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Education

Sc.D. Department of Environmental Health, Harvard School of Public Health, Boston, USA, 1993-1997

M.O.H. Department of Environmental Health, Harvard School of Public Health, Boston, USA, 1992-1993

M.D. Department of Medicine, Chung Shan Medical & Dental College, Taichung, Taiwan, 1980-1987

Professional Experience

2007~ Professor, Department of Public Health, College of Health Sciences, Kaohsiung Medical University, Kaohsiung, Taiwan

2007~ Attending physician, Department of Family Medicine, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan

2008~ Visiting scientist, Department of Environmental & Occupational Medicine, Harvard School of Public Health, Boston, USA

2010~ Director, Center of Environmental & Occupational Medicine, Kaohsiung Municipal Hsiao-Kang Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan

2015~ Director, Graduate Institute of Clinical Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

2015~ Director, Research Center of Environmental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

Specialty

Molecular Epidemiology, Translational Medicine, Occupational & Environmental Medicine, Community Medicine

Publication (Selected papers from 2010~ *Corresponding author)

1. Wu CF, Liu CC, Chen BH, Huang SP, Lee HH, Chou YH, Wu WJ, **Wu MT***:

Urinary melamine and adult urolithiasis in Taiwan. *Clin Chim Acta*. 411: 184-189, 2010 (Correspondent).

2. Lee CH, Yang SF, Peng CY, Li RN, Chen YC, Chan TF, Tsai EM, Kuo FC, Huang JJ, Tsai HT, Hung YH, Huang HL, Tsai S, **Wu MT***: The precancerous effect of emitted coking oil fumes on precursor lesions of cervical cancer. *Int J Cancer* 2010 Aug 15;127(4):932-41. (Correspondent).

3. Chen YK, Chang WS, Wu IC, Li LH, Yang SF, Chen YF, Hsu MC, Chen SH, Wu DC, Lee JM, Huang CH, Goan YG, Chou SH, Huang CT, **Wu MT***: Molecular characterization of invasive subpopulations from an esophageal squamous cell carcinoma cell line. *Anticancer Res* 2010 Mar;30(3):727-36. (Correspondent).

4. Wu IC, Wu DC, Huang CH, Lin HS, Chen **YK**, Tsai HJ, Lu CY, Chou SH, Chou YP, Li LH, Tsai SY, **Wu MT***: Plasma decorin predicts the presence of esophageal squamous cell carcinoma. *Int J Cancer* 127: 2138-2146, 2010 (Correspondent) (DOH grant no. 778-8876-768, NSC 798797709, NSC 98-2314-B-037-004-MY2, KMUH97-7R31, and KMU Center of Excellence for Environmental Medicine).

5. Wu CF, Feng NH, Chong IW, Wu KY, Lee CH, Hwang JJ, Huang CT, Lee CY, Chao ST, Christiani DC, **Wu MT***: Second-hand smoke and chronic bronchitis in Taiwanese women: A health-care based study. *BMC Public Health* 10(1):44, 2010 (Correspondent) (NSC 95-2314-B-037-109-MY3; KMU-EM-97-1.2a; KMUH 98-8R05; Kaohsiung Armed Forces General Hospital 9703)

6. Tsai SY, Wu IC, Wu DC, Su HJ, Huang JL, Tsai HJ, Lu CY, Lee JM, **Wu MT***: Cigarette smoking and alcohol drinking related to the risk of esophageal squamous cell carcinoma in Taiwanese women. *World J Gastroenterol* 2010 Mar 28;16(12):1518-21. (Correspondent) (KMUH96-6G04; NSC 98-2918-I-037-001-).

7. Liu CC, Huang SP, Tsai LY, Wu WJ, Juo SH, Chou YH, Huang CH, **Wu MT***: The impact of osteopontin promoter polymorphisms on the risk of calcium urolithiasis. *Clin Chim Acta* 2010 May 2;411(9-10):739-43. (Correspondent) (NSC 97-2314-B-037-32; NSC 98-2314-B-037-030-MY3; KMUH-95-5D41; KMUH97-7R22; KMUH98-8R10).

8. Jeng HA, Diawara N, Pan CH, Chang-Chien GP, **Wu MT***: Polycyclic aromatic hydrocarbons-induced oxidative stress and lipid peroxidation in relation to immunological alteration. *Occup Environ Med* 68(9):653-8, 2011 (Correspondent).

9. Chien CY, Wu CF, Liu CC, Chen BH, Huang SP, Chou YH, Chang AW, Lee HH, Pan CH, Wu WJ, Shen JT, Chang MY, Huang CH, Shiea J, Hsieh TJ, **Wu MT***: High Melamine Migration in Daily-use Melamine-made Tableware. *J Hazard Mater* 188: 350-356, 2011 (Correspondent) (**ENGINEERING, CIVIL, 1/106; IF: 4.144**).

10. Liu CC (equal contribution), Wu CF (equal contribution), Chen BH, Huang SP, Goggins W, Lee HH, Chou YH, Wu WJ, Huang CH, Shiea J, Lee CH, Wu KY, **Wu MT***: Low exposure to melamine increases the risk of urolithiasis in adults. *Kidney Int*. 2011 Oct;80(7):746-52. doi: 10.1038/ki.2011.154. Epub 2011 Jun 1. (**UROLOGY & NEPHROLOGY, 3/63; IF: 6.193**) (Correspondent)

11. Jeng HA, Pan CH, Kao CY, Kuo HW, Chang-Chien GP, Su HJ, Huang JL, Diawara N, Liu SH, Peng CY, **Wu MT***: Repeated measurements for assessment of urinary 2-naphthol levels in individuals exposed to polycyclic aromatic hydrocarbons. *J Environ Sci Health A Tox Hazard Subst Environ Eng.* 46(8):865-73, 2011 (Correspondent).

12. **Wu MT*** (equal contribution), Lee TC (equal contribution), Su HJ, Huang JL, Peng CY, Wang W, Chou TY, Lin MY, Lin WY, Huang CT, Pan CH, Ho CK*: Whole genome expression in peripheral-blood samples of workers professionally exposed to polycyclic aromatic hydrocarbons. *Chem Res Toxicol* 2011 Oct 17;24(10):1636-43. (IF: 4.148) (IOSH99-M303), NSC97-2314-B-037-MY3, DOH778-8876-768), KMUO-O100001, and NIH 2 R01 ES011297-06).

13. Lin MY*, Chen MC, Wu IC, Wu DC, Cheng YJ, Wu CC, Chai CY, Lee JM, **Wu MT***: Areca users in combination with tobacco and alcohol use are associated with younger age of diagnosed esophageal cancer in Taiwanese men. *PLoS ONE* 6(10):e25347, 2011.

14. Lin PC, Chen CH, Pan SM, Pan CH, Chen CJ, Chen YM, Hung HC*, **Wu MT***: Atypical work schedules are associated with poor sleep quality and mental health in Taiwan female nurses. *Int Arch Occup Environ Health* 85(8):877-84, 2012.

15. Liu CC, Wu CF, **Wu MT***: Reappraisal of melamine exposure and adult calcium urolithiasis. *Kidney Int [Letter]* 82(3):361-2, 2012.

16. **Wu MT***, Wu CF, Wu **JR**, Chen BH, Chen EK, Chao MC, Liu CK, Ho CK*: The public health threat of phthalate-tainted foodstuffs in Taiwan: the policies the government implemented and the lessons we learned. *Environ Int* 44: 75-79, 2012.

17. Huang SH, Wu IC, Wu DC, Wu CC, Yang JF, Chen **YK**, Chai CY, Chiu YW, Huang CT, **Wu MT***: Occupational risks of esophageal cancer in Taiwanese men. *Kaohsiung J Med Sci* 2012 Dec;28(12):654-9.

18. Liu CC (equal contribution), Wu CF (equal contribution), Shiea J, Cho YT, Hsieh TJ, Chou YH, Chen BH, Huang SP, Wu WJ, Shen JT, Chang MY, Huang CH, Chang AW, **Wu MT***: Detection of Melamine in a Human Renal Uric Acid Stone by Matrix-Assisted Laser Desorption / Ionization Time-Of-Flight Mass Spectrometry (MALDI-TOF MS). *Clin Chim Acta* 413(19-20): 1689-1695, 2012. (correspondent).

147. Hsieh TJ, Hsieh PC, Tsai YH, Wu CF, Liu CC, Lin MY, **Wu MT***: Melamine induces human renal proximal tubular cell injury via transforming growth factor-beta and oxidative stress. *Toxicol Sci* 2012 Nov;130(1):17-32 (correspondent).

19. Wu CF, Hsieh TJ, Chen BH, Liu CC, **Wu MT***: A crossover study of noodle soup consumption in melamine bowls and total melamine excretion in urine. *JAMA Intern Med.* 2013 Feb 25;173(4):317-9. (correspondent).

20. Lin YT (equal contribution), Tsai MT (equal contribution), Chen YL, Cheng CM, Huang CC, Wu CF, Liu CC, Hsieh TJ, Shiea J, Chen BH, **Wu MT***: Can

melamine levels in one-spot overnight urine specimen predict the total previous 24-hours melamine excretion in school children? *Clin Chim Acta* 420: 128–133, 2013. (correspondent).

21. **Wu MT***, Wu CF, Chen BH, Chen EK, Chen YL, Shiea J, Lee WT, Chao MC, Wu JR*: Intake of phthalate-tainted foods alters thyroid functions in Taiwanese children. *PLoS One* 2013;8(1):e55212. (NSC 100-3114-Y-043-005, KMUH100-0R55, and KMUH101-1I04).

22. Wu IC, Wu CC, Lu CY, Hsu WH, Wu MC, Lee JY, Chou SH, Lee JM, Chou YP, Wu DC, **Wu MT***. Substance use (alcohol, areca nut and cigarette) is associated with poor prognosis of esophageal squamous cell carcinoma. *PLoS One*. 2013;8(2):e55834.

23. Wu CF, Chen BH, Shiea J, Chen EK, Liu CK, Chao MC, Ho CK, Wu JR, **Wu MT***: Temporal changes of urinary oxidative metabolites of di(2-ethylhexyl)phthalate after the 2011 phthalate incident in Taiwanese children-Findings of a 6-month follow-up. *Environ Sci Technol*. 47(23):13754-62, 2013.

24. Wu CF, Liu CC, Chou YH, Shiea J, Shen JT, Wang HS, **Wu MT***: Increased detection rate of melamine-containing calcium urolithiasis by using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry technique in clinical practice. *Clin Chim Acta* 431: 294-298, 2014.

25. Wu CF, Chang-Chien GP, Su SW, Chen BH, **Wu MT***: Findings of 2,731 suspected phthalate-tainted foodstuffs during the 2011 phthalate incident in Taiwan. *J Formos Med Assoc* 113: 600-605, 2014.

26. Tai SY, Lin PC, Chen YM, Hung HC, Pan CH, Pan SM, Lee CY, Huang CT, **Wu MT***: Effects of marital status and shift work on family function among registered nurses. *Ind Health* 52(4):296-303, 2014.

27. Wu IC, MD, Lin MY, Yu FJ, Hsieh HM, Chiu KF, **Wu MT***: A short-term effect of low-dose aspirin on major hemorrhagic risks in primary prevention: A case-crossover design. *PLoS One* 9(5):e98326, 2014.

28. Lee CH, Peng CY, Li RN, Chen YC, Tsia HT, Hung YH, Chan TF, Huang HL, Lai TC, **Wu MT***: Risk evaluation for the development of cervical intraepithelial neoplasia: Development and validation of risk-scoring schemes. *Int J Cancer* 136(2):340-9, 2015.

29. Lin PC, Chen CH, Pan SM, Chen YM, Pan CH, Hung HC,* **Wu MT***: The association between rotation shift work and increased occupational stress in nurses. *J Occup Health* 52: 296-303, 2014.

30. Wu IC, Hsieh HM, **Wu MT***. A short-term risk-benefit analysis of occasional and regular use of low-dose aspirin in primary prevention of vascular diseases: A nationwide population-based study. *BMJ Open* 2015;5(1):e006694.

31. Wu WC, Lin PC, Hung CC, Lin HH, Cheng CM, Lee CY, Chiu KF, Lin WY, Huang CT, **Wu MT***. Clinical risk factors of pre-diabetes in Taiwanese women without substance uses (tobacco, alcohol, or areca nut). *J Formos Med Assoc* (in press).

32. Wu CF, Peng CY, Liu CC, Lin WY, Pan CH, Cheng CM, Hsieh HM, Hsieh TJ, Chen BH, **Wu MT***. Ambient melamine exposure and urinary biomarkers of early renal injury. JASN (in press) (Impact factor: 9.343; Renal & Urology: 3/76)

33. Liu CC, Hsieh HM, Wu CF, Hsieh TJ, Huang SP, Chou YH, Huang CN, Wu WJ, **Wu MT***: Long-term prescription of α -blockers decrease the risk of recurrent urolithiasis needed for surgical intervention-a nationwide population-based study. PLoS One 2015 Apr 13;10(4):e0122494.

37. **Wu MT***, Wu CF, Chen BH: Behavioral intervention decreases daily melamine exposure from melamine tableware. Environ Sci Technol. 2015 Aug 18;49(16):9964-70. (Impact factor: 5.330; Ranking: 10/221 = 0.045; **subject categories ENVIRONMENTAL SCIENCES**)