

# EGRP Research Highlights

Epidemiology and Genetics Research Program

Web site: <http://epi.grants.cancer.gov>

Spring 2011

The National Cancer Institute's (NCI) Epidemiology and Genetics Research Program (EGRP), in the Division of Cancer Control and Population Sciences (DCCPS), funds research in human populations to understand the causes of cancer and related outcomes. EGRP is the largest funder of cancer epidemiology grants nationally and worldwide, supporting more than 300 grants and cooperative agreements annually. The research featured in this publication was funded in full or in part by EGRP. The featured research was nominated by extramural investigators and selected by EGRP Program Staff based on scientific merit, innovation, and/or potential public health impact. Please visit EGRP's Web site to view highlights from many other studies: <http://epi.grants.cancer.gov/highlights>.

## Breast Cancer

### Adding Common Genetic Variants to Breast Cancer Risk Models Offers Only Small Benefit

Wacholder S, Hartge P, Prentice R, Garcia-Closas M, Feigelson HS, Diver WR, et al. Performance of common genetic variants in breast-cancer risk models. *N Engl J Med* 2010 Mar 18;362(11):986-93.



Michael Thun

Susan Hankinson

David Hunter

**This research was funded in part by EGRP grants to Michael Thun, M.D., of the American Cancer Society; Susan Hankinson, Sc.D., of Brigham and Women's Hospital, Harvard Medical School, and Harvard School of Public Health; and David Hunter, M.D., Sc.D., of Harvard University School of Public Health.**

### Circadian Rhythm Gene Variants May Affect Breast Cancer Risk

Hoffman AE, Yi CH, Zheng T, Stevens RG, Leaderer D, Zhang Y, et al. CLOCK in breast tumorigenesis: genetic, epigenetic, and transcriptional profiling analyses. *Cancer Res* 2010 Feb 15;70(4):1459-68.

**This research was funded by EGRP grants to Yong Zhu, Ph.D., of Yale University School of Medicine.**



Yong Zhu

### Neural Network Model Effectively Discriminates Between Malignant and Benign Breast Lesions

Ayer T, Alagoz O, Chhatwal J, Shavlik JW, Kahn CE, Jr., Burnside ES. Breast cancer risk estimation with artificial neural networks revisited: discrimination and calibration. *Cancer* 2010 Jul 15;116(14):3310-21.

**This research was funded in part by an EGRP grant to Oguzhan Alagoz, Ph.D., of the University of Wisconsin, Madison.**

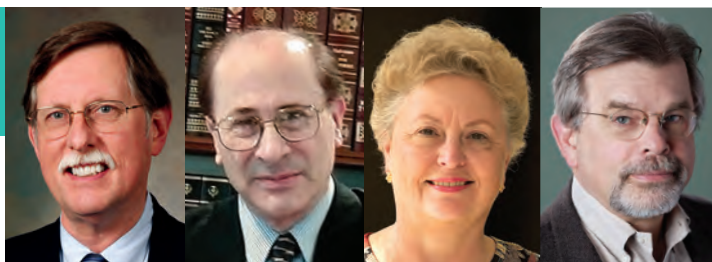


Oguzhan Alagoz

## Young Girls Attaining Puberty at Earlier Ages; Investigators Examine Link to Environmental Exposures

Biro FM, Galvez MP, Greenspan LC, Succop PA, Vangeepuram N, Pinney SM, et al. Pubertal assessment method and baseline characteristics in a mixed longitudinal study of girls. *Pediatrics* 2010 Sep;126(3):e583-90.

**This research was funded in part by EGRP grants to Robert Bornschein, Ph.D., of the University of Cincinnati; Jose Russo, M.D., of the Fox Chase Cancer Center; Sandra Haslam, Ph.D., of Michigan State University; and Robert Hiatt, M.D., Ph.D., of the University of California, San Francisco. Frank Biro, M.D., of the Cincinnati Children's Hospital Medical Center; Lawrence Kushi, Sc.D., of the Kaiser Foundation Research Institute; and Mary Wolff, Ph.D., of Mount Sinai School of Medicine, are EGRP grantees and the Principal Investigators for the ongoing Puberty Studies. The research funded by these grants is part of the Breast Cancer and the Environment Research Program (BCERP). Learn more about the BCERP at <http://epi.grants.cancer.gov/BCERP>.**



*Robert Bornschein*

*Jose Russo*

*Sandra Haslam*

*Robert Hiatt*



*Frank Biro*

*Lawrence Kushi*

*Mary Wolff*

## Older, Early-Stage Breast Cancer Patients Have Better Survival With Lumpectomy Plus Radiation Rather Than Mastectomy

Keating NL, Landrum MB, Brooks JM, Chrischilles EA, Winer EP, Wright K, et al. Outcomes following local therapy for early-stage breast cancer in non-trial populations. *Breast Cancer Res Treat* 2011 Feb;125(3):803-13.

**This research was funded by an EGRP grant to Nancy Keating, M.D., M.P.H., of Brigham and Women's Hospital and Harvard Medical School.**



*Nancy Keating*

## HIV Infection

### HIV Infection in Males Associated With HPV Infection

Smith JS, Moses S, Hudgens MG, Parker CB, Agot K, Maclean I, et al. Increased risk of HIV acquisition among Kenyan men with human papillomavirus infection. *J Infect Dis* 2010 Jun 1;201(11):1677-85.

**This research was funded in part by an EGRP grant to Jennifer Smith, Ph.D., of the University of North Carolina, Chapel Hill.**



*Jennifer Smith*

## Lymphoma

### Genome-Wide Association Study Identifies New Susceptibility Locus for Follicular Lymphoma

Conde L, Halperin E, Akers NK, Brown KM, Smedby KE, Rothman N, et al. Genome-wide association study of follicular lymphoma identifies a risk locus at 6p21.32. *Nat Genet* 2010 Aug;42(8):661-4.

**This research was funded in part by EGRP grants to Christine Skibola, Ph.D., of the University of California, Berkeley School of Public Health; Elizabeth Holly, Ph.D., M.P.H., and Paige Bracci, Ph.D., M.P.H. (not pictured), both of the University of California, San Francisco; Susan Slager, Ph.D., of the Mayo Clinic College of Medicine; and Tongzhang Zheng, D.Sc., of Yale University School of Public Health.**



*Christine Skibola*

*Elizabeth Holly*

*Susan Slager*

*Tongzhang Zheng*

## Ovarian Cancer

### Elevated Anti-MUC1 Antibodies in Younger Women May Indicate Lower Ovarian Cancer Risk

Pinheiro SP, Hankinson SE, Tworoger SS, Rosner BA, McKolanis JR, Finn OJ, et al. Anti-MUC1 antibodies and ovarian cancer risk: prospective data from the Nurses' Health Studies. *Cancer Epidemiol Biomarkers Prev* 2010 Jun;19(6):1595-601.

**This research was funded in part by EGRP grants to Susan Hankinson, Sc.D., of Brigham and Women's Hospital, Harvard Medical School, and Harvard School of Public Health; and Daniel Cramer, M.D., Sc.D., of Brigham and Women's Hospital and Harvard School of Public Health.**



*Susan Hankinson*

*Daniel Cramer*

## Pancreatic Cancer

### *H. pylori* Colonization in Non-O Blood Groups Associated With Pancreatic Cancer Risk

Risch HA, Yu H, Lu L, Kidd MS. ABO blood group, *Helicobacter pylori* seropositivity, and risk of pancreatic cancer: a case-control study. *J Natl Cancer Inst* 2010 Apr 7;102(7):502-5.

**This research was funded by an EGRP grant to Harvey Risch, M.D., Ph.D., of Yale University School of Medicine.**



*Harvey Risch*

## Prostate Cancer

### Macroenvironmental Factors and Genotype May Predict Poor Prostate Cancer Outcomes

Rebbeck TR, Weber AL, Walker AH, Stefflova K, Tran TV, Spangler E, et al. Context-dependent effects of genome-wide association study genotypes and macroenvironment on time to biochemical (prostate specific antigen) failure after prostatectomy. *Cancer Epidemiol Biomarkers Prev* 2010 Sep;19(9):2115-23.

**This research was funded in part by an EGRP grant to Timothy Rebbeck, Ph.D., of the University of Pennsylvania.**



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