

Curriculum Vitae

Name: Dr. Chuan-Liang Kao

Education and Study:

1. 1965-1969 BS degree School of Medical Technology, College of Medicine, National, Taiwan University, Taiwan.
2. 1982-1983 Research Fellow, Division of Infectious Disease, Boston Children's Hospital, Harvard Medical School, USA
3. 2002-2012 Ph.D. degree Graduate Institute of Epidemiology and Preventive Medicine, College of Public Health, National Taiwan University

Training:

1. 2001 (7-15, March) TAF-CNLA: Training of Assessor for ISO 15189 accreditation (40 hours)
2. 2003 (8, November) COLA: Training Workshop on Biomedical Laboratory Practices (GBLP-1)
3. 2004 (4-9 July) APLAC: ISO15189 workshop

Present Position :

1. Associate Professor of Department of Clinical Laboratory Sciences and Medical Biotechnology, College of Medicine, National Taiwan University (1981-now)
2. Senior Assessor and Technical Committee Member of Laboratory Accreditation (ISO 17025 and 15189) of Taiwan Accreditation Foundation (TAF) (2000-now)
3. Member of Division of Molecular and Immunology, Committee of Proficiency Testing of TSLM--TAF accredited PT provider (P008) (2000-now)
4. Standing Director of Taiwan Society of Medical Laboratory Management (2019-now)
5. Board of Council of Taiwan Society of Microbiology (1992-Now)
6. Board of Controller of Taiwan Biological Safety Association (2013-now)
7. Board of Controller of Taiwan Society of Virology and Vaccinology (2014-now)
8. Member of Executive Board of Councils of Taiwanese Committee for Clinical Laboratory Standards (TCCLS) (2001-now)
9. Editors
Associate Editors. The Journal of Microbiology, Immunology and Infection (2014-).

Editor. Asia-Pacific Journal of Blood Types and Genes (2016-)

Editor: International J of Clinical & Medical Microbiology (2017-)

10. Journal reviewer:

BMC Infectious Disease

Journal of Medical Virology (JMV)

Acta Paediatrica

Plos One

Journal of International Medical Research

Disease Markers (Hindawi)

Workplace Health and Safety

Experience:

1. 2001-Now Senior assessor of laboratories accreditation of TAF (ISO 15189, ISO17025)
- 2.. 2006-2012 Associate Director of Department of Laboratory Medicine, National Taiwan University Hospital
4. 1995-2012 Director of Division of Clinical Virology, Department of Laboratory Medicine, National Taiwan University Hospital
5. 2000-2006 President of Taiwan Society of Laboratory Medicine (TSLM), Taiwan:
- 6.2007-2018 Member of Executive Board of Councils of Taiwan Society of Laboratory Medicine (TSLM)
7. 1989-1991 President of Taiwan Association of Medical Technologists (TAMT), Taiwan
8. 2013-2016 President of Taipei Association of Medical Technologists
9. 2019-2020 Advisor of Committee of Proficiency Testing of TSLM --TAF accredited PT provider (P008)
10. 2000-2018 Director of Committee of Proficiency Testing of TSLM--TAF accredited PT provider (P008)
11. 1974-1981 Instructor of School of Medical Technology, College of Medicine, National Taiwan University
12. 1970-1974 Teaching Assistant of School of Medical Technology, College of Medicine, National Taiwan University
13. 2006-2012 Principal Investigator of PT exercise programs (including HIV and

hepatitis serology marker and HIV viral load) granted by
Department of Health, Taiwan.

14. 2014-2020 Member at large of IFBLS
15. 2008-2014 Board of Council member of IFBLS
16. 2014 Chairman of 31st World Congress of Biomedical Laboratory Science, Taipei, Taiwan, IFBLS.
- 17..2003-2017 Member of Advisor Committee for Influenza Control, Department of Health, Taiwan.
18. 2011-2020 Editor in Chief, International Journal of Biomedical Laboratory Science (e-journal of IFBLS)
19. 2014-2016 Editor in Chief. Asian Journal of Medical Laboratory Science (e-journal of AAMLS)
20. 2016-2018. Editor in Chief. Journal of Biomedical and Laboratory Sciences

Awards received

- 1994 Best Teaching Award, College of Medicine (National Taiwan University)
- 2003 Contribution in Laboratory Medicine Award (Taiwan Society of laboratory Medicine)
- 2004 Research Contribution Award (National Taiwan University)
- 2008 Distinguished Social Service Award (National Taiwan University)
- 2010 Forty Years Senior Outstanding Teacher Award (Department of Education, Taiwan, ROC)
- 2011 Best Student Poster Award (College of Public Health, National Taiwan University)
- 2012 Outstanding Ph. D. Graduate Student (College of Public Health National Taiwan University)
- 2013 Outstanding and Valuable Contribution Award, 2013. (Asia Association of Medical Laboratory Scientists)

Published Papers (2004 –Present)

1. Ko HY, Li YT, Chao DY, Chang YC, Li ZT, Wang M, Kao CL, Wen TH, Shu PY, Chang GJ, King CC. Inter- and intra-host sequence diversity reveal the emergence of viral variants during an overwintering epidemic caused by dengue virus serotype 2 in southern Taiwan. PLoS Negl Trop Dis. 2018 Oct 4;12(10):e0006827. doi: 10.1371/journal.pntd.0006827. [Epub ahead of print] PMID: 30286095 (SCI)

2. Kao CL*. Current development of laboratory diagnosis of zika virus. *Asian J Med Lab Sci* 2017; 1: 1-9.
3. Yang SC, Lin HC, Liu TM, Lu JT, Hung WT, Huang YR, Tsai YC, Kao CL, Chen SY, Sun CK Efficient Structure Resonance Energy Transfer from Microwaves to Confined Acoustic Vibrations in Viruses. *Sci Rep.* 2015 Dec 9;5:18030. doi: 10.1038/srep18030 (SCI)
4. Chang CK, Kao CF, Lin PH, Huang HL, Ho SY, Wong KC, Lin BC, Yeh CC, Lee CY, Kao CL, Lee CN, Chang SY, Yang JY. Evaluation of performance of human immunodeficiency virus antigen/antibody combination assays in Taiwan. *J Microbiol Immunol Infect.* 2015 Aug 29. pii: S1684-1182(15)00815-4 (SCI).
5. Li YT, Ko HY, Lee CC, Lai CY, Kao CL, Yang C, Wang WB, King CC Phenotypic and Genetic Characterization of Avian Influenza H5N2 Viruses with Intra- and Inter-Duck Variations in Taiwan.. *PLoS One.* 2015 Aug 11;10(8):e0133910 (SCI)
6. Shao PL, Lu MY, Liao YJ, Kao CL, Chang SY, Huang LM. Lack of resistance-associated mutations in UL54 and UL97 genes of circulating cytomegalovirus strains isolated in a medical center in Taiwan. *J Formos Med Assoc.* 2012; 111(8):456-60. (SCI)
7. Chen WH, Lu CY, Shao PL, Lee PI, Kao CL, Chung MY, Chang LY, Huang LM. Risk factors of severe novel influenza A (H1N1) infections in hospitalized children. *J Formos Med Assoc.* 2012; 111(8):421-6. (SCI)
8. Tsou TP, Shao PL, Lu CY, Chang LY, Kao CL, Lee PI, Yang PC, Lee CY, Huang LM. Viral load and clinical features in children infected with seasonal influenza B in 2006/2007. *J Formos Med Assoc.* 2012; 111(2):83-7.(SCI)
9. Hu W, Yen YT, Singh S, Kao CL, Wu-Hsieh BA. SARS-CoV regulates immune function-related gene expression in human monocytic cells. *Viral Immunol.* 2012; 4:277-88. (SCI)
10. Kao CL*, Chan TC, Tsai CH, Chu KY, Chuang SF, Lee CC, Li ZR, Wu KW, Chang LY, Shen YH, Huang LM, Lee PI, Yang C, Compans R, Rouse BT, King CC. Emerged HA and NA mutants of the pandemic influenza H1N1 viruses with increasing epidemiological significance in Taipei and Kaohsiung, Taiwan, 2009-10. *PLoS One.* 2012; 7(2):e31162. (SCI)
11. Huang WC, Huang LM, Kao CL, Lu CY, Shao PL, Cheng AL, Fan TY, Chi H, Chang LY. Seroprevalence of enterovirus 71 and no evidence of crossprotection of enterovirus 71 antibody against the other enteroviruses in kindergarten children in Taipei city. *J Microbiol Immunol Infect.* 2012; 45(2): 96-101. (SCI)

12. Lai CC, Lee PL, Tan CK, Huang YT, Kao CL, Wang JT, Hsueh PR. Pneumonia due to pandemic (H1N1) 2009 influenza virus and *Klebsiella pneumoniae* capsular serotype K16 in a patient with nasopharyngeal cancer. *J Microbiol Immunol Infect.* . 2012; 45(5): 382-4 (SCI)
13. Lin PH, Ke YY, Su CT, Shiao HY, Hsieh HP, Chao YK, Lee CN, Kao CL, Chao YS, Chang SY. Inhibition of HIV-1 Tat-mediated transcription by a coumarin derivative, BPRHIV001, through the Akt pathway. *J Virol.* 2011; 85(17):9114-26. (SCI)
14. Chuang CY, Kao CL, Huang LM, Lu CY, Shao PL, Lee PI, Chang LY. Human bocavirus as an important cause of respiratory tract infection in Taiwanese children. *J Microbiol Immunol Infect.* 2011; 44(5):323-7. (SCI)
15. Tan CK, Kao CL, Shih JY, Lee LN, Hung CC, Lai CC, Huang YT, Hsueh PR. Coinfection with *Mycobacterium tuberculosis* and pandemic H1N1 influenza A virus in a patient with lung cancer. *J Microbiol Immunol Infect.* 2011; 44(4):316-8.(SCI)
16. Hsu CH, Lu CY, Shao PL, Lee PI, Kao CL, Chung MY, Chang LY, Huang LM. Epidemiologic and clinical features of non-polio enteroviral infections in northern Taiwan in 2008. *J Microbiol Immunol Infect.* 2011; 44(4):265-73.(SCI)
17. Ho BC, Yu SL, Chen JJ, Chang SY, Yan BS, Hong QS, Singh S, Kao CL, Chen HY, Su KY, Li KC, Cheng CL, Cheng HW, Lee JY, Lee CN, Yang PC. Enterovirus-induced miR-141 contributes to shutoff of host protein translation by targeting the translation initiation factor eIF4E. *Cell Host Microbe.* 2011; 9(1):58-69.(SCI)
18. Huang WT, Lee PI, Chang LY, Kao CL, Huang LM, Lu CY, Chen JM, Lee CY. Epidemic pleurodynia caused by coxsackievirus B3 at a medical center in northern Taiwan. *J Microbiol Immunol Infect.* 2010; 43(6):515-8.(SCI)
19. Wu PC, Huang LM, Kao CL, Fan TY, Cheng AL, Chang LY. An outbreak of coxsackievirus A16 infection: comparison with other enteroviruses in a preschool in Taipei. *J Microbiol Immunol Infect* 2010; 43(4):271–277. (SCI)
20. Chan TC, Hsiao CK, Lee CC, Chiang PH, Kao CL, Liu CM, King CC. The impact of matching vaccine strains and post-SARS public health efforts on reducing influenza-associated mortality among the elderly. *PLoS One.* 2010 Jun 25;5(6):e11317. (SCI)
21. Wang CL, Lin PC, Chien YC, Kao CL*. Rapid Detection of Methicillin-resistant *S. Aureus* (MRSA) by Using a New Luminex Technology. *J Biomed Lab Sci* 2009; 21: 60-68.

22. Tsai YT, Chang SY, Lee CN, Kao CL*. Human TLR3 recognizes dengue virus and modulates viral replication in vitro. *Cell Microbiol.* 2009 Apr;11(4):604-15. Epub 2009 Feb 4. (SCI)
23. Chang SY, Ko WS, Kao JT, Chang LY, Sun HY, Chen MY, Hsieh SM, Sheng WH, Chang SF, Liu WC, Wu CH, Hsu HJ, Kao CL, Lee CN, Hung CC, Chang SC. Association of Single-Nucleotide Polymorphism 3 and c.553G>T of APOA5 with Hypertriglyceridemia after Treatment with Highly Active Antiretroviral Therapy Containing Protease Inhibitors in HIV-Infected Individuals in Taiwan. *Clin Infect Dis.* 2009 Mar 15;48(6):832-835. (SCI)
24. Yen FB, Chang LY, Kao CL, Lee PI, Chen CM, Lee CY, Shao PL, Wang SC, Lu CY, Huang LM. Coxsackieviruses infection in northern Taiwan--epidemiology and clinical characteristics. *J Microbiol Immunol Infect.* 2009 Feb;42(1):38-46.
25. Wu CH, Yeh SH, Tsay YG, Shieh YH, Kao CL, Chen YS, Wang SH, Kuo TJ, Chen DS, Chen PJ. Glycogen Synthase Kinase-3 Regulates the Phosphorylation of Severe Acute Respiratory Syndrome Coronavirus Nucleocapsid Protein and Viral Replication. *J Biol Chem.* 2009 Feb 20;284(8):5229-5239. Epub 2008 Dec 23. (SCI)
26. Liu JJ, Kao CL, Hsieh SC, Wey MT, Kan LS, Wang WK. Identification of a minimal peptide derived from heptad repeat (HR) 2 of spike protein of SARS-CoV and combination of HR1-derived peptides as fusion inhibitors. *Antiviral Res.* 2009 Jan;81(1):82-7. (SCI)
27. Lin YP, Kao CL, Chang SY, Taniguchi K, Hung PY, Lin HC, Huang LM, Huang HH, Yang JY, Lee CN. Determination of Human Rotavirus VP6 Genogroups I and II by Reverse Transcription-Polymerase Chain Reaction. *J Clin Microbiol.* 2008 Oct;46(10):3330-7. (SCI)
28. Lai CY, Tsai WY, Lin SR, Kao CL, Hu HP, King CC, Wu HC, Chang GJ, Wang WK. Antibodies to envelope glycoprotein of dengue virus during the natural course of infection are predominantly cross-reactive and recognize epitopes containing highly conserved residues at the fusion loop of domain II. *J Virol.* 2008 Jul; 82(13):6631-43. (SCI)
29. Lin HC, Kao CL, Chang LY, Hsieh YC, Shao PL, Lee PI, Lu CY, Lee CY, Huang LM. Astrovirus gastroenteritis in children in Taipei. *J Formos Med Assoc.* 2008 Apr;107(4):295-303. (SCI)
30. Su CT, Hsu JT, Hsieh HP, Lin PH, Chen TC, Kao CL, Lee CN, Chang SY. Anti-HSV activity of digitoxin and its possible mechanisms. *Antiviral Res.* 2008 Feb 21; [Epub ahead of print] (SCI)

31. Chao YC, Huang CS, Lee CN, Chang SY, Kao CL*. Higher infection of dengue virus serotype 2 in human monocytes of patients with G6PD deficiency. *PLoS ONE*. 2008 Feb 13;3(2):e1557.
32. Chen CH, Lin YT, Yang YH, Wang LC, Lee JH, Kao CL, Chiang BL. Ribavirin for respiratory syncytial virus bronchiolitis reduced the risk of asthma and allergen sensitization. *Pediatr Allergy Immunol*. 2008 Mar;19(2):166-72. (SCI)
33. Chang SY, Chen MY, Lee CN, Sun HY, Ko W, Chang SF, Chang KL, Hsieh SM, Sheng WH, Liu WC, Wu CH, Kao CL, Hung CC, Chang SC. Trends of antiretroviral drug resistance in treatment-naive patients with human immunodeficiency virus type 1 infection in Taiwan. *J Antimicrob Chemother*. 2008 Mar;61(3):689-93. (SCI)
34. Chang SY, Lee CN, Lin PH, Huang HH, Chang LY, Ko W, Chang SF, Lee PI, Huang LM, Kao CL*. A community-derived outbreak of adenovirus type 3 in children in Taiwan between 2004 and 2005. *J Med Virol*. 2008 Jan;80(1):102-12.(SCI)
35. Wu PS, Chang LY, Berkhout B L. van der Hoek L, Lu CY, Kao CL, Lee PI, Shao PL, Lee CY, Huang FY, Huang LM. Clinical manifestations of human coronavirus NL63 infection in children in Taiwan. *Eur J Pediatr*. 2008 Jan; 167(1):75-80. 2007 Feb 13; [Epub ahead of print] (SCI)
36. Cheng CC, Huang LM, Kao CL, Lee PI, Chen JM, Lu CY, Lee CY, Chang SY, Chang LY. Molecular and clinical characteristics of adenoviral infections in Taiwanese children in 2004-2005. *Eur J Pediatr*. 2007 Sep 18; [Epub ahead of print]. (SCI)
37. Lee JT, Chang LY, Wang LC, Kao CL, Shao PL, Lu CY, Lee PI, Chen JM, Lee CY, Huang LM. Epidemiology of respiratory syncytial virus infection in northern Taiwan, 2001-2005 -- seasonality, clinical characteristics, and disease burden. *J Microbiol Immunol Infect*. 2007 Aug;40(4):293-301.
38. Chang JB, Wu JL, Tsao KC, Hsieh WS, Huang YY, Shih YL, Chang LF, Kao CL*. Accreditation of medical laboratories by using ISO15189 in Taiwan: A report of fitness investigation. *J Biomed Lab Sci* 2007; 19: 47-55.
39. Chang LY, Lee CY, Kao CL, Fang TY, Lu CY, Lee PI, Huang LM. Hand, foot and mouth disease complicated with central nervous system involvement in Taiwan in 1980-1981. *J Formos Med Assoc*. 2007 Feb;106:173-6. (SCI)
40. Chan PC, Wang CY, Wu PS, Chang PY, Yang TT, Chiang YP, Kao CL, Chang LY, Lu CY, Lee PI, Chen JM, Shao P L, Fu-Yuan Huang FY, Lee CY, Huang LM. Detection of human metapneumovirus in hospitalized children with acute

- respiratory tract infection using real-time RT-PCR in a hospital in northern Taiwan. *J Formos Med Assoc.* 2007 Jan;106 (1):16-24. (SCI)
41. Kung CM, King CC, Lee CN, Huang LM, Lee PI, Kao CL* Differences in replication capacity between enterovirus 71 isolates obtained from patients with encephalitis and those obtained from patients with herpangina in Taiwan. *J Med Virol* 2007 Jan; 79:60-8. (SCI)
 42. Chang SY, Sheng WH, Lee CN, Sun HY, Kao CL, Chang SF, Liu WC, Yang JY, Wong WW, Hung CC, Chang SC. Molecular epidemiology of HIV type 1 subtypes in Taiwan: Outbreak of HIV Type 1 CRF07_BC infection in intravenous drug users. *AIDS Res Hum Retroviruses.* 2006 Nov 22(11):1055-66. (SCI)
 43. Lin YP, Chang SY, Kao CL, Huang LM, Chung MY, Yang JY, Chen HY, Taniguchi K, Tsai KS, Lee CN. Molecular epidemiology of G9 rotaviruses in Taiwan between 2000 and 2002. *J Clin Microbiol.* 2006 Oct ;44(10):3686-94.(SCI)
 44. Cheng MF, Chen BC, Kao CL, Kao CH, Hsieh KS, Liu YC. Human metapneumovirus as a causative agent of lower respiratory tract infection in four patients: the first report of human metapneumovirus infection confirmed by RNA sequences in Taiwan. *Scand J Infect Dis.* 2006 May;38(5):392-6.(SCI)
 45. Yen YT, Liao F, Hsiao CH, Kao CL, Chen YC,. Wu-Hsieh BA. Modeling the early events of severe acute respiratory syndrome coronavirus infection in vitro. *J Virol.* 2006 Mar; 80(6):2684-93. (SCI)
 46. Lin KH, Hwang KP, Ke GM, Wang CF, Ke LY, Hsu YT, Tung YC , Chu PY, Chen BH, Chen HL , Kao CL, Wang JR, Eng HL, Sheng-Yu Wang SY, Hsu LC Hour-Young Chen HY. Evolution of EV71 genogroup in Taiwan from 1998 to 2005: an emerging of subgenogroup C4 of EV71. *J Med Virol.* 2006 Feb;78(2):254-62. (SCI)
 47. Chang LY, Chiang BL, Kao CL, Wu MH, Chen PJ, Berkhout B, Yang HC, Huang LM; Kawasaki Disease Research Group. Lack of Association between Infection with a Novel Human Coronavirus (HCoV), HCoV-NH, and Kawasaki Disease in Taiwan.*J Infect Dis.* 2006 Jan 15;193(2):283-6. (SCI)
 48. Yang TT, Huang LM, Lu CY, Kao CL, Lee WT, Lee PI, Chen CM, Huang FY, Lee CY, Chang LY. Clinical features and factors of unfavorable outcomes for non-polio enterovirus infection of the central nervous system in northern Taiwan, 1994-2003. *J Microbiol Immunol Infect.* 2005 Dec;38(6):417-24. (SCI)
 49. Lin S, Lee CK, Lee SY, Kao CL, Lin CW, Wang AB, Hsu SM. Surface ultrastructure of SARS coronavirus revealed by atomic force microscopy. *Cell Microbiol.* 2005 Dec;7(12):1763-70. (SCI)

50. Shao PL, Hsueh PR, Chang LY, Lu CY, Kao CL, Chiang YP, Huang HY, Huang FY, Lee CY, Chang LJ, Wu TC, Huang LM; SARS Research Group of National Taiwan University College of Medicine; National Taiwan University Hospital. Development of immunoglobulin G enzyme-linked immunosorbent assay for the serodiagnosis of severe acute respiratory syndrome. *J Biomed Sci.* 2005 Feb;12(1):59-64. (SCI)
51. Shih SR, Chen GW, Yang CC, Yang WZ, Liu DP, Lin JH, Chiu SC, Chen HY, Tsao KC, Huang HG, Huang YL, Mok CK, Chen CJ, Lin TY, Wang JR, Kao CL, Lin KH, Chen LK, Eng HL, Liu YC, Chen PY, Lin JS, Wang JH, Lin CW, Chan YJ, Lu JJ, Hsiung CA, Pei-Jer Chen PJ, Su IJ. Laboratory-based surveillance and molecular epidemiology of influenza virus in Taiwan. *J Clin Microbiol.* 2005 Apr;43:1651-61. (SCI)
52. Kao CL*, King CC, Chao DY, Wu HL, Chang GJ. Laboratory diagnosis of dengue virus infection: current and future perspectives in clinical diagnosis and public health. *J Microbiol Immunol Infect.* 2005 Feb;38(1):5-16. (SCI)
53. Hsueh PR, Huang LM, Chen PJ, Kao CL*, Yang PC*..Chronological evolution of IgM, IgA, IgG and neutralisation antibodies after infection with SARS-associated coronavirus. *Clin Microbiol Infect.* 2004 Dec;10:1062-6. (SCI)
54. Chang LY, Huang FY, Wu YC, Su IJ, Chiu NC, Chen KT, Wu HS, Lin TH, Peng SF, Kao CL, Lee CY, Huang LM. Childhood severe acute respiratory syndrome in Taiwan and how to differentiate it from childhood influenza infection. *Arch Pediatr Adolesc Med.* 2004 Nov;158:1037-42. (SCI)
55. Wang WK, Chen SY, Liu IJ, Kao CL, Chen HL, Chiang BL, Wang JT, Sheng WH, Hsueh PR, Yang CF, Yang PC, Chang SC; Severe Acute Respiratory Syndrome Research Group of the National Taiwan University College of Medicine/NTU Hospital. Temporal relationship of viral load, ribavirin, interleukin (IL)-6, IL-8, and clinical progression in patients with severe acute respiratory syndrome. *Clin Infect Dis.* 2004 Oct 1;39:1071-5. (SCI)
56. Hsueh PR, Kao CL, Lee CN, Chen LK, Ho MS, Sia C, Fang XD, Lynn S, Chang TY, Liu SK, Walfield AM, Wang CY. SARS antibody test for sero-surveillance. *Emerg Infect Dis.* 2004 Sep;10:1558-62. (SCI)
57. Liu IJ, Hsueh PR, Lin CT, Chiu CY, Kao CL, Liao MY, Wu HC. Disease-specific B Cell epitopes for serum antibodies from patients with severe acute respiratory syndrome (SARS) and serologic detection of SARS antibodies by epitope-based peptide antigens. *J Infect Dis.* 2004 Aug 15;190:797-809. (SCI)
58. Wang WK, Chen SY, Liu IJ, Chen YC, Chen HL, Yang CF, Chen PJ, Yeh SH, Kao CL, Huang LM, Hsueh PR, Wang JT, Sheng WH, Fang CT, Hung CC, Hsieh

- SM, Su CP, Chiang WC, Yang JY, Lin JH, Hsieh SC, Hu HP, Chiang YP, Wang JT, Yang PC, Chang SC; SARS Research Group of the National Taiwan University/National Taiwan University Hospital. Detection of SARS-associated coronavirus in throat wash and saliva in early diagnosis. *Emerg Infect Dis* 2004 Jul;10(7):1213-9. (SCI)
59. Chen HC, Lai SY, Sung JM, Lee SH, Lin YC, Wang WK, Chen YC, Kao CL, King CC, Wu-Hsieh BA. Lymphocyte activation and hepatic cellular infiltration in immunocompetent mice infected by dengue virus. *J Med Virol*. 2004 Jul;73:419-31. (SCI)
60. Chang WT, Kao CL, Chung MY, Chen SC, Lin SJ, Chiang WC, Chen SY, Su CP, Hsueh PR, Chen WJ, Chen PJ, Yang PC. SARS exposure and emergency department workers. *Emerg Infect Dis*. 2004 Jun;10:1117-9. (SCI)
61. Chen YC, Chen PJ, Chang SC, Kao CL, Wang SH, Wang LH, Yang PC; SARS Research Group of National Taiwan University College of Medicine and National Taiwan University Hospital. Infection control and SARS transmission among healthcare workers, Taiwan. *Emerg Infect Dis*. 2004 May;10:895-8. (SCI)
62. Hu JJ, Kao CL, Lee PI, Chen CM, Lee CY, Lu CY, Huang LM. Clinical features of influenza A and B in children and association with myositis. *J Microbiol Immunol Infect*. 2004 Apr;37:95-8. (SCI)
63. Hsueh PR, Chen PJ, Hsiao CH, Yeh SH, Cheng WC, Wang JL, Chiang BL, Chang SC, Chang FY, Wong WW, Kao CL*, Yang PC*; SARS Research Group of National Taiwan University College of Medicine and National Taiwan University Hospital Patient data, early SARS epidemic, Taiwan. *Emerg Infect Dis*. 2004 Mar;10:489-93. (SCI)
64. Yeh SH, Wang HY, Tsai CY, Kao CL, Yang JY, Liu HW, Su IJ, Tsai SF, Chen DS, Chen PJ; National Taiwan University SARS Research Team. Characterization of severe acute respiratory syndrome coronavirus genomes in Taiwan: molecular epidemiology and genome evolution. *Proc Natl Acad Sci U S A*. 2004 Feb 24;101:2542-7. (SCI)
65. Hung JJ, Hsieh MT, Young MJ, Kao CL, King CC, Chang W. An external loop region of domain III of dengue virus type 2 envelope protein is involved in serotype-specific binding to mosquito but not mammalian cells. *J Virol* 2004 Jan;78:378-88. (SCI)

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