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Engineering & Scientific Consulting

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Professional Profile

Dr. Chang has two decades of experience in designing, conducting, and interpreting epidemiologic studies, with a particular focus on studies of cancer and other chronic diseases. She provides scientific consultation on the potential human health effects of various chemicals (such as dioxins, chlorinated solvents, pesticides, polychlorinated biphenyls [PCBs], and perfluoroalkyl and polyfluoroalkyl substances [PFAS]), air pollutants, metals and metalloids, fibers, pharmaceuticals, medical devices, electromagnetic fields, and nutrients. She has expertise in qualitatively and quantitatively synthesizing the weight of epidemiologic evidence on causal effects of environmental exposures.

Dr. Chang's recent projects include evaluations of the epidemiologic evidence on PFAS, including perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) in association with cancer, immune outcomes, and other health conditions; diesel engine exhaust in association with lung cancer mortality; glyphosate, TCDD, trichloroethylene, and perchloroethylene in association with non-Hodgkin lymphoma and other cancers; benzene in association with leukemia; talc in association with mesothelioma; fine particulate matter, ozone, and oxides of nitrogen in association with all-cause and cause-specific mortality; and organophosphate insecticides in association with birth and developmental outcomes. Dr. Chang also frequently conducts and coordinates analyses of cancer incidence, mortality, and survival in population-based cancer registries, and investigates potential cancer clusters in communities, schools, and workplaces.

Dr. Chang has led original research studies of cancers of the head and neck, nasopharynx, stomach, liver, lung and bronchus, skin, breast, uterus, ovary, prostate, thyroid, and lymphatic system. These studies focused on a wide range of exposures including genetic variation, physical activity, body size, diet and nutrition, alcohol consumption, tobacco smoking, ultraviolet radiation, immunologic biomarkers, microbial infections, use of nonsteroidal anti-inflammatory drugs and other medications, use of hormone therapy and oral contraceptives, reproductive factors, medical history, family structure, and demographic characteristics. In addition, Dr. Chang has conducted cancer surveillance research at one of the U.S. National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) registries, and contributed to community-based research on hepatitis B and liver cancer awareness, detection, prevention, and medical management at the Asian Liver Center at Stanford University.

Dr. Chang earned her undergraduate degree in English and American literature and language from Harvard College. She earned her Sc.D. (Doctor of Science) in epidemiology with a minor in biostatistics from the Harvard School of Public Health, and she completed a post-doctoral fellowship at the Karolinska Institute. She is a member of the Stanford Cancer Institute and a former Consulting Assistant Professor in the Division of Epidemiology, Department of Health Research and Policy at the Stanford University School of Medicine. Dr. Chang has published more than 190 peer-reviewed research articles and reviews, and 12 book chapters.

Academic Credentials & Professional Honors

Sc.D., Epidemiology, Harvard University, 2003

A.B., English and American Literature and Language, Harvard University, 1998

National Cancer Institute Minority Investigators Workshop on Behavioral Methodologies Fellowship

New York Academy of Sciences (NYAS) Science Alliance Program Membership

National Institutes of Health Ruth L. Kirschstein National Research Service Award

American Association for the Advancement of Science (AAAS)/Science Program for Excellence in Science Membership

Harvard University Sheldon Traveling Fellowship

Harvard School of Public Health Department of Epidemiology Seiden Scholarship

Harvard University Pforzheimer Public Service Fellowship

National Cancer Institute/Harvard School of Public Health Cancer Epidemiology Pre-Doctoral Training Program Fellowship

Licenses and Certifications

National Incident Management System (NIMS) ICS-100 and 200

National Wildfire Coordinating Group (NWCG) S-110, 130, and 190

National Wildfire Coordinating Group (NWCG) L-180

Academic Appointments

Adjunct Associate Professor, Department of Epidemiology & Biostatistics, University of California San Francisco, 2021-

Visiting Professor, Sun Yat-sen University Cancer Center, 2019-2022

Prior Experience

Member, Stanford Cancer Institute

Consulting Assistant Professor, Division of Epidemiology, Department of Health Research and Policy, Stanford University School of Medicine, 2005–2017

Research Scientist, Cancer Prevention Institute of California, 2005–2012
Consulting Assistant Investigator, Department of Health Policy Research, Palo Alto Medical Foundation Research Institute, 2008–2012

Chief Epidemiologist, Asian Liver Center at Stanford University, 2006–2011

Post-Doctoral Fellow, Department of Medical Epidemiology and Biostatistics, Karolinska Institutet, 2003–2005

Professional Affiliations

American College of Epidemiology (Fellow)

Society for Epidemiologic Research

Languages

Mandarin

French

Publications

Tsuji JS, Lennox KP, Watson HN, Chang ET. Essential concepts for interpreting the dose-response of low-level arsenic exposure in epidemiological studies. *Toxicology* 2021; 457: 152801.

Chang ET, Ye W, Zeng YX, Adami HO. The evolving epidemiology of nasopharyngeal carcinoma. *Cancer Epidemiology, Biomarkers & Prevention* 2021; 30(6): 1035-1047.

Huang T, Ploner A, Chang ET, Liu Q, Cai YL, Zhang Z, Chen GM, Huang QH, Xie SH, Cao SM, Jia WH, Zheng YM, Liao J, Chen YF, Lin LD, Ernberg I, Huang GW, Zheng Y, Zeng YX, Adami HO, Ye W. Dietary patterns and risk of nasopharyngeal carcinoma: a population-based case-control study in southern China. *American Journal of Clinical Nutrition* 2021 May 9 (Epub ahead of print).

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Déglin SE, Chen CL, Miller DJ, Lewis RJ, Chang ET, Hamade AK, Erickson HS. Environmental epidemiology and risk assessment: exploring a path to increased confidence in public health decision-making. *Global Epidemiology* (in press).

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Feng R, Chang ET, Liu Q, Cai Y, Zhang Z, Chen G, Huang QH, Xie SH, Cao SM, Zhang Y, Yun JP, Jia WH, Zheng Y, Liao J, Chen Y, Huang T, Lin L, Ernberg I, Huang G, Zeng YX, Adami HO, Ye W. Intake of alcohol and tea and risk of nasopharyngeal carcinoma: a population-based case-control study in southern China. *Cancer Epidemiology, Biomarkers & Prevention* 2021; 30(3): 545–553.

Chang ET, Lau EC, Moolgavkar SM. Smoking, air pollution, and lung cancer risk in the Nurses' Health Study cohort: time-dependent confounding and effect modification. *Critical Reviews in Toxicology* 2020; 50(3): 189-200.

Liu Z, Jarrett RF, Hjalgrim H, Proietti C, Chang ET, Smedby KE, Yu KJ, Lake A, Troy S, McAulay KA, Pfeiffer RM, Adami HO, Glimelius B, Melbye M, Hildesheim A, Doolan DL, Coghill AE. Evaluation of the antibody response to the EBV proteome in EBV-associated classical Hodgkin lymphoma. *International Journal of Cancer* 2020; 147(3): 608-618.

Zou B, Yeo YH, Le MH, Henry L, Chang ET, Lok AS, Cheung R, Nguyen MH. Prevalence of viremic HCV infection by age, race/ethnicity, birthplace and disease awareness among viremic persons in the U.S.,

1999-2016. *Journal of Infectious Diseases* 2020; 221(3): 408-418.

Lin C, Cao SM, Chang ET, Liu Z, Cai Y, Zhang Z, Chen G, Huang QH, Xie SH, Zhang Y, Yun J, Jia WH, Zheng Y, Liao J, Chen Y, Lin L, Liu Q, Ernberg I, Huang G, Zeng Y, Zeng YX, Adami HO, Ye W. Chinese nonmedicinal herbal diet and risk of nasopharyngeal carcinoma: A population-based case-control study. *Cancer* 2019; 125(24): 4462-4470.

Chao SD, Cheung CM, Chang ET, Pei A, So SKS. Management of hepatitis B infected pregnant women: a cross-sectional study of obstetricians. *BMC Pregnancy and Childbirth* 2019; 19(1): 275.

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Tsuji JS, Chang ET, Gentry PR, Clewell HJ, Boffetta P, Cohen SM. Dose-response for assessing the cancer risk of inorganic arsenic in drinking water: the scientific basis for use of a threshold approach. *Critical Reviews in Toxicology* 2019; 49(1): 36-84.

Leonhard MJ, Chang ET, Loccisano AE, Garry MR. A systematic literature review of epidemiologic studies of developmental manganese exposure and neurodevelopmental outcomes. *Toxicology* 2019; 420: 46-65.

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Williams AL, Bates CA, Pace ND, Leonhard MJ, Chang ET, DeSesso JM. Impact of chloroform exposures on reproductive and developmental outcomes: A systematic review of the scientific literature. *Birth Defects Research* 2018; 110(17): 1267-1313.

Yeo YH, Le MH, Chang ET, Henry L, Nguyen MH. The prevalence of undetectable vaccine-induced immunity against hepatitis B virus in US adults at high risk for infection. *Hepatology* 2019; 69(4): 1385-1397.

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Hollander P, Rostgaard K, Smedby KE, Chang ET, Amini RM, de Nully Brown P, Glimelius B, Adami HO, Melbye M, Glimelius I, Hjalgrim H. Autoimmune and atopic disorders and risk of classical Hodgkin lymphoma. *American Journal of Epidemiology* 2015; 182(7): 624-632.

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Chang ET. Epidemiology of cancer and inorganic arsenic in drinking water and the basis for estimated threshold of 100 µL. Presentation and panel discussion at The Toxicology Forum 45th Annual Summer Meeting, Alexandria, Virginia, July 8, 2019.

Chang ET. Separating association from causation using epidemiology. Webinar for DRI Toxic Torts and Environmental Law Committee, May 21, 2019.

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Plenary speaker. NPC international incidence and risk factors. 7th International Biannual Symposium on Nasopharyngeal Carcinoma 2015, Yogyakarta, Indonesia, June 3-6, 2015.

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Wakelee HA, Chang ET, Shema SJ, Reynolds P, Duchêne C, Wiencke J, Gomez SL. Survival after non-small cell lung cancer in never-smoking Asian/Pacific Islander and Latina women. *Journal of Thoracic Oncology* 2009; 4(9 Suppl 1): s310 (Abstr#A7.6). Oral presentation at 13th World Conference on Lung Cancer, San Francisco, CA, July 31-August 4, 2009.

Chang ET, Kasperzyk JL, Birmann BM, Kraft P, Zheng T, Mueller NE. One-carbon metabolism nutrients and genes and Hodgkin lymphoma risk. Oral presentation at InterLymph Consortium 8th Annual Meeting, Vancouver, British Columbia, July 19-22, 2009.

Marshall SF, Chang ET, Clarke CA, Cress R, Deapen D, Horn-Ross PL, Largent J, Neuhausen S, Reynolds P, Templeman C, Bernstein L. Hormone therapy before diagnosis and breast cancer survival in the 10 California Teachers Study. Abstract at San Antonio Breast Cancer Symposium, San Antonio, TX, December 10-14, 2008.

Telli ML, Kurian AW, Chang ET, Keegan THM, McClure LA, Ford JM, Gomez SL. Differences in breast cancer subtype distribution exist among ethnic subgroups of Asian women in California. Abstract at San Antonio Breast Cancer Symposium, San Antonio, TX, December 10-14, 2008.

Telli ML, Kurian AW, Chang ET, Keegan THM, Ford JM, Gomez SL. Asian race and breast cancer subtypes: a study from the California Cancer Registry. Poster at 44th American Society for Clinical Oncology (ASCO) Annual Meeting, Chicago, IL, May 30-June 3, 2008.

Invited speaker. Hepatitis B and liver cancer prevention in Asian/Pacific Islander Americans. Department of Epidemiology, Harvard School of Public Health, Boston, MA, April 1, 2008.

Chen JJ, Bergin M, Chang ET, So SK. A model HBV catch-up immunization and education project in Qinghai, China. Workshop presentation at 42nd National Immunization Conference, Atlanta, GA, March 17-20, 2008.

Bergin M, Rao A, Chang ET, So SK. Motivating youth to take action in public health: 5th Annual Youth Leadership Conference on Asian and Pacific Islander Health. Poster at 42nd National Immunization Conference, Atlanta, GA, March 17-20, 2008.

Invited speaker. Integration of population sciences with clinical research. Cancer Clinical Trials Forum, Stanford University School of Medicine, Stanford, California, July 18, 2007.

Chang ET, Nguyen BH, So SK. Determinants of hepatitis B awareness and prevention in Chinese Americans. Poster and presentation at Stanford Cancer Center retreat, Menlo Park, CA, March 12, 2007.

Chang ET, Lin SY, So SK. The Jade Ribbon Campaign: Hepatitis B virus screening and education in Asian/Pacific Islander Americans. Presentation at 2006 National Asian American Pacific Islander Health Summit, San Jose, CA, September 15, 2006.

Chang ET, Canchola AJ, Lee VS, Clarke CA, Reynolds P, Horn-Ross PL, and the California Teachers Study Investigators. Wine and other alcohol consumption and risk of ovarian cancer in the California Teachers Study cohort. Abstract and poster at 2nd North American Congress of Epidemiology, Seattle,

WA, June 21-24, 2006.

Invited speaker. The role of the Epstein-Barr virus in Hodgkin lymphoma. Viruses and Cancer Symposium, Harvard School of Public Health, Boston, MA, May 5, 2006.

Invited speaker. The changing racial/ethnic burden of liver cancer in the Greater San Francisco Bay Area. Greater Bay Area Cancer Registry Certified Tumor Registrars Meeting, Fremont, CA, April 5, 2006.

Invited speaker. The role of the Epstein-Barr virus in Hodgkin lymphoma. Department of Epidemiology, University of Michigan School of Public Health, Ann Arbor, MI, January 12, 2005.

Invited speaker. Department of Epidemiology, University of Washington School of Public Health and Community Medicine, and Seattle Epidemiologic Research and Information Center, Seattle, WA, August 17, 2004.

Levin LI, Lennette ET, Ambinder RF, Chang ET, Rubertone M, Mueller NE. Prediagnosis Epstein-Barr virus serologic patterns in relation to the molecular status of Hodgkin's lymphoma in young adults. Abstract and poster at American Association for Cancer Research International Conference on Molecular and Genetic Epidemiology of Cancer, Waikoloa, HI, January 18-23, 2003.

Chang ET, Ambinder RF, Weir EG, Borowitz M, Mann RB, Zheng T, Mueller NE. Inverse association between nursery school and Hodgkin's lymphoma, independent of EBV tumor status. Abstract and poster at 10th Biennial Meeting of the International Association for Research on Epstein-Barr Virus and Associated Diseases, Cairns, Australia, July 16-21, 2002.

Levin LI, Lennette ET, Ambinder RF, Chang ET, Rubertone M, Mueller NE. Prediagnosis Epstein-Barr virus serologic patterns in EBV-positive and EBV-negative Hodgkin's lymphoma. Abstract and poster at 10th Biennial Meeting of the International Association for Research on Epstein-Barr Virus and Associated Diseases, Cairns, Australia, July 16-21, 2002.

Chang ET, Ambinder RF, Zheng T, Mueller NE. Inverse association between childhood history of nursery school and Hodgkin's lymphoma in a population-based case-control study. *Leukemia & Lymphoma* 2001; 42(Suppl 2): 39-40. Abstract and poster at 5th International Symposium on Hodgkin's Lymphoma, Cologne, Germany, September 22-25, 2001.

Chang ET, Ambinder RF, Zheng T, Mueller NE. Inverse association between aspirin use and Hodgkin's lymphoma in a population-based case-control study. *Leukemia & Lymphoma* 2001; 42(Suppl 2): 41. Abstract and poster at 5th International Symposium on Hodgkin's Lymphoma, Cologne, Germany, September 22-25, 2001.

Chang ET, Birmann B, Ambinder RF, Zheng T, Mueller NE. Serum sCD23 levels in Hodgkin's disease patients are higher in EBV genome-positive than EBV genome-negative cases. Abstract, poster, and presentation at 9th Biennial Meeting of the International Association for Research on Epstein-Barr Virus and Associated Diseases, New Haven, Connecticut, June 22-27, 2000.

Advisory Appointments

Panelist, Evidence Synthesis and Its Application, National Academies Committee on Guidance on PFAS Testing and Health Outcomes, July 2021

Steering Committee Member, Subcommittee on Application of Environmental Epidemiology for Risk Assessment and Decision Making, Health and Environmental Sciences Institute (HESI), 2019–present

Contributor, *American Cancer Society Cancer Facts & Figures*, 2014–2020

Member, Faculty of 1000 Medicine, 2007–2017

Steering Committee Member, California Teachers Study, 2007–2012

Scientific Member, Institutional Review Board, Cancer Prevention Institute of California, 2006–2012

Ad hoc member, ZRG1 PSE-P (02) M: NIH Special Emphasis Panel/Scientific Review Group for EPIC (Epidemiology of Cancer), March 2014

Ad hoc member, EPIC (Epidemiology of Cancer), NIH Population Sciences and Epidemiology Integrated Review Group, February and October 2010, June 2012

Ad hoc member, ZCA1 SRLB-3 (J1): NIH-Supported Centers for Population Health and Health Disparities Special Emphasis Panel, October 2009

Reviewer, Academia Sinica Investigator Award, 2009

Peer Reviewer

Acta Oncologica

American Journal of Epidemiology

American Journal of Public Health

Annals of Epidemiology

Annals of Oncology

Blood

Breast Cancer Research

Cancer

Cancer Causes & Control

Cancer Epidemiology

Cancer Epidemiology, Biomarkers & Prevention

Cancer Research

Clinical Cancer Research

Critical Reviews in Toxicology

Environment International

Environmental Research

Epidemiology

European Journal of Epidemiology

Hepatology

International Journal of Cancer

JAMA

Journal of Medical Virology

Journal of the National Cancer Institute

Journal of the National Cancer Institute (JNCI) Cancer Spectrum

Leukemia Research

Molecular Carcinogenesis

Nutrition and Cancer

PLOS ONE

Regulatory Toxicology and Pharmacology

Risk Analysis

Social Science & Medicine

Toxicology