

## 李建宏 (CHIEN-HUNG LEE), PhD



### ADDRESS

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### EDUCATION

B.S. in Public Health, Kaohsiung Medical College, Kaohsiung, Taiwan  
M.S. in Public Health, Kaohsiung Medical College, Kaohsiung, Taiwan  
Ph.D. in Graduate of Medicine (Epidemiology), Kaohsiung Medical University, Kaohsiung, Taiwan  
Post-doctor Fellow in Department of Epidemiology, Tulane University School of Public Health and Tropical Medicine, New Orleans, Louisiana

### CURRENT POSITION

Professor, Department of Public Health, College of Health Science and the Director of Office of Institutional Research & Planning Section, Kaohsiung Medical University, Kaohsiung, Taiwan

### RESEARCH INTERESTS

Prevention and etiology of adolescent metabolic disorder  
Betel-quid substance addiction  
Cancer epidemiology  
Multilevel study  
Intermediate analysis

### PROFESSIONAL EXPERIENCES

Associate Editor of the Kaohsiung Journal of Medical Sciences (SCI Journal), 2014-  
Members of National examiners of the Examination Yuan of the Republic of China, 2013-  
Project Reviewer of the National Science Council, 2011-  
Project Reviewer of the Ministry of Science and Technology, 2013-

### HONORS AND AWARDS

The Best Doctoral Research Award in Kaohsiung Medical University, 2000  
Ministry of Science and Technology Special Talents Award, 2010-2020  
Kaohsiung Medical University Outstanding Research Article Award, 2011-2020

## RECENT PUBLICATIONS (2018-2021)

1. Lin WT, Kao YH, Lin HY, Li MS, Luo T, Fritz JM, Seal DW, **Lee CH**, Hu CY, Tseng TS\*. Age difference in the combined effect of soda drinks consumption and body adiposity on hyperuricemia in US adults. *Public Health Nutr.* 2021 Feb 5;1-25. doi: 10.1017/S1368980021000513.
2. Wu PW, Tsai S, Lee CY, Lin WT, Chin YT, Huang HL, Seal DW, Chen T, **Lee CH**\*. Contribution of insulin resistance to the relationship between sugar-sweetened beverage intake and a constellation of cardiometabolic abnormalities in adolescents. *Int J Obes (Lond).* 2021 Jan 20. doi: 10.1038/s41366-021-00745-1.
3. **Lee CH**, Chang K, Chen YM, Tsai JT, Chen YJ\* Ho WH\* Epidemic prediction of dengue fever based on vector compartment model and Markov chain Monte Carlo method. *BMC Bioinformatics.* 2021.
4. Lu TY, Chen JH, Du JK, Lin YC, Ho PS, **Lee CH**, Hu CY, Huang HL\*. Dysphagia and masticatory performance as a mediator of the xerostomia to quality of life relation in the older population. *BMC Geriatr.* 2020 Dec 2;20(1):521.
5. Chin YT, Lin WT, Wu PW, Tsai S, Lee CY, Seal DW, Chen T, Huang HL, **Lee CH**\*. Characteristic-grouped adiposity indicators for identifying metabolic syndrome in adolescents: develop and valid risk screening tools using dual population. *Nutrients.* 2020 Oct 16;12(10):3165.
6. Huang TC, Wu WT, Chen YC, Yang FM, Tsai WC\*, **Lee CH**\*. Betel-quid chewing, heart failure, and premature ventricular contractions in patients with cardiopulmonary symptoms. *Int J Environ Res Public Health.* 2020 Oct 14;17(20):7472.
7. Ko AM, **Lee CH**, Ko AM, Ko YC\*. Betel quid dependence mechanism and potential cessation therapy. *Prog Neuropsychopharmacol Biol Psychiatry.* 2020 Dec 20;103:109982.
8. Hung CC, **Lee CH**, Ko AM, Lane HY, Lee CP, Ko YC\*. Effect of antidepressants for cessation therapy in betel-quid use disorder: a randomised, double-blind, placebo-controlled trial. *Epidemiol Psychiatr Sci.* 2020 May 6;29:e125.
9. Liu CC, Hsieh TJ, Wu CF, **Lee CH**, Tsai YC, Huang TY, Wen SC, Lee CH, Chien TM, Lee YC, Huang SP, Li CC, Chou YH, Wu WJ, Wu MT\*. Interrelationship of environmental melamine exposure, biomarkers of oxidative stress and early kidney injury. *J Hazard Mater.* 2020 Apr 19;396:122726.
10. Ko AM, **Lee CH**, Ko YC\*. Betel quid-associated cancer: Prevention strategies and targeted treatment. *Cancer Lett.* 2020 May 1;477:60-69.
11. Hung CC, **Lee CH**, Chung CM, Nithiyanantham S, Lane HY, Ko YC\*. Antidepressant-induced reduction in betel-quid use in patients with depression: A pioneer clinical study. *Medicine (Baltimore).* 2020 Jan;99(1):e18672.
12. Lin WT, Kao YH, Sothorn MS, Seal DW, **Lee CH**, Lin HY, Chen T, Tseng TS\*. The association between sugar-sweetened beverages intake, body mass index, and inflammation in US adults. *Int J Public Health.* 2020 Jan;65(1):45-53.
13. Chiang SL, Nithiyanantham S, Velmurugan BK, Tu HP, **Lee CH**, Ko YC\*. A haplotype-specific linkage disequilibrium pattern of monoamine oxidase A gene associated with regular smoking in women. *J Gene Med.* 2019 Dec;21(12):e3142.

14. Lee H, Ho PS, Wang WC, Hu CY, **Lee CH**, Huang HL\*. Effectiveness of a health belief model intervention using a lay health advisor strategy on mouth self-examination and cancer screening in remote aboriginal communities: A randomized controlled trial. *Patient Educ Couns*. 2019 Dec;102(12):2263-2269.
15. Lin CC, Shih CT, **Lee CH**, Ku MK, Huang YL. Seroepidemiology of hepatitis B virus infection in native and immigrant pregnant women: a 20-year retrospective study in Taiwan. *Am J Trop Med Hyg*. 2019 Oct;101(4):899-904.
16. Lee HL, Lin YC, Peng WD, Hu CY, **Lee CH**, Hsu YJ, Yen YY, Huang HL\*. Effectiveness of a theory of planned behavior-based intervention for promoting periodontal preventive behaviors among medical students in Taiwan. *J Am Coll Health*. 2019 Jul 9:1-8.
17. Tsou HH, Hu CH, Liu JH, Liu CJ, **Lee CH**, Liu TY, Wang HT\*. Acrolein is involved in the synergistic potential of cigarette smoking- and betel quid chewing-related human oral cancer. *Cancer Epidemiol Biomarkers Prev*. 2019 May;28(5):954-962.
18. Tsou HH, Ko HT, Chen CT, Wang TW, **Lee CH**, Liu TY, Wang HT\*. Betel quid containing safrole enhances metabolic activation of tobacco specific 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK). *Environ Pollut*. 2019 Apr 30;251:13-21.
19. Lin YC, Chang CS, Ho PS, **Lee CH**, Chen JH, Huang HL\*. Immigrant-native differences in sugar-sweetened beverage and snack consumption and preventive behaviors associated with severe early childhood caries: A large-scale survey in Taiwan. *Int J Environ Res Public Health*. 2019 Mar 22;16(6):1047.
20. Lin WT, Lee CY, Tsai S, Huang HL, Wu PW, Chin YT, Seal DW, Chen T, Chao YY, **Lee CH**\*. Clustering of metabolic risk components and associated lifestyle factors: A nationwide adolescent study in Taiwan. *Nutrients*. 2019 Mar 9;11(3):584.
21. Huang HL\*, Peng WD, Lin YC, **Lee CH**, Hu CY, Huang ST. Gender-specific factors associated with the suicidal ideation of children in Taiwan: A large-scale cross-sectional study. *Int J Psychol*. 2019 Feb;54(1):53-60.
22. Chung CM, Hung CC, **Lee CH**, Lee CP, Lee KW, Chen MK, Yeh KT, Ko YC\*. Variants in FAT1 and COL9A1 genes in male population with or without substance use to assess the risk factors for oral malignancy. *PLoS One*. 2019 Jan 18;14(1):e0210901.
23. Lin CC, Shih CT, **Lee CH**, Huang YL\*. Changes in trace elements during early stages of chronic kidney disease in type 2 diabetic patients. *Biol Trace Elem Res*. 2018 Dec;186(2):330-336.
24. Kung WJ, Shih CT, **Lee CH**, Lin CC\*. The divalent elements changes in early stages of chronic kidney disease. *Biol Trace Elem Res*. 2018 Sep;185(1):30-35.
25. Chang HT, Pan HJ\*, **Lee CH**. Prevention of tamoxifen-related nonalcoholic fatty liver disease in breast cancer patients. *Clin Breast Cancer*. 2018 Aug;18(4):e677-e685.
26. Lin WT, Lin PC, Lee CY, Chen YL, Chan TF, Tsai S, Huang HL, Wu PW, Chin YT, Lin HY, **Lee CH**\*. Effects of insulin resistance on the association between the circulating retinol-binding protein 4 level and clustering of pediatric cardiometabolic risk factors. *Pediatr Diabetes*. 2018 Jun;19(4):611-621.
27. Huang MC, Lin KD, Chen HJ, Wu YJ, Chang CI, Shin SJ, Hung HC, **Lee CH**, Huang YF, Hsu CC\*. Validity of a short food frequency questionnaire assessing macronutrient and fiber intakes in patients of Han Chinese descent with type 2 diabetes. *Int J Environ Res Public Health*. 2018 Jun 1;15(6):1142.

28. **Lee CH**, Ko AM, Yang FM, Hung CC, Warnakulasuriya S, Ibrahim SO, Zain RB, Ko YC\*. Association of *DSM-5* betel-quid use disorder with oral potentially malignant disorder in 6 betel-quid endemic Asian populations. *JAMA Psychiatry*. 2018 Mar 1;75(3):261-269.
29. Velmurugan BK, **Lee CH**, Chiang SL, Hua CH, Chen MC, Lin SH, Yeh KT, Ko YC\*. PP2A deactivation is a common event in oral cancer and reactivation by FTY720 shows promising therapeutic potential. *J Cell Physiol*. 2018 Feb;233(2):1300-1311.