula.ac.th

ประวัติการศึกษา

มหาวิทยาลัย	ปริญญา	สาขา	ปีที่ได้รับ พ.ศ.
จุฬาลงกรณ์มหาวิทยาลัย	วท.บ.	วิทยาศาสตร์การแพทย์	2519
จุฬาลงกรณ์มหาวิทยาลัย	พบ.	แพทยศาสตร์	2521
แพทยสภา	วุฒิบัตร	สูติศาสตร์นรีเวชวิทยา	2525

ผลงานวิชาการ (ตั้งแต่ปี ค.ศ. 2000 จนถึงปัจจุบัน)

1. Lertworapreecha M, Patumraj S, **Niruthisard S**, Hansasuta P, Bhattarakosol P Mouse acquired HPV tumor using dorsal skin-fold window chamber. *Indian J Exp Biol.* 2009 May;47(5):327-32.
2. Tantbirojn P, Triratanachat S, Trivijitsilp P, **Niruthisard S**. Human telomerase reverse transcriptase (hTERT) expression in borderline ovarian tumors: an immunohistochemical study. *J Med Assoc Thai.* 2009 Mar;92(3):308-14.
3. Tantbirojn P, Triratanachat S, Trivijitsilp P, **Niruthisard S**. Comparison between adenocarcinoma in both endocervical and endometrial specimens from fractional curettage and

- pathologic findings in subsequent hysterectomy specimens. *J Med Assoc Thai.* 2008 Sep;91(9):1313-7
4. Tantbirojn P, Triratanachat S, Trivijitsilp P, **Niruthisard S.** Detection of PTEN immunoreactivity in endometrial hyperplasia and adenocarcinoma. *J Med Assoc Thai.* 2008 Aug;91(8):1161-5.
 5. Sirayapiwat P, Suwajanakorn S, Triratanachat S, **Niruthisard S.** The effects of GnRH antagonist on the endometrium of normally menstruating women. *J Assist Reprod Genet.* 2007 Dec;24(12):579-86.
 6. Manchana T, Sirisabya N, Triratanachat S, **Niruthisard S,** Tannirandom Y. Pyomyoma in a perimenopausal woman with intrauterine device. *Gynecol Obstet Invest.* 2007;63(3):170-2.
 7. Triratanachat S, **Niruthisard S,** Trivijitsilp P, Tresukosol D, Jarurak N. Angiogenesis in cervical intraepithelial neoplasia and early-staged uterine cervical squamous cell carcinoma: clinical significance. *Int J Gynecol Cancer.* 2006 Mar-Apr;16(2):575-80.
 8. Kitkumthorn N, Yanatatsanajit P, Kiatpongsan S, Phokaew C, Triratanachat S, Trivijitsilp P, Termrungruenglert W, Tresukosol D, **Niruthisard S,** Mutirangura A. Cyclin A1 promoter hypermethylation in human papillomavirus-associated cervical cancer. *BMC Cancer.* 2006 Mar 8;6:55.
 9. Kiatpongsan S, **Niruthisard S,** Mutirangura A, Trivijitsilp P, Vasuratna A, Chaithongwongwatthana S, Lertkhachonsuk R. Role of human papillomavirus DNA testing in management of women with atypical squamous cells of undetermined significance. *Int J Gynecol Cancer.* 2006 Jan-Feb;16(1):262-5.
 10. Bhattarakosol P, Lertworapreecha M, Kitkumthorn N, Triratanachai S, **Niruthisard S.** Survey of human papillomavirus infection in cervical intraepithelial neoplasia in Thai women. *J Med Assoc Thai.* 2002 Jun;85 Suppl 1:S360-5
 11. Pornthanakasem W, Shotelersuk K, Termrungruenglert W, Voravud N, **Niruthisard S,** Mutirangura A. Human papillomavirus DNA in plasma of patients with cervical cancer. *BMC Cancer.* 2001;1:2.

12. Limpai boon T, Pooart J, Bhattarakosol P, **Niruthisard S**, Chantratita W, Lulitanond V. p53 status and human papillomavirus infection in Thai women with cervical carcinoma. *Southeast Asian J Trop Med Public Health*. 2000 Mar;31(1):66-71.
13. Lertworapreecha M, Bhattarakosol P, **Niruthisard S**. Detection and typing of human papillomavirus in cervical intraepithelial neoplasia grade III in Thai women. *Southeast Asian J Trop Med Public Health*. 1998 Sep;29(3):507-11.
14. Reinprayoon D, Taneepanichskul S, **Niruthisard S**, Suwajanakon S. Uterine histopathologic changes after Cu-Fix intrauterine device insertion. *Contraception*. 1999 Jan;59(1):63-5
15. Charuruks N, Voravud N, Termrungruanglert W, Lertsanguansinchai P, Tresukosol D, **Niruthisard S**, Sirisabya N. 13-cis-retinoic acid and interferon-alpha 2a therapy in locally advanced squamous cell carcinoma of the cervix: p53 alteration, proliferating cell nuclear antigen expression and angiogenesis response. *J Obstet Gynaecol Res*. 1998 Oct;24(5):335-41.
16. Mutirangura A, Sriuranpong V, Termrungruanglert W, Tresukosol D, Lertsanguansinchai P, Voravud N, **Niruthisard S**. Telomerase activity and human papillomavirus in malignant, premalignant and benign cervical lesions. *Br J Cancer*. 1998 Oct;78(7):933-9
17. Van Damme L, **Niruthisard S**, Atisook R, Boer K, Dally L, Laga M, Lange JM, Karam M, Perriens JH. Safety evaluation of nonoxynol-9 gel in women at low risk of HIV infection. *AIDS*. 1998 Mar 5;12(4):433-7.
18. Bhattarakosol P, Poonnaniti A, **Niruthisard S**. Detection and typing of human papillomavirus in cervical cancer in the Thai. *J Med Assoc Thai*. 1996 Dec;79 Suppl 1:S56-64.
19. Hemachudha T, Niruthisard S, Sirivichayakul S, Chomchey P, Wilde H. HTLV-1 has reached Thailand via a heterosexual route. *Trans R Soc Trop Med Hyg*. 1992 Jul-Aug;86(4):434.
20. **Niruthisard S**, Roddy RE, Chutivongse S. Use of nonoxynol-9 and reduction in rate of gonococcal and chlamydial cervical infections. *Lancet*. 1992 Jun 6;339(8806):1371-5.
21. **Niruthisard S**, Trisukosol D. Male sexual behavior as risk factor in cervical cancer. *J Med Assoc Thai*. 1991 Nov;74(11):507-12.
22. **Niruthisard S**, Roddy RE, Chutivongse S. The effects of frequent nonoxynol-9 use on the vaginal and cervical mucosa. *Sex Transm Dis*. 1991 Jul-Sep;18(3):176-9.

4. ผู้ร่วมโครงการ (ไทย) นายปกรัฐ หังสสุต

(อังกฤษ) Mr. Pokrath Hansasuta

ตำแหน่ง ผู้ช่วยศาสตราจารย์ 7

สถานที่ทำงาน ภาควิชาจุลชีววิทยา คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

ที่อยู่ทำงาน ถนนพระรามสี่ เขตปทุมวัน กทม. 10330

โทรศัพท์ 0-22528181 ต่อ 3628 โทรสาร 0-22525952

e-mail fmedphs@md.chula.ac.th, pokrath.h@chula.ac.th

ประวัติการศึกษา

มหาวิทยาลัย	ปริญญา	สาขา	ปีพ.ศ. ที่จบ
จุฬาลงกรณ์มหาวิทยาลัย	วิทยาศาสตรบัณฑิต	สัตววิทยา	๒๕๓๑
จุฬาลงกรณ์มหาวิทยาลัย	แพทยศาสตรบัณฑิต	แพทยศาสตร์	๒๕๓๖
University of Oxford	Doctor of Philosophy*	Clinical Medicine	๒๕๔๔

*Under supervision of Professor S.L. Rowland-Jones

ผลงานวิชาการ

1. **Hansasuta, P**, Suebsing R, , Trivijitsilp, P and Bhattarakosol P Variation of HPV E5, E6 and E7 in Thai patients with HPV infection. (Manuscript in preparation)
2. **Hansasuta P**, Incomserb P, Bhattarakosol P, Buranapraditkul S, Ruxrungtham K, and Rickinson A. Detection of EBV-specific CD8+ T cell responses in HIV-infected patients. (Manuscript in preparation)
3. **Hansasuta P**, Buranapraditkul S, Ruxrungtham K, and Rowland-Jones SL. Synthesis of HLA-A*1101-QVPL tetrameric complexes for monitoring T cell responses in Thai patients. (Manuscript in preparation)
4. **Hansasuta P**, Buranapraditkul S, Sanruk J, Hanke T, McNicholl J, de Groot A, Phanuphak P, McMichael AJ, Ruxrungtham K, and Rowland-Jones SL. Cross clade HIV-specific CD8+ T cell responses in Thai patients. (Manuscript in preparation)
5. Spina C[✦], **Hansasuta P[✦]**, Wong J, Ogg G, Little SD, Havlir D, Richman DD, and Rowland-Jones SL. Predominance of nef-specific CD8 cell responses in acute HIV infection and persistence of HIV-specific CD8 memory cells during viral suppression. (Manuscript in preparation)

✦ *Joint first author*

6. Carla A. Herberts, Assan Jaye, Jacqueline van Gaans-van den Brink, Martien C.M. Poelen, Claire J. Boog, **Pokrath Hansasuta**, Peter Hoogerhout, Sarah Rowland-Jones, Rob van Binnendijk, Hilton Whittle, Cécile A.C.M. van Els. Ex vivo analysis of measles virus epitope specific CD8+ T cells in peripheral blood using IFN γ ELISPOT and MHC-tetramers. (Manuscript in preparation)
7. Incomserb P, Bhattarakosol P, Kulwichit W, Chantratita and **Hansasuta P**. Establishment of Real-Time Polymerase Chain Reaction Based Assay for Quantitation of Epstein-Barr Virus DNA in Healthy Donors and in Patients with EBV Associated Lymphoma. *J Med Assoc Thai* 2005; 88(Suppl4): S280-6.
8. Tuksinvaracharn R, Tanayapong P, Pongrattanaman S, **Hansasuta P**, Bhattarakosol P and Siriyasatien P. Prevalence of Dengue Virus in Aedes Mosquitoes by Semi-nested Polymerase Chain Reaction (Semi-nested PCR). *J Med Assoc Thai* 2004; 87(Suppl2): S129-33.
9. **Hansasuta P**, Incomserb P, Buranapraditkun S and Bhattarakosol P. Establishment of Cytotoxic T Lymphocytes Specific for Autologous Epstein-Barr Virus in HIV-infected Patients: The Feasibility Study of EBV-specific immunotherapy for Patients With EBV-associated Lymphoma. *J Med Assoc Thai* 2004; 87(Suppl2): S146-51.
10. **Hansasuta P**, Dong T, Thananchai H, Weekes M, Willberg C, Aldemir H, et al. Recognition of HLA-A3 and HLA-A11 by KIR3DL2 is peptide-specific. *Eur J Immunol* 2004;34(6):1673-9.
11. Appay V, Papagno L, Spina CA, **Hansasuta P**, King A, Jones L, et al. Dynamics of T cell responses in HIV infection. *J Immunol* 2002;168(7):3660-6.
12. Appay V, **Hansasuta P**, Sutton J, Schrier RD, Wong JK, Furtado M, et al. Persistent HIV-1-specific cellular responses despite prolonged therapeutic viral suppression. *Aids* 2002;16(2):161-70.
13. **Hansasuta P** and Rowland-Jones, SL. HIV-1 infection and acute HIV-1 infection. *British Medical Bulletin* 2001;58:109-27.
14. Rowland-Jones SL, Pinheiro S, Kaul R, **Hansasuta P**, Gillespie G, Dong T, Plummer FA, Bwayo JB, Fidler S, Weber J, McMichael A, Appay V. How important is the 'quality' of the cytotoxic T Lymphocyte (CTL) response in protection against HIV infection? *Immunol Lett.* 2001 Nov 1;79(1-2):15-20.

15. **Hansasuta, P** and Rowland-Jones, S.L. What makes some people resistant to HIV infection? Current Medical Literature-Infectious Diseases 2000;14:85-91.
16. Rowland-Jones SL, Dong T, Dorrell L, Ogg G, **Hansasuta P**, Krausa P, Kimani J, Sabally S, Ariyoshi K, Oyugi J, MacDonald KS, Bwayo J, Whittle H, Plummer FA, McMichael AJ. Broadly cross-reactive HIV-specific cytotoxic T-lymphocytes in highly-exposed persistently seronegative donors. Immunol Lett. 1999 Mar;66(1-3):9-14.
17. Tan R, Xu X, Ogg GS, **Hansasuta P**, Dong T, Rostron T, Luzzi G, Conlon CP, Screaton GR, McMichael AJ, Rowland-Jones S. Rapid death of adoptively transferred T cells in acquired immunodeficiency syndrome. Blood. 1999 Mar 1;93(5):1506-10.
18. Tan LC, Gudgeon N, Annels NE, **Hansasuta P**, O'Callaghan CA, Rowland-Jones S, McMichael AJ, Rickenson AB, Callan MF. A re-evaluation of the frequency of CD8+ T cells specific for EBV in healthy virus carriers. J Immunol. 1999 Feb 1; 162(3):1827-35.
19. Ogg GS, Dong T, **Hansasuta P**, Dorrell L, Clarke J, Coker R, Luzzi G, Conlon C, McMichael AP, Rowland-Jones S. Four novel cytotoxic T-lymphocyte epitopes in the highly conserved major homology region of HIV-1 Gag, restricted through B*4402, B*1801, A*2601, B*70 (B*1509) AIDS. 1998 Aug 20;12(12):1561-3.

5. ผู้ร่วมโครงการ (ไทย) นายมณฑล เลิศวรปรีชา

(อังกฤษ) Mr. Monthon Lertworapreecha

ตำแหน่ง อาจารย์ 5

สถานที่ทำงาน ภาควิชาชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยทักษิณ

ที่อยู่ทำงาน ต.เขารูปช้าง อ. เมือง จ.สงขลา 90000

โทรศัพท์ 0-65004120

e-mail monthon@tsu.ac.th, worapreecha@yahoo.com

ประวัติการศึกษา:

คุณวุฒิ	ปีค.ศ. ที่จบ	ชื่อสถานศึกษา
B.Sc. Animal Health Science	1994	Rajamangala Institute of Technology
M.Sc. Medical Microbiology	1998	Chulalongkorn University



ผลงานวิชาการ

1. Bhattarakosol P., A. Poonnani , **M. Lertworapreecha** and S. Niruthisard. Human papilloma virus infection in CIN III and cervical cancer in Thai woman. ICMR Annals, Kobe, Japan, 1997.
2. **Lertworapreecha M.**, P. Bhattarakosol, and S. Niruthisard. Detection and typing of human pillomavirus in cervical intraepithelial neoplasia grade III in Thai women. Southeast Asian J Trop Med Public Health, Sep 1998; 29(3): 507-11.
3. Bhattarakosol P., **M. Lertworapreecha**, N. Kitkumthorn, S. Triratanachai, and S. Niruthisard. Survey of human papillomavirus infection in cervical intraepithelial neoplasia in Thai women. J Med Assoc Thai, Jun 2002; 85 Suppl 1: S360-5.
4. Chalermchaikit T., **M. Lertworapreecha**, J. Sasipreeyajan, S. Lueangyoslurchakul, P. Assawacheep, S. Wattanapunsk, T. Kiensaew, and K. Poossiri. Prevalence of Antimicrobial Resistance of Salmonella in chickens and pigs in Thailand : Reflection of the Overuse of Antimicrobial Drugs. International Conference on Emerging Infectious Disease 2002,Atlanta, USA. 24-27 March 2002.
5. Chalermchakit T., K. Poonsook, K. Dangprom, **M. Lertworapreecha** and K. Jotisakulratana Efficiency of Antimicrobial Residue Screening Test Kit for Meat “CM-Test” Agricultural Sci. J. 2002; 33 : 6 (Suppl) 336-379.
6. Jaremporn N., C. Bantaokul,N. Tipmongkolsilp, **M. Lertworapreecha**, J. Wongtavachai. Antimicrobial susceptibility test on Vibrio pathogens from Black Tiger Shrimp *Peneaeus Monodon*. Thai J. Vet. Med. June 2003; 33(2) 71-78.
7. Aarestrup F. M., **M. Lertworapreecha**, M. C. Evans, A. Bangtrakulnonth, T. Chalermchaikit, R.S.H., H.C. Wegener. Antimicrobial susceptibility and occurrence of resistance genes among *Salmonella enterica* serovar Weltevreden from different countries. J. Antimicrob. Chemother. 2003 52, 715-718.
8. **Lertworapreecha, M.**, Thammachotruja, L., Bhattarakosol, P. Prevalence and distribution of HPV type in Thai women. Chula. Med. J. 2008; 52:161-7.
9. **Lertworapreecha, M.**, Patumraj, S., Niruthisard, S., Hansasuta, P., Bhattarakosol, P. Mouse acquired HPV tumor using dorsal skin-fold window chamber. Indian. J. Exp. Biol. 2009;47:327-32.

