

Prof. Ching-Huang Lai

**Email:**

lgh@mail.ndmctsg.h.edu.tw

Personal Website:

<https://www.ndmc.ndmctsg.h.edu.tw/DocDetEn/191/100011/3115/2307>

Education & Training

- Doctor of Philosophy, Department of Epidemiology, Division of Occupational & Environmental Epidemiology, Bloomberg School of Public Health, Johns Hopkins University, U.S.A., (9/1997- 6/2002)
- Visiting Scholar, Department of Environmental Health Sciences, Bloomberg School of Public Health, Johns Hopkins University, U.S.A. (8/2009 – 11/2009)
- Visiting Scholar, Institute of Occupational Environmental Medicine, University of Birmingham, U.K. (3/2006 – 8/2006)
- Visiting Scholar, Department of Public Health, University of Helsinki, Finland (2002.1- 2002.4)

Current & Previous Appointments

- Professor, School of Public Health, National Defense Medical Center, 2012-present
- Dean, Professor, School of Public Health, National Defense Medical Center, 2012-2015

Research interests

- Occupational & Environmental Epidemiology, Exposure Assessment, Environmental monitoring: particulate matter (PM2.5) and polycyclic aromatic hydrocarbons (PAHs) samplings and analyses
- Biomarker of exposure: PAHs and metal pollutants biomonitoring
- Biomarker of effect in oxidative DNA damage (8-hydroxydeoxyguanosine, 8-OHdG), comet assay and lipid peroxidation

Prof. Ching-Huang Lai



Email:

lgh@mail.ndmctsg.h.edu.tw

Personal Website:

<https://www.ndmc.ndmctsg.h.edu.tw/DocDetEn/191/100011/3115/2307>

Selected Research Grant Principle Investigator

- Role of gut microbiome in the association between metal fume particulate matter exposure and cardiovascular effects 2021-2024 (MOST 110-2314-B-016-009; MOST111-2314-B-016 -012 -MY2)
- Role of Advanced glycation End Products in the association between metal fume particulate matter exposure and cardiovascular effects 2018-2021 (MOST107-2314-B-016 -045 -MY3)

Selected Publications

- Lai CH, Ho SC, Pan CH, Chen WL, Wang CC, Liang CW, Chien CY, Riediker M, Chuang KJ, Chuang HC. Chronic exposure to metal fume PM_{2.5} on inflammation and stress hormone cortisol in shipyard workers: A repeat measurement study. *Ecotoxicol Environ Saf.* 2021 Jun 1;215:112144. doi: 10.1016/j.ecoenv.2021.112144. Epub 2021 Mar 17.
- Hsu YT, Su TY, Chen CY, Liao HY, Kuo YC, Wu WT, Li LA, Lai CH, Liou SH. Exposure profiles of workers from indium tin oxide target manufacturing and recycling factories in Taiwan. *Int J Hyg Environ Health.* 2021 Feb 12;233:113708. doi: 10.1016/j.ijheh.2021.113708. (corresponding author)
- Lai CH, Chou CC, Chuang HC, Lin GJ, Pan CH, Chen WL. Receptor for advanced glycation end products in relation to exposure to metal fumes and polycyclic aromatic hydrocarbon in shipyard welders. *Ecotoxicol Environ Saf.* 2020;202:110920. doi:10.1016/j.ecoenv.2020.110920