

Assistant Professor, Graduate Institute of Biostatistics, College of Public Health

Ph.D., National Taiwan University (Taiwan), 2011

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Research Interests: Biostatistics, Epidemiology

Academic Distinctions:

Appointments:

2011-2014: Postdoctoral fellow: Institute of Epidemiology and Preventive Medicine, College of Public Health, National Taiwan University

2014-2015: Postdoctoral fellow: Division of Bioinformatics and Biostatistics, National Center for Toxicological Research, U.S. Food and Drug Administration

2015-2016: Assistant Research Scholar: Institute of Epidemiology and Preventive Medicine, College of Public Health, National Taiwan University

2016-present: Assistant Professor: Graduate Institute of Biostatistics, CMU

Research Interests:

We applied hierarchical model to examine contextual effects in nested data. We are investigating the association between advanced paternal age and the risk/onset of psychiatric disorders, polygenic architecture of schizophrenia and neurocognitive deficits, and drug-induced adverse event in large datasets.

Representative Publications:

[Inference of cross-level interaction between genes and contextual factors in a matched case-control metabolic syndrome study: a Bayesian approach.](#) Wang S-H, Chen WJ, Chuang L-M, Hsiao P-C, Liu P-H, Hsiao CK* (2013) PLoS ONE 8(2): e56693 (doi:10.1371/journal.pone.0056693)

[Availability of convenience stores and adolescent alcohol use in Taiwan: a multi-level analysis of national surveys.](#) Wang S-H, Lin I-C, Chen C-Y, Chen D-R, Chan T-C, Chen WJ* (2013) Addiction (doi:10.1111/add.12278)

[Association of older paternal age with earlier onset among co-affected schizophrenia sib-pairs.](#) Wang S-H, Liu C-M, Hwu H-G, Hsiao CK, Chen WJ* (2015) Psychological Medicine (doi:10.1017/S0033291715000203)

[Text mining for identifying topics in the literatures about adolescent substance use and depression.](#) Wang S-H, Ding Y, Zhao W, Huang Y-H, Perkins R, Zou W, Chen JJ* (2016) BMC Public Health 16:279

Associate Professor, Department of Public Health

Ph.D., Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan 2007

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Research Interests: The quality and mental health indicators

Academic Distinctions:

Associate Professor, Department of Public Health (2007)

Appointments:

1992-2007: lecturer: Department of Public Health, China Medical University

2007-present: Associate Professor, Department of Public Health, China Medical University

Research Interests:

My research is cooperated with psychiatric clinics to find out the genetic effects in different signaling pathway in drug abuse patients with a candidate genes approach.

We also analysed data to evaluate the results, utility of medical resource and health insurance for intervention methadone therapy in opioid abusers.

Representative Publications:

[Genetic polymorphisms of FADS1, FADS2, and FADS3 and fatty acid profiles in subjects received methadone maintenance therapy.](#) Yang HT, Wang RY, Huang SY, Huang CL, Su KP*. Prostaglandins Leukot Essent Fatty Acids. 2017 Jan 25.

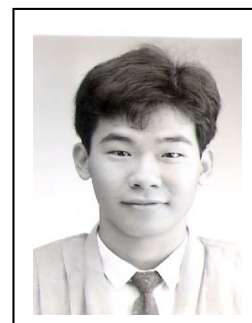
[Association between ischaemic bowel syndromes and androgen deprivation therapy in patients with prostate cancer: a retrospective cohort study.](#) Chiang IN, Huang CY, Pu YS, Chang CH, Muo CH, Chung CJ, Wang RY*, Young TH*. BMJ Open. 2017 Feb 28;7(2):e012950.

[The Relationship between Body Weight Change and Body Constitutions of Traditional Chinese Medicine in Patients with Schizophrenia.](#) Cheng JF, Huang XY, Liu TL, Wang RY, Ching HY. Evid Based Complement Alternat Med. 2016;2016:9585968.

[β-carotene reverses multidrug resistant cancer cells by selectively modulating human P-glycoprotein function.](#) Teng YN, Sheu MJ, Hsieh YW, Wang RY, Chiang YC, Hung CC.* Phytomedicine. 2016 Mar 15;23(3):316-23.

[Risk of pneumonia among patients with chronic kidney disease in outpatient and inpatient settings: a nationwide population-based study.](#) Chou CY, Wang SM, Liang CC, Chang CT, Liu JH, Wang IK, Hsiao LC, Muo CH, Huang CC, Wang RY. Medicine (Baltimore). 2014 Dec;93(27):e174.

[Fine-mapping angiotensin-converting enzyme gene: separate QTLs identified for hypertension and for ACE activity.](#) Chung CM, Wang RY, Fann CS, Chen JW, Jong YS, Jou YS, Yang HC, Kang CS, Chen CC, Chang HC, Pan WH. PLoS One. 2013;8(3):e56119.



Chairperson of Health Center
Director of Service Learning Center
Team Leader of Career Development and Alumni Liaison Division
Associate Professor, Department of Public Health, College of Public Health

Sc.D., Toxicology and Risk Assessment, Tulane University (USA), 2003

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Research Interests: Risk Assessment, Health Data Analysis, Environmental Epidemiology, Pharmacology Epidemiology, Cancer Epidemiology

Academic Distinctions:

- 1 Best Poster Award , TPHA&TEA&TIPSPA&TSCR Joint annual meeting (2016)
- 2 Best Poster Award , TPHA&TEA&TIPSPA&TSCR Joint annual meeting (2015)
- 3 SRA Best Poster Award , Society for Risk Analysis, USA (2011)
4. Best Poster Award , TPHA&TEA&TIPSPA Joint annual meeting (2010)
- 5 SRA Best Poster Award , Society for Risk Analysis, USA (2006)

Appointments:

- 2013 – Associate Professor, China Medical University, Department of Public Health
2005 –2012 Assistant Professor, China Medical University, Department of Public Health
2004 –2005 Post Doctorate Associate (co-instructor of regulatory toxicology and risk assessment)
School of Public Health and Tropical Medicine – Department of Environmental Health Sciences & Center for Applied Environmental Public Health, New Orleans, LA, USA
2003 – 2004 Post Doctorate Associate, School of Public Health and Tropical Medicine –
Department of Environmental Health Sciences & Center for Applied Environmental Public Health, New Orleans, LA, USA

Research Interests:

Epidemiology, Risk Assessment, Health Data Analysis

Representative Publications:

[Body mass index may modify asthma prevalence among low-birth-weight children.](#) Lu FL, Hsieh CJ, Caffrey JL, Lin MH, Lin YS, Lin CC, Tsai MS, Ho WC*, Chen PC, Sung FC, Lin RS. AMERICAN JOURNAL OF EPIDEMIOLOGY , 2012 Jul , 176(1): 32-42.

[Statins and the Risk of Hepatocellular Carcinoma in Patients with Hepatitis C Virus Infection.](#) Tsan YT, Lee CH, Ho WC, Lin MH, Wang JD, Chen PC*. JOURNAL OF CLINICAL ONCOLOGY , 2013 Apr , 31(12):1514-1521.

[Progress of Diabetic Severity and Risk of Dementia.](#) Chiu WC, Ho WC, Liao DL, Lin MH, Chiu CC, Su YP, Chen PC*, hDATA. JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM , 2015 Aug , 100(8):2899-2908.

CMU Faculty Profile

[Fetal Growth, Obesity, and Atopic Disorders in Adolescence: a Retrospective Birth Cohort Study.](#)

Lin MH, Hsieh CJ, Caffrey JL, Lin YS, Wang IJ*、Ho WC*、Chen PC, Wu TN, Lin RS. PAEDIATRIC AND PERINATAL EPIDEMIOLOGY、2015 Sep、29(5):472-479.

[Long-term outcomes of systemic lupus erythematosus patients after pregnancy: A nationwide population-based cohort study.](#)

Chiu TF, Chuang YW, Lin CL, Yu TM, Chung MC, Li CY, Chung CJ, Ho WC*. PLoS One、2016 Dec、11(12):

CMU Faculty Profile

Fang-Yang Wu

Professor,
Department of Public Health, China Medical University College of Public Health

Ph.D., Health Science, University of Tokyo, (Japan), 1994

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Research Interests: Gene, Environment and Disease, Public Health

Appointments:

1995-1997: Associate Professor and Chairman, Department of Health Care Administration, Meiho University

1997-2003: Associate Professor, Institute of Environmental Health, CMU

2003-2006: Professor, Institute of Environmental Health, CMU

2006-2012: Professor and Chairman, Department of Public Health, Institute of Environmental Health, CMU

2012-present: Professor, Department of Public Health, CMU

Research Interests:

The area of my study is in gene, environment and disease research. This is indicated by his publications in journals, including Osteoporos Int, Experimental Gerontology. Our study subjects will be from participants of the Taichung Community Health Study for Elders (TCHS-E), Taichung Health Study (TCHS), and family study of TCHS. We undertake the analysis of haplotype and the possible joint effects and interactions for the disease between gene polymorphisms or/and physical activity.

Representative Publications:

[Associations of TNF- \$\alpha\$ and IL-6 polymorphisms with osteoporosis through joint effects and interactions with LEPR gene in Taiwan: Taichung Community Health Study for Elders \(TCHSE\).](#) Lin CC, Li TC, Liu CS, Yang CW, Lin CH, Hsiao JH, Meng NH, Lin WY, Liao LN, Li CI, **Wu FY***. *Mol Biol Rep.* **2016** Oct 43(10):1179-91.

[Retrospective cohort evaluation on risk of pneumonia in patients with pulmonary tuberculosis.](#) Chang TM, Mou CH, Shen TC, Yang CL, Yang MH, **Wu FY***, Sung FC*. *Medicine.* **2016** Jun 95:26 : e4000~.

[Joint effect of gene-physical activity and the interactions among CRP, TNF- \$\alpha\$, and LTA polymorphisms on serum CRP, TNF- \$\alpha\$ levels, and handgrip strength in community-dwelling elders in Taiwan -TCHS-E.](#) Li CI, Li TC, Liao LN, Liu CS, Yang CW, Lin CH, Hsiao JH, Meng NH, Lin WY, **Wu FY***, Lin CC*. *AGE.* **2016** Apr 38(2):46~62.

[Association of CRP gene polymorphisms with serum CRP level and handgrip strength in community-dwelling elders in Taiwan: Taichung Community Health Study for Elders \(TCHS-E\).](#) Lin CC#, **Wu FY#**, Liao LN, Li CI, Lin CH, Yang CW, Meng NH, Chang CK, Lin WY, Liu CS, Li TC. *Experimental Gerontology.* **2014** Sep 57:141~148.

[Vitamin D receptor variability and physical activity are jointly associated with low handgrip strength and osteoporosis in community-dwelling elderly people in Taiwan: the Taichung Community Health Study for Elders \(TCHS-E\).](#) **Wu FY#**, Liu CS #, Liao LN, Li CI, Lin CH, Yang CW, Meng NH, Lin WY, Chang CK, Hsiao JH, Li TC, Lin CC. *Osteoporosis International.* **2014** Jul 25:1917~1929

Professor, Graduate Institute of Biostatistics, College of Public Health

Ph.D. in Epidemiology, School of Public Health, University of Michigan, Ann Arbor, U.S.A., 1988-1994

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Research Interests: Biostatistics, Epidemiology, and Clinical trials

Academic Distinctions:

Distinguished Professor, College of Public Health, CMU (2016)

Distinguished Teaching Professor, College of Public Health, CMU (2009)

Distinguished Teaching Professor, College of Chinese Medicine, CMU (2005)

Appointments:

1984-2006: Associate Professor: Graduate Institute of Chinese Medical Science, CMU

1997-present: Associate Research Fellow: Medical Research, CMUH

2007-present: Professor: Graduate Institute of Biostatistics, CMU

2008-2012: Chair: Graduate Institute of Biostatistics, CMU

Research Interests:

My research fields are in community health, diabetes and cardiovascular diseases, data analysis in clinical trials and genetic epidemiology. My research team completed a three-wave longitudinal follow-up study of Taichung Community Health Study (TCHS) and Taichung Community Health Study for Elders (TCHS-E) for estimating the incidence of metabolic syndrome, frailty and sarcopenia. The fourth wave of data collection is ongoing. We have a lot of experiences in conducting a community-based epidemiology study and national population-based study.

Representative Publications:

[Variability of fasting plasma glucose increased risks of diabetic polyneuropathy in T2DM](#) Yang CP, Li CI, Liu CS, Lin WY, Hwang KL, Yang SY, Li TC*, Lin CC*. **Neurology**. 2017 Feb 8. pii: 10.1212/WNL.0000000000003682.

[Impact of lifestyle-related factors on all-cause and cause-specific mortality in patients with type 2 diabetes mellitus: The Taichung Diabetes Study](#). Lin CC, Li CI, Liu CS, Lin WY, Fuh MM, Yang SY, Lee CC, Li TC. **Diabetes Care**. 2012 Jan;35(1):105-12.

[Visit-to-visit variability of fasting plasma glucose as predictor of ischemic stroke: competing risk analysis in a national cohort of Taiwan Diabetes Study](#). Lin CC, Yang CP, Li CI, Liu CS, Chen CC, Lin WY, Hwang KL, Yang SY, Li TC*. **BMC Med**. 2014 Sep 26;12:165.

[Enterovirus infection is associated with an increased risk of childhood type 1 diabetes in Taiwan: a nationwide population-based cohort study](#). Lin HC, Wang CH, Tsai FJ, Hwang KP, Chen W, Lin CC*, Li TC*. **Diabetologia**. 2015 Jan;58(1):79-86.

[Glycated Hemoglobin Level and Risk of Hip Fracture in Older People with Type 2 Diabetes: A Competing Risk Analysis of Taiwan Diabetes Cohort Study](#). Li CI, Liu CS, Lin WY, Meng NH, Chen CC, Yang SY, Chen HJ, Lin CC, Li TC. **J Bone Miner Res**. 2015 Jul;30(7):1338-46.

Associate Professor, Department of Public Health, College of Public Health

Ph.D., National Cheng-Kung University (Taiwan), 2005

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Research Interests: Industrial and occupational epidemiology, Sleep physiological alteration, Skin absorption and physiological alteration

Academic Distinctions:

Distinguished Mentor, China Medical University (2006)

Best Research Score Award, China Medical University (2009)

Appointments:

2005: Postdoctoral fellow: Department of Environmental and Occupational Medical College, National Cheng Kung University

2006-2009: Assistant Professor: Graduate Institute of Environmental Health, CMU

2009-present: Associate Professor: Department of Public Health, CMU

Research Interests:

Our lab try to find the association between exposure and disease in occupational settings. We have combined the epidemiology approaches, field observation study, and well controlled experiments study in the lab to postulate the relationship of occupational exposure and disease. Now we focus on the specific exposure route like skin exposure and skin absorption, and the specific disease like sleep apnea and other sleep problems among occupational workers.

Representative Publications:

Liang-Wen Hang, Cheng, Chi-Fung, Chang-Bi Wang, Trong-Neng Wu, Wen-Miin Liang*, **Tzu-Chieh Chou***, The association between continuous positive airway pressure therapy and liver disease development in obstructive sleep apnea/hypopnea syndrome patients: a nationwide population-based cohort study in Taiwan, *Sleep and Breathing*, 2016 Nov

Tzu-Chieh Chou*, Po-Chih Wang, Jyun-De Wu, Shiann-Cherng Sheu, Chromium induced skin damage among Taiwanese cement workers, *Toxicology and Industrial Health*, 2016 Oct, 3210:1745-1751

Tzu-Chieh Chou, Wen-Miin Liang, Chang-Bi Wang, Trong-Neng Wu*, Liang-Wen Hang*, Obstructive sleep apnea is associated with liver disease: a population-based cohort study, *Sleep Medicine*, 2015 Aug, 168:955-960

Cheng-Yu Lin, Tung-Sheng Shih, Saou-Hsing Liou, Ming-Hsiu Lin, Cheng-Ping Chang, **Tzu-Chieh Chou***, Predictors for progression of sleep-disordered breathing among public transport drivers: a 3-year follow-up study, *Journal of Clinical Sleep Medicine*, 2015 Apr, 114:419-425

Jing-Fang Hsu#, **Tzu-Chieh Chou#**, Jonathan Lu, Shu-Hua Chen, Fang-Yu Chen, Ching-Chu Chen, Jeffrey L. Chen, MacArthur Elayda, Christie M. Ballantyne, Steven Shayani*, Chu-Huang Chen*, Low-density lipoprotein electronegativity is a novel cardiometabolic risk factor., *PLoS One*, 2014 Sep, 99:e107340-e107340 (equal contribution to first author)

Johan du Plessis*, Aleksandr Stefaniak, Fritz Eloff, Swen John, Tove Agner, **Tzu-Chieh Chou**, Rosemary Nixon, Markus Steiner, Anja Franken, Irena Kudla, Linn Holness, International guidelines for the in vivo assessment of skin properties in non-clinical settings: Part 2. transepidermal water loss and skin hydration, *Skin Research and Technology*, 2013 Aug, 193:265-278

Bour-Jr Wang, Jyun-De Wu, Shiann-Cherng Sheu, Tung-Sheng Shih, Ho-Yuan Chang, Yue-Liang Guo, Ying- Jan Wang, **Tzu-Chieh Chou***, Occupational Hand Dermatitis among Cement Workers in Taiwan, *Journal of The Formosan Medical Association*, 2011 Dec, 11012:775-779

Professor, Graduate Institute of Biostatistics, College of Public Health

Ph.D., University of Michigan (Ann Arbor, USA), 1995

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Research Interests: Medical Outcome Measurement, Biostatistics.

Appointments:

1996-2011: Associate Professor: Graduate Institute of Environmental Health, CMU

2012-2016: Director: Graduate Institute of Biostatistics, CMU

2011-present: Professor: Graduate Institute of Biostatistics, CMU

Research Interests:

There are two areas of my interested research. One is the medical outcome measurement such as psychometrics evaluation of questionnaire or development of responder definition of patient reported outcome. The other one is clinical epidemiology and biostatistics using big data. Several topics of clinical interests such as postoperative complication or mortality for hip fracture patients or effects of Chinese herbal medicine for diabetes patients are actively studied in my research office.

Representative Publications:

1. Lien HC, Wang CC, Lee SW, Hsu JY, Yeh HZ, Ko CW, Chang CS, Liang WM* (2015). Responder Definition of a Patient-Reported Outcome Instrument for Laryngopharyngeal Reflux Based on the US FDA Guidance. *Value in health*, 18(4):396-403. (IF=3.824; 4/75 in HEALTH POLICY & SERVICES - SSCI; 10/88 in HEALTH CARE SCIENCES & SERVICES – SCI; Q1)
2. Lin JC*, Liang WM* (2015): Outcomes after fixation for undisplaced femoral neck fracture compared to hemiarthroplasty for displaced femoral neck fracture among the elderly. *BMC musculoskeletal disorders*, 16:199. (IF=1.684; 30/74 in ORTHOPEDICS - SCI; Q2)
3. Lin JC*, Liang WM* (2015): Mortality and complications after hip fracture among elderly patients undergoing hemodialysis. *BMC nephrology* 2015, 16:100. (IF=2.289; 29/77 in ORTHOPEDICS - SCI; Q2)
4. Tsai FJ, Ho TJ, Cheng CF, Shiao YT, Chien WK, Chen JH, Liu X, Tsang H, Lin TH, Liao CC, Huang SM, Li JP, Lin CW, Lin JG, Lan YC, Liu YH, Hung CH, Lin JC, Lin CC, Lai CH, Liang WM*, Lin YJ* (2017). Characteristics of Chinese herbal medicine usage in ischemic heart disease patients among type 2 diabetes and their protection against hydrogen peroxide-mediated apoptosis in H9C2 cardiomyoblasts. *Oncotarget* 2017 Jan 14. doi: 10.18632/oncotarget.14657. (IF=5.008; 36/213 in MULTIDISCIPLINARY SCIENCES - SCI; Q1)

CMU Faculty Profile

PEI-CHUN CHEN

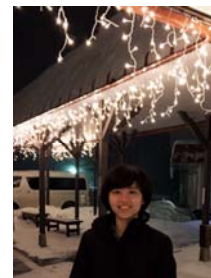
Associate Professor, Department of Public Health, College of Public Health

Ph.D., National Taiwan University (Taiwan), 2008

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Research Interests: Epidemiological Studies of Cardiovascular Disease, Health Outcomes Research

Academic Distinctions:

Postdoctoral research abroad funds sponsored by National Science Council, Taiwan (2008)

Appointments:

2008-2009: Postdoctoral fellow: Graduate Institute of Environmental Health, CMU

2009-2010: Postdoctoral fellow: Department of Epidemiology, University of Washington, Seattle, USA

2010-2012: Assistant Research Fellow: Management Office for Health Data/Center for Taiwan Stroke Registry, CMUH

2012-2014: Project Assistant Professor: Institute of Epidemiology and Preventive Medicine, National Taiwan University

2014-2016: Assistant Professor: Clinical Informatics & Medical Statistics Research Center, Chang Gung University, Taiwan

2016-present: Associate Professor: Department of Public Health, CMU

Research Interests:

Most of research centers around epidemiological studies of metabolic and cardiovascular diseases conducted within a community cohort and using the large healthcare databases. Research interests also include health outcomes research, and studies of elderly health and chronic diseases, particularly in relation to environmental factors.

Representative Publications:

Acupuncture therapy and incidence of depression after stroke. Lu CY, Huang FC, Chang HH, Yang TH, Chang CJ, Chang SW, **Chen PC***. *Stroke* **2017** (Accepted and In-press)

[Carotid atherosclerosis progression and risk of cardiovascular events in a community in Taiwan.](#) **Chen PC**, Jeng JS, Hsu HC, Su TC, Chien KL, Lee YT. *Sci. Rep.* **2016**; 6, 25733; doi: 10.1038/srep25733.

[Epidemiology of moyamoya disease in Taiwan-a nationwide population-based study.](#) **Chen PC**, Yang SH, Chien KL, Tsai IJ, Kuo MF. *Stroke* **2014**; 45: 1258- 1263.

[Increased incidence of gastrointestinal cancers among patients with pyogenic liver abscess: a population-based cohort study.](#) Lai HC, Lin CC, Cheng KS, Kao JT, Chou JW, Peng CY, Lai SW, **Chen PC***, Sung FC*. *Gastroenterology* **2014**; 146: 129-37.e1.

[Population-based cohort analyses of the bidirectional relationship between type 2 diabetes and depression.](#) **Chen PC**, Chan YT, Chen HF, Ko MC, Li CY. *Diabetes Care.* **2013**; 36: 376- 382.

[Statin use and risk of hepatocellular carcinoma.](#) Lai SW, Liao KF, Lai HC, Muo CH, Sung FC, **Chen PC***. *Eur J Epidemiol* **2013**; 28: 485- 492.

Ying-Hen Hsieh

Professor, Department of Public Health, China Medical University

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Research Interests: Modeling and Analysis of Infectious Diseases and Public Health, Mathematical Modeling of Infectious Diseases Epidemiology

Academic Distinctions:

Executive Editor, Journal of Biological Systems (SCI), 2012-present.

China Medical University Faculty Outstanding Research Award, 2007-2013.

National Chung Hsing University Faculty Outstanding Research Award, 2006.

Canadian Studies Scholar Award (awarded by Canadian government), 2005.

Appointments:

1982-1987: Associate Professor, Department of Applied Mathematics, National Chung Hsing University.

1987-2007: Professor, Department of Applied Mathematics, National Chung Hsing University.

1995-1997: Chairman and Professor, Department of Applied Mathematics, National Chung Hsing University.

2007-present: Professor, Department of Public Health, China Medical University.

Research Interests:

Current research topics by my research group in collaboration with international colleagues focus on modeling and analysis of merging and re-emerging infectious diseases of humans including: HIV, dengue fever, Zika, MERS, Ebola, avian influenza and seasonal influenza.

Representative Publications:

Hsieh YH, Huang HM, Lan YC. (2016) On Temporal Patterns and Co-circulation of Influenza Virus Strains in Taiwan, 2008-2014: Implications of 2009 pH1N1 Pandemic, **PLoS ONE**, 11(5): e0154695.

Hsieh YH. (2015) 2015 Middle East Respiratory Syndrome Coronavirus (MERS-CoV) nosocomial outbreak in South Korea: insights from modeling. **PeerJ**, 3 (2015): e1505.

Hsieh YH. (2015) Temporal Course of 2014 Ebola Virus Disease (EVD) Outbreak in West Africa Elucidated through Morbidity and Mortality Data: A Tale of Three Countries. **PLoS ONE**, 10(11), e01408.

Hsieh YH, Liu J, Tzeng YH, Wu J, Impact of visitors and hospital staff on nosocomial transmission and spread to community, **J Theoretical Biology**, 356(2014): 20–29.

Hsieh YH, de Arazoza H, Lounes R. Temporal Trends and Regional Variability of 2001-2002 Multi-wave DENV-3 Epidemic in Havana City: Did Hurricane Michelle Contribute to its Severity? **Tropical Medicine & International Health**. 18(7): 830–838 (2013).