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Engineering & Scientific Consulting

Ellen Chang, Sc.D.

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Professional Profile

Dr. Chang has nearly 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 170 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

Academic Appointments

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

Member, Stanford Cancer Institute, 2005-present

Prior Experience

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

Barrett D, Ploner A, Chang ET, Liu Z, Zhang CX, Liu Q, Cai Y, Zhang Z, Chen G, Huang QH, Xie SH, Cao SM, Shao JY, Jia WH, Zheng Y, Liao J, Chen Y, Lin L, Ernberg I, Adami HO, Huang G, Zeng Y, Zeng YX, Ye W. Past and recent salted fish and preserved food intakes are weakly associated with nasopharyngeal carcinoma risk in adults in southern China. *Journal of Nutrition* 2019 May 25 [Epub ahead of print].

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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.

Trinh S, Le AK, Chang ET, Hoang J, Jeong D, Chung M, Lee MH, Wang U, Henry L, Cheung R, Nguyen MH. Changes in renal function in patients with chronic HBV infection treated with tenofovir disoproxil fumarate vs entecavir. *Clinical Gastroenterology and Hepatology* 2019; 17(5): 948-956.

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Kurtz SM, Lau EC, Son MS, Chang ET, Zimmerli W, Parvizi J. Are we winning or losing the battle with periprosthetic joint infection: trends in PJI and mortality risk for the Medicare population. *Journal of Arthroplasty* (in press).

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medication use, and risk of nasopharyngeal carcinoma. *American Journal of Epidemiology* 2018 April 26 [Epub ahead of print].

Chang ET, Lau EC, Van Landingham C, Crump KS, McClellan RO, Moolgavkar SH. Reanalysis of diesel engine exhaust and lung cancer mortality in the Diesel Exhaust in Miners Study (DEMS) cohort using alternative exposure estimates and radon adjustment. *American Journal of Epidemiology* 2018; 187(6): 1210-1219.

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Hummel D, Topp MS, Chang ET, Chia VM, Kelsh MA, Doemland ML, Alekar S, Stein AS. Adverse events in adults with relapsed or refractory acute lymphoblastic leukemia (ALL): a literature review of recent clinical trials. *Journal of Leukemia* 2016; 4(1): 208.

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Book Chapters, Research Letters, and Invited Commentaries

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Wakelee HA, Gomez SL, Chang ET. Sex differences in lung cancer susceptibility: A smoke screen? *Lancet Oncology* 2008; 9(7): 609-610.

Chang ET, So SK. Re: "Ten largest racial and ethnic health disparities in the United States based on Healthy People 2010 objectives". *American Journal of Epidemiology* 2007; 166(9): 1105-1106.

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Birmann B, Chang ET, Mueller NE. Chapter 2. Epidemiology of lymphoma. In: Malignant Lymphomas. Grossbard ML (ed), Hamilton, Ontario: BC Decker, Inc., 2002: 31-46.

Abstracts, Posters, and Presentations

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

Lewis RC, Chang ET. Beyond compliance: a greater understanding of exposure limits for informing risk communication. Webinar for PLAC, May 16, 2019.

Yeo YH, Le MH, Chang ET, Henry L, Nguyen MH. The majority of previously uninfected high-risk adults in the United States do not have immunity against hepatitis B virus: a population-based study. Abstract and presentation at AASLD The Liver Meeting, San Francisco, California, November 9-13, 2018.

Pace N, Chang ET. The epidemiology of chloroform exposure and developmental outcomes: a systematic review. Abstract and presentation at Teratology Society 58th Annual Meeting, Clearwater, Florida, June 23-27, 2018.

McClellan RO, Chang ET, Lau EC, Van Landingham C, Crump KS, Moolgavkar SH. Case study in data access and reanalysis: Diesel engine exhaust and lung cancer mortality in the Diesel Exhaust in Miners (DEMS) cohort using alternative exposure estimates and radon adjustment. Abstract and presentation at Society for Risk Analysis 2017, Arlington, Virginia, December 10-14, 2017.

Kurtz SM, Lau E, Chang E, Son M, Zimmerli W, Parvizi J. Are we winning or losing the war with PJI: trends in PJI and mortality risk for the Medicare population. Abstract and presentation at The Knee Society 2017, Naples, Florida, September 14-16, 2017.

Chen VL, Podlaha O, Estevez J, Li B, Le A, Vutien P, Chang ET, Pflanz S, Jiang Z, Ge D, Gaggar A, Nguyen MH. High serum soluble intracellular adhesion molecule 1 (sICAM-1) concentration is associated with hepatocellular carcinoma development in hepatitis B virus, hepatitis C virus, and non-viral liver disease: Multiplex analysis of 51 cytokines and other serum markers. Abstract and presentation at Digestive Disease Week 2016, San Diego, California, May 21-24, 2016.

Estevez J, Chen VL, Podlaha O, Li B, Le A, Vutien P, Chang ET, Jiang Z, Pflanz S, Ge D, Gaggar A, Nguyen MH. Differential cytokine profiles in patients with hepatocellular carcinoma related to hepatitis B virus (HBV) and hepatitis C virus (HCV) infection. Abstract and presentation at Digestive Disease Week 2016, San Diego, California, May 21-24, 2016.

Chang ET. Weight-of-evidence synthesis in epidemiology: What's the bottom line? Presentation at DRI Toxic Torts and Environmental Law Seminar, New Orleans, Louisiana, March 17-18, 2016.

Chen VL, Vutien P, Li B, Podlaha O, Chang ET, Jiang Z, Ge D, Gaggar A, Nguyen MH. Differential serum cytokine profiles in patients with hepatitis B virus (HBV), hepatitis C virus (HCV), and non-viral non-autoimmune liver disease, with or without hepatocellular carcinoma (HCC). Abstract and poster at The AASLD Liver Meeting 2015, San Francisco, California, November 13-17, 2015.

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

Session chair for plenary session on genetics and epigenetics of nasopharyngeal carcinoma. 7th International Biannual Symposium on Nasopharyngeal Carcinoma 2015, Yogyakarta, Indonesia, June 3-6, 2015.

Invited speaker. Reanalysis of the Diesel Exhaust in Miners Study (DEMS) cohort. Mario Negri Institute for Pharmacological Research, Milan, Italy, March 12, 2015.

Epstein MM, Chang ET, Zhang Y, Fung T, Batista JL, Ambinder RF, Zheng T, Mueller NE, Birmann BM. Diet patterns and risk of Hodgkin lymphoma in a population-based case-control study. Abstract and presentation at 2014 InterLymph Annual Meeting, Los Angeles, CA, June 17-20, 2014.

Hjalgrim H, Monnereau A, Glaser SL, Chang E. Risk factors for classical Hodgkin lymphoma. Presentation at 2013 InterLymph Annual Meeting, Dijon, France, June 24-26, 2013.

Birmann BM, Epstein MM, Chang ET, Zhang Y, Fung T, Kasperzyk J, Ambinder RF, Zheng T, Mueller NE. Dietary patterns and risk of Hodgkin lymphoma in a population-based case-control study [Abstract

491-S]. American Journal of Epidemiology 2013; 177(11Suppl): S123. Poster at 46th Annual Society for Epidemiologic Research (SER) Meeting, Boston, MA, June 18-21, 2013.

Gao L, Chang E, Nelson D, Vutien P, Rosenberg-Hassan Y, Nguyen MH. Serum cytokine profiles and hepatocellular carcinoma (HCC) in patients with chronic hepatitis C. Poster at Digestive Disease Week, Orlando, FL, May 18–21, 2013.

Vutien P, Chang E, Nelson D, Gao L, Rosenberg-Hassan Y, Nguyen MH. Serum cytokine profiles in patients with hepatitis B virus (HBV) infection and associated hepatocellular carcinoma (HCC). Poster at Digestive Disease Week, Orlando, FL, May 18–21, 2013.

Monnereau A, Glaser SL, Chang ET. Ultraviolet radiation (UVR) and risk of Hodgkin lymphoma: A pooled analysis. Presentation at InterLymph Consortium Annual Meeting, Washington, DC, June 7, 2012.

Invited speaker. Gastric cancer incidence patterns in California Hispanics. Northern California Cancer Registrars Association Conference, Fremont, CA, December 14, 2011.

Ai W, Chang E, Fu K, Fish K, Weisenburger DD, Keegan T. Racial/ethnic patterns of NK/T cell lymphoma in California: A population-based study. Abstract at International Conference on Malignant Lymphoma, Lugano, Switzerland, June 15-18, 2011.

Colevas AD, Clarke CA, Lichtensztajn D, Chang ET. A population-based evaluation of incidence trends in oropharynx cancer focusing on socioeconomic status, sex, and race/ethnicity. Poster at American Society of Clinical Oncology (ASCO) Annual Meeting, Chicago, IL, June 4-8, 2010.

Clément-Duchêne C, Xu X, Gomez SL, Chang ET, West DW, Wakelee HA, Gould MK. Survival among never and ever smokers with lung cancer in the Cancer Care Outcomes Research and Surveillance Consortium (CanCORS) study. Poster at American Society of Clinical Oncology (ASCO) Annual Meeting, Chicago, IL, June 4-8, 2010.

Chang ET. Ultraviolet radiation exposure & sensitivity and risk of Hodgkin lymphoma: A pooled analysis. Presentation at InterLymph Consortium 9th Annual Meeting, Washington, DC, April 15, 2010.

Chang ET, Nguyen BH, So SK. Motivations for hepatitis B and liver cancer prevention in Bay Area Chinese Americans. Poster at Stanford Cancer Center Members' Retreat, Menlo Park, CA, April 7, 2010.

Wakelee HA, Chang ET, Shema SJ, Reynolds P, Clément-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

Member, Faculty of 1000 Medicine, 2007-2017

Member, California Teachers Study Steering Committee, 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

American Journal of Epidemiology

American Journal of Public Health

Annals of Epidemiology/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
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
Risk Analysis
Social Science & Medicine