



**NATIONAL CANCER INSTITUTE**

**Division of Cancer Epidemiology & Genetics**

## Posters and Projects by 2016 DCEG Summer Interns

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August 19, 2016, by DCEG Staff



Forty-seven summer interns presented posters and projects at this year's recognition and poster event, fielding questions from investigators throughout the Division.

### Posters

**Eleanor Belilos**, Cornell University (New York)\*

*Subtype-specific breast cancer survival trends*

**Mentors:** Dr. Jennifer Gao, Dr. Sandra Swain, [William Anderson, M.D., M.P.H.](#), and [Philip Rosenberg, Ph.D.](#)

**Hannah Creutzfeldt**, Wellesley College (Massachusetts)\*

*Geographic patterns in U.S. lung cancer incidence by histologic type*

**Mentors:** [Rena Jones, Ph.D.](#) and [Susan Devesa, Ph.D.](#)

**Kelsey Decker**, Hood College (Maryland)\*

*The global pattern of epidermal growth factor receptor mutations in lung adenocarcinoma*

**Mentor:** [Wei Jie Seow, M.S., Sc.D.](#)

**Joseph Deng**, University of Maryland, College Park (Maryland)

*Distribution of age at diagnosis and molecular subtypes in Chinese breast cancer patients*

**Mentors:** [Rose Yang, Ph.D., M.P.H.](#) and Ms. Jennifer Guida

### DCEG Summer Learning Activities

The DCEG Office of Education coordinated a variety of activities for summer interns:

**Learn about:** [Summer Intern Program](#)

**Explore:** [Summer Journal and Science Clubs](#)

**Browse:** [Posters/Projects by Summer Interns](#)

**Watch:** [Summer Interns 2016 Video](#)

**Read:** [NIH Summer Enrichment Program for High School Students](#)

**William Figg, Jr.**, Trinity College (Dublin, Ireland)\*

*Mosaic PPM1D protein truncating variants and risk in breast cancer*

**Mentors:** [Mitchell Machiela, Sc.D.](#), and Timothy Myers

**Ernesto Gagarin**, Virginia Commonwealth University (Virginia)

*The effect of smoking on human gut microbiota*

**Mentor:** [Guoqin Yu, Ph.D.](#)

**Ellen Goldstein**, University of Wisconsin-Madison\*

*Regulatory effects by ZNF148 on pancreatic cancer susceptibility loci on chr5p15.33*

**Mentors:** [Ashley Jermusyk, Ph.D.](#), and [Laufey Amundadottir, Ph.D.](#)

**Nathan Golightly**, Brigham Young University (Utah)

*Evaluation of rare and potentially deleterious variants in genome-wide association genes related to pancreatic cancer*

**Mentor:** [Alisa Goldstein, Ph.D.](#)

**Jennifer Guida**, University of Maryland, College Park (Maryland)

*The association between mammographic density and molecular subtype in Chinese women with breast cancer*

**Mentors:** [Hyuna Sung, Ph.D.](#), and [Rose Yang, Ph.D.](#)

**Raul Ulises Hernandez-Ramirez**, Yale School of Public Health (Connecticut)

*Spectrum of cancer risk among HIV infected people during the modern antiretroviral era*

**Mentors:** [Eric Engels, M.D.](#) and [Meredith Shiels, Ph.D.](#)

**Jessica Islam**, University of North Carolina Chapel Hill, Gillings School of Global Public Health \*

*Projections of cancer incidence among the HIV-positive population of the United states up to 2030*

**Mentors:** [Meredith Shiels, Ph.D.](#), and [Eric Engels, M.D., M.P.H.](#)

**Justin Joseph**, Virginia Commonwealth University (Virginia)\*

*Effects on metabolites of reduced dietary sodium: The Dietary Approaches to Stop Hypertension-Sodium (DASH)-Sodium Feeding Study*

**Mentors:** [Rachael Stolzenberg-Solomon, Ph.D., M.P.H., R.D.](#), [Andriy Derkach, Ph.D.](#), and [Joshua Sampson, Ph.D.](#)

**Yonathan Kefelegn**, George Washington University Milken Institute of Public Health (District of Columbia)\*

*Comparative analysis of personal samplers: A field study*

**Mentors:** [Melissa Friesen, Ph.D.](#), and [Jason Wong, Sc.D.](#)

**Christen Khella**, Rutgers University (New Jersey)\*

*Screening for SNVs associated with clonal hematopoiesis*

**Mentors:** [Stephen Chanock, M.D.](#), and [Mitchell Machiela, Sc.D.](#)

**Sarah Kim**, Clarksburg High School (Maryland)\*

*Uncertainty in the esophagus dose in retrospective epidemiological study of radiotherapy patients*

**Mentor:** [Choonsik Lee, Ph.D.](#)

**Natalie Kucharik**, Tulane University (Louisiana)\*

*Associations of breast milk erythropoietin and lactoferrin levels with HTLV-I maternofetal transmission in Jamaica*

**Mentors:** [Charles Rabkin, M.D.](#), and [Maria Constanza Camargo, Ph.D.](#)

**Margaret Langhamer**, Emory University Rollins SPH (Georgia)\*

*Associations between biliary tract cancers and family history of cancers in the Biliary Tract Cancers Pooling Project (BiTCaPP)*

**Mentors:** [Jill Koshiol, Ph.D.](#), and [Alison Van Dyke, M.D., Ph.D.](#)

**Seraph Han-Yin Lin**, Pasadena City College (California)\*

*Identification of cellular factors regulating APOBEC3A and APOBEC3B expression in bladder cancer cell lines*

**Mentors:** [Rouf Banday, Ph.D.](#), [Olusegun Onabajo, Ph.D.](#), and [Ludmila Prokunina-Olsson, Ph.D.](#)

**Hanna Lindner**, University of Pennsylvania (Pennsylvania)\*

*Regional trends and patterns in prostate cancer incidence among blacks and whites in the United States*

**Mentors:** [Philip Rosenberg, Ph.D.](#), [Pavel Chernyavskiy, Ph.D.](#), [Scott P. Kelly, Ph.D.](#), and [William Anderson, M.D., M.P.H.](#)

**Jessica Merberg**, Boston College (Massachusetts)\*

*Identification/verification of a potentially deleterious CASP9 mutation in two hairy cell leukemia (HCL) pedigrees and evaluation of the enzyme activity in cell lysates from affected and unaffected individuals*

**Mentors:** [Alex Pemov, M.D., Ph.D.](#), and [Douglas Stewart, M.D.](#)

**Adam Olson**, Miami University (Ohio)\*

*NGS analysis of frequently altered RCC genes and occupational exposures to carcinogens*

**Mentors:** [Lee Moore, Ph.D.](#), and [Michael Nickerson, Ph.D.](#)

**Mauricio Marquez Palencia**, University of California, San Diego (California)\*

*Comparative analysis of PD-L1 expression induced by Type-I, II and II interferons in breast and bladder cancer cell lines*

**Mentors:** [Ludmila Prokunina-Olsson, Ph.D.](#), and [Olusegun Onabajo, Ph.D.](#)

**Arbor Quist**, University of North Carolina at Chapel Hill (North Carolina)\*

*Nitrate ingestion from drinking water and diet and pancreatic cancer among postmenopausal women*

**Mentors:** [Rena Jones, Ph.D.](#), and [Mary Ward, Ph.D.](#)

**Sandhiya Ravichandran**, Washington University in St. Louis (Missouri)\*

*Pulmonary functions in patients with inherited bone marrow failure syndromes*

**Mentors:** [Blanche Alter, M.D., M.P.H.](#), and [Neelam Giri, M.D., M.B.B.S.](#)

**Erika Rees-Punia**, University of Georgia (Georgia)\*

*Predicting body composition in a large epidemiologic study: An evaluation of all-cause mortality*

**Mentors:** [Charles E. Matthews, Ph.D.](#), and [Sarah K. Keadle, Ph.D., M.P.H.](#)

**Loredana Santo**, George Washington University (District of Columbia)\*

*A prospective study of circulating resistin levels and multiple myeloma risk*

**Mentor:** [Jonathan Hofmann, Ph.D.](#)

**Ariana Savramis**, Maret School (District of Columbia)\*

*Evaluation of exome NGS to confirm variants in TCGA patients with kidney cancer*

**Mentor:** Michael Nickerson, Ph.D.

**Lucy Sun**, Harvard T.H. Chan School of Public Health (Massachusetts)\*

*Association between intake of flavonoids and incidence of upper gastrointestinal cancers in the NIH-AARP Diet and Health Study*

**Mentors:** Jessica Petrick, Ph.D., Michael Cook, Ph.D., and Katherine McGlynn, Ph.D., M.P.H.

**Andrew Teng**, Georgia Institute of Technology (Georgia)\*

*Genomic Characterization of human papillomavirus 16*

**Mentors:** Kai Yu, Ph.D., and Lisa Mirabello, Ph.D., M.S.

**Janelle Thomas**, George Washington University (District of Columbia)\*

*Functional characterization of a pancreatic cancer risk locus on Chr13q22.1*

**Mentors:** Laufey Amundadottir, Ph.D., and Jason Hoskins, Ph.D.

**Natalie Turner**, University at Albany, State University of New York (New York)\*

*Age-specific incidence trends for non-cardia gastric carcinoma among younger and older adults*

**Mentors:** William Anderson, M.D., M.P.H., Kai Yu, Ph.D., Charles Rabkin, M.D., Philip Rosenberg, Ph.D., and Maria Constanza Camargo, Ph.D.

**Onyinyechi Ukaire**, Tufts University (Massachusetts)

*IFN- $\lambda$ 4 is a potent inhibitor of cell proliferation in HepG2 Cells*

**Mentors:** Olusegun Onabajo, Ph.D., Adeola Obajemu, and Ludmila Prokunina-Olsson, Ph.D.

**Rachel Ungar**, University of Arkansas (Arkansas)\*

*Comprehensive genomic analyses of autosomal recessive Hoyerall-Hreidarsson syndrome*

**Mentor:** Sharon Savage, M.D.

**Michael Erik Untereiner**, Pomona College (California)

*An interactive tool for visualization and evaluation of next-generation sequencing data*

**Mentors:** Nicolas Wentzensen, M.D., Ph.D., and Clara Bodelon, Ph.D.

**Eric Xiao**, Montgomery Blair High School (Maryland)\*

*Systematic review of the impact of smoking on breast and prostate cancer survivors*

**Mentor:** Fangyi Gu, M.Med., Sc.D.

**Jackie Xiang**, SUNY Downstate College of Medicine (New York)

*Characterization of mismatch repair deficiency in a population-based study of endometrial cancer*

**Mentor:** Nicolas Wentzensen, M.D., Ph.D.

**Jeffrey Yu**, University of Maryland, College Park (Maryland)\*

*Identification and analysis of Helicobacter pylori and Epstein-Barr Virus nucleic acid sequences in gastric tissues*

**Mentors:** Maria Constanza Camargo, Ph.D., Charles Rabkin, M.D., and Daoud Meerzaman

**Rona Yu**, Montgomery Blair High School (Maryland)\*

*An investigation of association of genetic susceptibility risk with somatic mutation burden in prostate cancer*

**Mentor:** [Bin Zhu, Ph.D.](#)

**Clara Zettelmeyer**, University of Edinburgh (Scotland)\*

*Exploring the effect of estradiol exposure on the expression of the APOBEC3 gene family in breast cancer cell lines*

**Mentors:** [Ludmila Prokunina-Olsson, Ph.D.](#), [Rouf Banday, Ph.D.](#), and [Krizia-Ivana Udquim](#)

**Tracey Zhai**, The University of Maryland, College Park (Maryland)\*

*Microbiome associations by sample collection method*

**Mentors:** [Jianxin Shi, Ph.D.](#), [Xing Hua, Ph.D.](#), and [Emily Vogtmann, Ph.D., M.P.H.](#)

**Zhiying Zhu**, The City College of New York (New York)\*

*Reproductive factors and risk of lung cancer: A systematic review and meta-analysis*

**Mentor:** [Wei Jie Seow, M.S., Sc.D.](#), and [Qing Lan, M.D., Ph.D., M.P.H.](#)

## Projects

**Joshua Engels**, Walt Whitman High School (Bethesda, Maryland)\*

*Association between allergies and other immune-related conditions and glioma risk in a U.S. military study*

**Mentors:** [Ruth Pfeiffer, Ph.D.](#), and [Alina Brenner, M.D., Ph.D., M.P.H.](#)

**Manila Hada**, University of Michigan, Ann Arbor (Michigan)

*Serum retinol and different cancer sites in ATBC study*

**Mentors:** [Stephanie Weinstein, Ph.D.](#) and [Demetrius Albanes, M.D.](#)

**\* Also presented at NIH Summer Intern Poster Day, July 29, 2016**

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*Aaron Blair Receives Inaugural EPICOH Award*

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*Ruth Kleinerman Awarded Doctoral Degree*

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