

Shu-Chun Chuang, PhD

Assistant Investigator

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scchuang@nhri.org.tw**Education**

- 2000
B.S. in Public Health,
National Taiwan University, Taiwan
- 2003
M.S. in Epidemiology,
UCLA School of Public Health, Department of Epidemiology, USA
- 2007
Ph.D. in Epidemiology,
UCLA School of Public Health, Department of Epidemiology, USA

Professional Experiences

- 2012/10-present
Institute of Population Health Sciences, National Health Research
Institutes, Taiwan
Assistant Investigator
- 2009/12-2012/08
Imperial College London, Dept Epidemiology and Biostatistics,
London, UK
Research Fellow
- 2007/07-2009/11
International Agency for Research on Cancer (IARC), Lifestyle,
Environment and Cancer Group (LCA), Lyon, France
Postdoctoral Fellow

Research Interests

Dr. Chuang has been trained as an epidemiologist, with a focus in cancer and molecular epidemiology. Dr. Chuang is currently working on various lifestyle factors, e.g. diet/nutrition, physical activity, sleep and geriatric outcomes in the Health Aging Longitudinal Study in Taiwan (HALST). In addition, she also works on the safety of pregnancy in breast cancer patients.

Research Activities & Accomplishment

National Health Research Institutes-Institutional Repository:

<http://ir.nhri.org.tw/handle/3990099045/7332>**AWARDS**

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| 04/09 | AACR-Pezcoller Foundation Scholar-in-Training Award,
American Association for Cancer Research 100 th annual
meeting |
| 07/07-11/09 | Special Postdoctoral Training Award, International Agency
for Research on Cancer (IARC), Lifestyle, Environment and Cancer
Group (GEE) |

03/07 ASPO New Investigator's Award, American Society of Preventive Oncology, 31st Annual Meeting

07/06-09/06 Special Research Trainee Award, Gene-Environment Epidemiology (GEE) Group, International Agency for Research on Cancer (IARC)

09/04-03/07 UCLA continuing student fellowship

Selected Publications

Chuang SC, Chen HC, Sun CW, Chen YA, Wang YH, Chiang CJ, Chen CC, Wang SL, Chen CJ, Hsiung CA. Phthalate exposure and prostate cancer in a population-based nested case-control study. *Environ Res.* 2020 Feb;181:108902.

Chuang SC, Lin CH, Lu YS, Hsiung CA. Mortality of pregnancy following breast cancer diagnoses in Taiwanese women. *Oncologist* 2020 Feb;25(2):e252-e258

Chuang SC, Lin CH, Lu YS, Hsiung CA*. Association of pregnancy and mortality in women diagnosed with breast cancer: A Nationwide Population Based Study in Taiwan. *Int J Cancer.* 2018 Nov 15;143(10):2416-2424. PMID:30070358

Chuang SC, Chen HL, Tseng WT, Wu IC, Hsu CC, Chang HY, Chen YI, Lee MM, Liu K, Hsiung CA. Circulating 25-hydroxyvitamin D and physical performance in older adults: a nationwide study in Taiwan. *Am J Clin Nutr.* 2016 Oct 12. PMID: 27733394

Chuang SC, Boeing H, Vollset SE, Midttun Ø, Ueland PM, Bueno-de-Mesquita B, Lajous M, Fagherazzi G, Boutron-Ruault MC, Kaaks R, Kühn T, Pischon T, Drogan D, Tjønneland A, Overvad K, Quirós JR, Agudo A, Molina-Montes E, Dorronsoro M, Huerta JM, Barricarte A, Khaw KT, Wareham NJ, Travis RC, Trichopoulou A, Lagiou P, Trichopoulos D, Masala G, Agnoli C, Tumino R, Mattiello A, Peeters PH, Weiderpass E, Palmqvist R, Ljuslinder I, Gunter M, Lu Y, Cross AJ, Riboli E, Vineis P, Aleksandrova K. Cellular immune activity biomarker neopterin is associated with hyperlipidemia: results from a large population-based study. *Immun Ageing.* 2016 Feb 25;13:5. PMID: 26918023

Chuang SC, Wu GJ, Lu YS, Lin CH, Hsiung CA. Associations between Medical Conditions and Breast Cancer Risk in Asians: A Nationwide Population-Based Study in Taiwan. *PLoS One.* 2015 Nov 25;10(11):e0143410. PMID:

26605792

Chuang SC, Lee YC, Wu GJ, Straif K, Hashibe M. Alcohol consumption and liver cancer risk: a meta-analysis. *Cancer Causes Control*. 2015 Sep;26(9):1205-31. PMID: 26134046

Chuang SC, Fanidi A, Ueland PM, Relton C, Middtun O, Vollset SE, Gunter MJ, Seckl MJ, Travis RC, Wareham N, Trichopoulou A, Lagiou P, Trichopoulos D, Peeters PH, Bas Bueno-de-Mesquita H, Boeing H, Wientzek A, Kuehn T, Kaaks R, Tumino R, Agnoli C, Palli D, Naccarati A, Aicua EA, Sánchez MJ, Quirós JR, Chirlaque MD, Agudo A, Johansson M, Grankvist K, Boutron-Ruault MC, Clavel-Chapelon F, Fagherazzi G, Weiderpass E, Riboli E, Brennan PJ, Vineis P, Johansson M. Circulating Biomarkers of Tryptophan and the Kynurenine Pathway and Lung Cancer Risk. *Cancer Epidemiol Biomarkers Prev*. 2014 Mar;23(3):461-8 PMID: 24357106

Chuang SC, Rota M, Gunter MJ, Zeleniuch-Jacquotte A, Eussen SJ, Vollset SE, Ueland PM, Norat T, Ziegler RG, Vineis P. Quantifying the dose-response relationship between circulating folate concentrations and colorectal cancer in cohort studies: a meta-analysis based on a flexible meta-regression model. *Am J Epidemiol*. 2013 Oct 1;178(7):1028-37 PMID: 23863758

Chuang SC, Norat T, Murphy N, Olsen A, Tjønneland A, Overvad K, Boutron-Ruault MC, Perquier F, Dartois L, Kaaks R, Teucher B, Bergmann MM, Boeing H, Trichopoulou A, Lagiou P, Trichopoulos D, Grioni S, Sacerdote C, Panico S, Palli D, Tumino R, Peeters PH, Bueno-de-Mesquita B, Ros MM, Brustad M, Åsli LA, Skeie G, Quirós JR, González CA, Sánchez MJ, Navarro C, Ardanaz Aicua E, Dorronsoro M, Drake I, Sonestedt E, Johansson I, Hallmans G, Key T, Crowe F, Khaw KT, Wareham N, Ferrari P, Slimani N, Romieu I, Gallo V, Riboli E, Vineis P. Fiber intake and total and cause-specific mortality in the European Prospective Investigation into Cancer and Nutrition cohort. *Am J Clin Nutr*. 2012 Jul;96(1):164-74 PMID:22648726

Accompanied by an editorial: Landberg R. Dietary fiber and mortality: convincing observations that call for mechanistic investigations. *Am J Clin Nutr*. 2012 Jul;96(1):3-4 PMID: 22673120

Chuang SC, Jenab M, Heck JE, Bosetti C, Talamini R, Matsuo K, Castellsague X, Franceschi S, Herrero R, Winn DM, La Vecchia C, Morgenstern H, Zhang ZF, Levi F, Dal Maso L, Kelsey K, McClean MD, Vaughan T, Lazarus P, Muscat J, Ramroth H, Chen C, Schwartz SM, Eluf-Neto J, Hayes RB, Purdue M, Boccia S, Cadoni G, Zaridze D, Koifman S, Curado MP, Ahrens W, Benhamou S, Matos E, Lagiou P, Szeszenia-Dabrowska N, Olshan AF, Fernandez L, Menezes A, Agudo A, Daudt AW, Merletti F, Macfarlane GJ, Kjaerheim K,

Mates D, Holcatova I, Schantz S, Yu GP, Simonato L, Brenner H, Mueller H, Conway DI, Thomson P, Fabianova E, Znaor A, Rudnai P, Healy CM, Ferro G, Brennan P, Boffetta P, Hashibe M. Diet and the Risk of Head and Neck Cancer: A Pooled Analysis in the INHANCE Consortium. *Cancer Causes and Control* 2012 Jan;23(1):69-88 PMID: 22021666

Chuang SC, Vermeulen R, Sharabiani MT, Sacerdote C, Fatemeh SH, Berrino F, Krogh V, Palli D, Panico S, Tumino R, Athersuch TJ, Vineis P. The intake of grain fibers modulates cytokine levels in blood. *Biomarkers*. 2011 Sep;16(6):504-10. PMID: 21812595

Chuang SC, Agudo A, Ahrens W, Anantharaman D, Benhamou S, Boccia S, Chen C, Conway DI, Fabianova E, Hayes RB, Healy CM, Holcatova I, Kjaerheim K, Lagiou P, Lazarus P, Macfarlane TV, Mahimkar MB, Mates D, Matsuo K, Merletti F, Metspalu A, Morgenstern H, Muscat J, Cadoni G, Olshan AF, Purdue M, Ramroth H, Rudnai P, Schwartz SM, Simonato L, Smith EM, Sturgis EM, Szeszenia-Dabrowska N, Talamini R, Thomson P, Wei Q, Zaridze D, Zhang ZF, Znaor A, Brennan P, Boffetta P, Hashibe M. Sequence variants and the risk of head and neck cancer: pooled analysis in the INHANCE consortium. *Frontiers in Oncology*. 2011 1:1-15

Chuang SC, Stolzenberg-Solomon R, Ueland PM, Vollset SE, Middtun O, Olsen A, Tjønneland A, Overvad K, Boutron-Ruault MC, Morois S, Clavel-Chapelon F, Teucher B, Kaaks R, Weikert C, Boeing H, Trichopoulou A, Benetou V, Naska A, Jenab M, Slimani N, Romieu I, Michaud DS, Palli D, Sabina S, Panico S, Sacerdote C, Tumino R, Skeie G, Duell EJ, Rodriguez L, Molina-Montes E, Huerta JM, Larrañaga N, Gurrea AB, Johansen D, Manjer J, Ye W, Sund M, Peeters PH, Jeumink S, Wareham N, Khaw KT, Crowe F, Riboli E, Bueno-de-Mesquita B, Vineis P. A U-shaped relationship between plasma folate and pancreatic cancer risk in the European Prospective Investigation into Cancer and Nutrition. *Eur J Cancer*. 2011 Aug;47(12):1808-16; PMID:21411310.

Chuang SC, Gallo V, Michaud D, Overvad K, Tjønneland A, Clavel-Chapelon F, Romieu I, Straif K, Palli D, Pala V, Tumino R, Sacerdote C, Panico S, Peeters PH, Lund E, Gram IT, Manjer J, Borgquist S, Riboli E, Vineis P. Exposure to environmental tobacco smoke in childhood and incidence of cancer in adulthood in never smokers in the European prospective investigation into cancer and nutrition. *Cancer Causes Control*. 2011 Mar; 22 (3) :487-94. PMID:21279734.

Chuang SC, Lee YC, Hashibe M, Dai M, Zheng T, Boffetta P. Interaction between cigarette smoking and hepatitis B and C virus infection on the risk of liver cancer: a meta-analysis. *Cancer Epidemiol Biomarkers Prev*. 2010 May; 19 (5) :1261-8. PMID:20447919

Chuang SC, Scélo G, Lee YC, Friis S, Pukkala E, Brewster DH, Hemminki K, Tracey E, Weiderpass E, Tamaro S, Pompe-Kirn V, Kliewer EV, Chia KS, Tonita JM, Martos C, Jonasson JG, Boffetta P, Brennan P, Hashibe M. Risks of second primary cancer among patients with major histological types of lung cancers in both men and women. *Br J Cancer*. 2010 Mar 30; 102 (7) :1190-5. PMID:20354532

Chuang SC, La Vecchia C, Boffetta P. Liver cancer: descriptive epidemiology and risk factors other than HBV and HCV infection. *Cancer Lett*. 2009 Dec 1; 286 (1) :9-14. PMID:19091458.

Chuang SC, Scelo G, Tonita JM, Tamaro S, Jonasson JG, Kliewer EV, Hemminki K, Weiderpass E, Pukkala E, Tracey E, Friis S, Pompe-Kirn V, Brewster DH, Martos C, Chia KS, Boffetta P, Brennan P, Hashibe M. Risk of second primary cancer among patients with head and neck cancers: A pooled analysis of 13 cancer registries. *Int J Cancer*. 2008 Nov 15; 123 (10) :2390-6. PMID:18729183.

Chuang SC, Hashibe M, Scelo G, Brewster DH, Pukkala E, Friis S, Tracey E, Weiderpass E, Hemminki K, Tamaro S, Chia KS, Pompe-Kirn V, Kliewer EV, Tonita JM, Martos C, Jonasson JG, Dresler CM, Boffetta P, Brennan P. Risk of second primary cancer among esophageal cancer patients: a pooled analysis of 13 cancer registries. *Cancer Epidemiol Biomarkers Prev*. 2008 Jun; 17 (6) :1543-9. PMID:18559572.

Chuang SC, Hashibe M, Yu GP, Le AD, Cao W, Hurwitz EL, Rao JY, Neugut AI, Zhang ZF. Radiotherapy for primary thyroid cancer as a risk factor for second primary cancers. *Cancer Lett*. 2006 Jul 8; 238 (1) :42-52. PMID:16039041.

Chuang SC, Chen W, Hashibe M, Li G, Zhang ZF. Survival rates of invasive breast cancer among ethnic Chinese women born in East Asia and the United States. *Asian Pac J Cancer Prev*. 2006 Apr-Jun; 7 (2) :221-6. PMID:16839213.

Patent

None