

Curriculum Vita
Chiung-Yu Peng (彭瓊瑜)

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Education:

National Taiwan University, Taipei, Taiwan. B.S. (Public Health)	1985-1989
National Taiwan University, Taipei, Taiwan. M.S. (Public Health)-Advisor: 林嘉明 Dissertation entitled "室內二氧化氮之測量及其與室外濃度之關係"	1989-1991
University of Michigan, Michigan, U.S.A. Dr. P.H. (Environmental Health Science) -Advisor: Stuart Batterman Dissertation entitled "Identification and quantification of VOC emissions from buildings and heating, ventilating and air conditioning systems."	1991-1998

Academic appointment:

Date	Department	Institution	Title
1998/10~2000/7	Department of Environmental Health Sciences	School of Public Health, University of Michigan	Postdoctoral fellow
2000/8~2005/1	Department of Industrial Safety and Hygiene	Chung Hwa College of Medical Technology	Assistant Professor
2005/2~2009/7	Graduate Institute of Occupational Safety and Health	Kaohsiung Medical University	Assistant Professor
2009/8~2010/7	Division of Environmental Safety, Office of General Affairs	Kaohsiung Medical University	Division Director
2009/8~2011/7	Graduate Institute of Occupational Safety and Health	Kaohsiung Medical University	Associate Professor
2014/8 ~ 2016/7	Division of Teaching Resource, Office of Academic Affairs	Kaohsiung Medical University	Chief
2011/8 ~	Department of Public Health	Kaohsiung Medical University	Associate Professor

Research support:

Year(s)	Funding source	Role	Grant title
2010/08/01~ 2013/07/31	National Science Council, Taiwan (國科會) 99 學年度	PI	Investigation of polycyclic aromatic compounds and aldehydes in cooking oil fumes and study of potential exposure metabolites of these chemicals 油煙中多環芳香碳氫化合物與醛類物質之探討及其相關代謝物之研究 計畫編號: NSC 99 - 2314 - B - 037 - 066 - MY3
2012/08/01~ 2013/07/31	National Science Council, Taiwan (國科會) 101 學年度	Co-PI	氣-液介面暴露評估模式應用於皮膚及呼吸道細胞毒性效應之研究 NSC 101-2221-E-273 -002

2012/05/01 ~ 2012/12/31 \$880,000	行政院勞工委員會勞工安全衛生研究所	Co-PI	多種重金屬暴露勞工流行病學調查 案號：1013038
2013/08/01~ 2014/07/31	National Science Council, Taiwan (國科會) 102 學年度	PI	氣-液界面暴露評估系統應用於呼吸道細胞暴露於烹調油煙與其組成之毒性探討研究 NSC 102-2314-B-037 -046
2013/06/01~ 2013/12/20	行政院勞工委員會勞工安全衛生研究所	Co-PI	廚師暴露烹飪油煙罹患肺腺癌風險評估
2014/06/01~ 2014/12/20	行政院勞動部勞動及職業安全衛生研究所(Institute of Labor, Occupational Safety And Health, Ministry of Labor)	Co-PI	廚師暴露烹飪油煙罹患肺癌風險評估
2014/08/01~ 2015/07/31	科技部(原國科會) 103 學年度 Ministry of Science and Technology	PI	氣-液界面暴露評估系統應用於呼吸道細胞暴露於烹調油煙與其組成之毒性探討研究 II MOST103-2314-B-037-020
2014/08/01~ 2015/07/31	頂尖計畫(高醫)	PI	平台一：環境暴露體分析平台 KMU-TP103A27
2015/10/01~ 2016/9/31	頂尖計畫(高醫)	PI	環境暴露體平台 KMU-TP104A19
2015/12/01~ 2016/02/29	中國鋼鐵(股)公司	PI	中國鋼鐵(股)公司-冷軋軋輓課(Y515)與熱軋軋輓課(Y415)勞工作業環境採樣分析 S-S104010
2015/08/01~ 2017/07/31	科技部	Co-PI	三聚氰胺暴露與腎臟傷害之轉譯醫學研究(104-2314-B-037-012-MY2)
2016/08/01~ 2017/07/31	科技部	PI	建立與評估皮膚暴露於不同種類化學物之除污方法 (MOST105-2314-B-037-023)
2018/1/1-12/31	國家衛生研究院	PI	加工肉品之醛類濃度分布探討 (NHRI-107A1-EMCO-0318187)
2018/1/1-12/31	高雄市立小港醫院	PI	大林蒲學童揮發性有機物與多環芳香煙之暴露評估-空氣清淨機介入研究 (K-1900-1)

Publications:

1. **Chung-Yu Peng***, Sheng-Ling Hsiao, Cheng-Hang Lan, & Yu-Li Huang (2013). Application of passive sampling on assessment of concentration distribution and health risk of volatile organic compounds at a high-tech science park. *Environ Monit Assess* 185, 181-196. (SCI, 2010 IF:1.436, Ranking:106/192=55.2% in Environmental sciences, 2011 IF=1.400; R/C=118/205, Environmental sciences) (2012 IF=1.592; R/C=117/210, 2014 IF=1.679; R/C=110/221=49.8%, 2015 IF= 1.633, R/C=117/225=52%, Environmental sciences)
2. Cheng-Hang Lan, Yu-Li Huang, Sheng-Huei Ho, **Chung-Yu Peng*** (2014). Volatile organic compound identification and characterization by PCA and mapping at a high-technology science park. *Environ. Pollut.* 193, 156 – 164 (2013 IF=3.902, R/C=22/215; 2014 IF=4.143, R/C = 17/221=7.7%, 2015 IF=4,839, R/C=17/225 = 7.6%, Environmental sciences)
3. Chien-Hung Lee, **Chung-Yu Peng**, Ruei-Nian Li, Yu-Chieh Chen, Hsiu-Ting Tsai, Yu-Hsiu Hung, Te-Fu Chan, Hsiao-Ling Huang, Tai-Cheng Lai, Ming-Tsang Wu* (2015). Risk evaluation for the development of cervical intraepithelial neoplasia: Development and validation of risk-scoring schemes. *Int. J. Cancer* 136, 340–349. (2014 IF= 5.085; R/C= 31/211, 2014 IF= 5.085; R/C= 31/211=14.7%, 2015 IF = 5.531, R/C =29/213 =

13.6%, Oncology)

4. Chia-Fang Wu, **Chiung-Yu Peng**, Chia-Chu Liu, Wen-Yi Lin, Chih-Hong Pan, Ching-Mei Cheng, Hui-Min Hsieh, Tusty-Jiuan Hsieh, Bai-Hsiun Chen, Ming-Tsang Wu* (2015). Ambient melamine exposure and urinary biomarkers of early renal injury. *J. Am. Soc. Nephrol.* 26, 2821–2829. (2014 IF=9.343; R/C= 3/76=3.9%, 2015 IF= 8.491, R/C = 3/77= 3.9%, Urology & nephrology)
5. Hung-Hsin Liu, Chang-Yuh Chen, Cheng-Hang Lan, Cheng-Ping Chang, **Chiung-Yu Peng*** (2016). Effects of a powered air-purifying respirator intervention on indium exposure reduction and indium related biomarkers among ITO sputter target manufacturing workers. *J Occup Environ Hyg* 13(5): 346-355. (2015 IF=1.155, R/C=163/225=72.4%, Environmental Sciences)
6. **Chiung-Yu Peng***, Cheng-Hang Lan, Pei-Chen Lin, Yi-Chun Kuo (2017) Effects of cooking method, cooking oil, and food type on aldehyde emissions in cooking oil fumes. *J. Hazard. Mater.* 324(Pt B): 160–167 (2015 IF= 4.836, R/C = 2/126 = 1.6%, 2016 IF=6.065, R/C=1/125=0.8%, Civil Engineering)
7. Jo-Hui Pan*, **Chiung-Yu Peng**, Chung-Ting Lo, Chia-Yen Dai, Chao-Ling Wang, Hung-Yi Chuang (2017) n-Hexane intoxication in a Chinese medicine pharmaceutical plant: a case report. *Journal of Medical Case Reports.* 11:120, DOI 10.1186/s13256-017-1280-9.
8. Ruei-Nian Li, Chien-Yu Li, Chien-Hung Lee, **Chiung-Yu Peng**, Ming-Tsang Wu* (2017) Promoter methylation status of the tumor suppressor genes p16 and cadherin 1 in cervical intraepithelial neoplasia. *Oncology Letters.* 13: 4397-4401, DOI 10.3892/ol.2017.5975 (2016 IF=1.39, R/C=192/217=88.5%, Oncology)

Symposium presentation:

1. Hsiao, S.L., Peng, C.Y., Lin, W.I., 2013. Workplace sampling for workers with multiple heavy metal exposure. ACCMES'2013, Asian Conference on Civil, Material and Environmental Sciences, 15-17 March 2013 Tokyo, Japan.
2. Hsiao, W.-H., Peng, C.-Y., 2013. VOC exposure of elementary children in an industry city. ACCMES'2013, Asian Conference on Civil, Material and Environmental Sciences, 15-17 March 2013, Tokyo, Japan.
3. Kuo, Y.-C., Peng, C.-Y., 2013. Investigation on aldehyde concentration distribution in the cooking oil fumes. ACCMES'2013, Asian Conference on Civil, Material and Environmental Sciences, 15-17 March 2013, Tokyo, Japan.
4. Wu, T.-C., Peng, C.-Y., Lan, C.-H., 2013. Development of Air-Liquid interface exposure system for evaluating air pollutant toxicity. ACCMES'2013, Asian Conference on Civil, Material and Environmental Sciences, 15-17 March 2013, Tokyo, Japan.
5. Peng, Chiung-Yu, Kuo, Yi-Chun, 2013. Investigation of concentration distribution and health risks of aldehydes from cooking oil fumes. ICT, 2013, The XIII International Congress of Toxicology, June 30-July 4, 2013, Seoul, Korea.
6. 林冠文、**彭瓊瑜**， Investigation of polycyclic aromatic hydrocarbons (PAHs) concentration in the cooking oil fumes，2014 職業衛生研討會，台灣大學 公共衛生學院，2014 年 3 月 6~7 日。
7. 黃薇潔、伍德成、**彭瓊瑜**， Investigation of toxic effects of human lung cell exposure to formaldehyde by using submerged and air-liquid interface systems，2014 職業衛生研討會，台灣大學 公共衛生學院，2014 年 3 月 6~7 日。
8. Chiung-Yu Peng*, Wei-Jie Huang, Te-Cheng Wu, Kuan-Wen Lin. Estimation of cancer risks of chefs exposed to polycyclic aromatic compounds and aldehydes in cooking oil fumes, The International Society of Exposure Science (ISES 2014), Oct. 12~16, 2014, Cincinnati, Ohio, USA.
9. Yu-Ying Hung, Wen-Yi Lin, Chiung-Yu Peng. Characterization of metal exposure of shipbuilding workers, 2015 Conference on Industrial Hygiene and Occupational Medicine, Kaohsiung Medical University, Apr. 25~26, 2015,

Kaohsiung, Taiwan

10. 邱子胤、葉怡亨、陳冠甫、彭瓊瑜 Establishment and evaluation of decontamination protocols of chemical exposure, 2016 職業衛生研討會暨第七屆海峽兩岸職業衛生學術交流會, 台南市 中華醫事科技大學, 2016 年 3 月 2~4 日。
11. 陳英智、彭瓊瑜 Assessment of the biological effects of human lung cells exposed to formaldehyde in two in vitro exposure models, 2016 職業衛生研討會暨第七屆海峽兩岸職業衛生學術交流會, 台南市 中華醫事科技大學, 2016 年 3 月 2~4 日。
12. 伍德成、彭瓊瑜 Implementation of an air-liquid exposure system for formaldehyde toxic effects on human lung adenocarcinoma cell line, 2016 職業衛生研討會暨第七屆海峽兩岸職業衛生學術交流會, 台南市 中華醫事科技大學, 2016 年 3 月 2~4 日。
13. 林子翔、彭瓊瑜 The effects of an air curtain device on air pollutants of kitchens and biological markers of chefs, 2016 職業衛生研討會暨第七屆海峽兩岸職業衛生學術交流會, 台南市 中華醫事科技大學, 2016 年 3 月 2~4 日。
14. 陳傑琮、邱佳慧、劉宏信*、蔡宗穎、陳成裕、彭瓊瑜 金屬煉煙暴露勞工健康危害評估, 2016 職業衛生研討會暨第七屆海峽兩岸職業衛生學術交流會, 台南市 中華醫事科技大學, 2016 年 3 月 2~4 日。
15. 柴培睿、彭瓊瑜 某造船業勞工生物暴露與生物效應指標之特徵探討, 2016 職業衛生研討會暨第七屆海峽兩岸職業衛生學術交流會, 台南市 中華醫事科技大學, 2016 年 3 月 2~4 日。
16. 吳欣育、彭瓊瑜 烹飪油煙對於餐飲業勞工 PAHs 暴露與尿液中氧化傷害指標濃度分布探討, 2016 職業衛生研討會暨第七屆海峽兩岸職業衛生學術交流會, 台南市 中華醫事科技大學, 2016 年 3 月 2~4 日。
17. Guan-Fu Chen, Chiung-Yu Peng. The effect of contact time on skin decontamination efficacy and secondary exposure risk – methyl salicylate exposure. The 22nd Asian Conference on Occupational Health, Apr. 27~30, 2017, Kaohsiung, Taiwan.
18. Jian-Kai You, Chiung-Yu Peng. Effects of cooking oil, cooking method and food type on PAHs. The 22nd Asian Conference on Occupational Health, Apr. 27~30, 2017, Kaohsiung, Taiwan.

Professional Experience

- 1992/1 ~ 1996/9 Research assistant, Department of Environmental and Industrial Health, University of Michigan
Worked on a project “Pollution Sources in Heating, Ventilation and Air-Conditioning (HVAC) System: Identification and Quantification of Sources” founded by ASHRAE. The tasks include designing and implementing sampling strategy, conducting pollutant analysis, data interpretation and formulating the report.
- 1996/12 ~ 1997/8 Graduate Research Assistant, Department of Environmental and Industrial Health, University of Michigan
Worked on a project “Application of High Speed Gas Chromatography (HSGC) in Indoor Air”. This work tried to analyze indoor volatile organic compounds using HSGC. The tasks include selection of challenge compounds, determination of concentration levels, design of sample introduce system, and formulation of research report.
Worked on a project “Sampling of Microbial VOCs Using High Speed Gas Chromatograph Including Development of a Sorbent Preconcentrating System”. The major tasks were to setup the test method and assist in the supervision and guide other research personnel.
- 1998/12 ~ 2000/6 Research fellow, Department of Environmental and industrial Health, University of Michigan.
Worked on project “Exposure to Urban Air Toxics Exposure during Commuting”. The tasks include development of analytical method, preparation of sampling media and data analysis.

Worked on project “Implication of Automated Short Path Thermal Desorption System in Indoor Air Study”. The tasks include selection of appropriate adsorbents, determination of optimal analysis parameters, and employment of field study. The applicability of this system in indoor air will be evaluated based on field study results.

- 2000/8 ~ 2004/1 Assistant professor, Department of Industrial Safety and Hygiene, Chung Hwa College of Medical Technology, Taiwan. Taught several courses including workplace monitoring, hazardous material management, introduction of occupational health, instrumental analysis, and epidemiology. Also worked on a couple of projects including “A Study for Worker Exposure in Cross Draft With an Exterior Hood”, and “Investigation of Temporal and Spatial variations of nitrogen dioxide in Tainan”. The tasks include developing sampling strategies, determining analysis methods, scheduling project progress, and interpreting data.
- 2004/1 ~ 2009/8 Assistant professor, Graduate Institute of Occupational Safety and Health, Kaohsiung Medical University, Taiwan. Taught several courses including workplace monitoring, exposure assessment, environmental science, instrumental analysis, and workplace regulations. Also worked on a few of projects including “Investigation and characterization of emissions and biotoxicity of exhaust from power generators fueled with biodiesels”, “Investigation of volatile organic compound spatial and temporal variation in science-based industry park”, and “Molecular Epidemiology and Biology of Cervical Neoplasm”.
- 2009/8~ 2010/7 Director of Environmental Safety Division, Office of General Affairs, Kaohsiung Medical University, Taiwan, was in charge of supervising, coordinating and planning the laboratory safety issues and events. Specific programs and activities designed and implemented during this period included on-line lab safety education training program, laboratory safety self examination program, chemical spill response drill, and model laboratory display activity.
- 2009/9 ~ present Associate professor, Department of Public Health, Kaohsiung Medical University, Taiwan. Taught several courses including workplace monitoring, exposure assessment, environmental science, instrumental analysis, and workplace regulations. Continued working on the projects “Molecular Epidemiology and Biology of Cervical Neoplasm” and “Characterization of emissions of exhaust from power generators fueled with biodiesels”. Also worked on new projects, such as “Characterization of cooking oil fumes (COFs) and study of potential exposure metabolites of COFs” and, “Study of the relationship between air pollution and resident health in Kaohsiung city”.