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NULL RESULTS IN BRIEF

Soft Drink and Juice Consumption and Renal Cell Carcinoma Incidence and Mortality in the European Prospective Investigation into Cancer and Nutrition

Genetically Inferred Telomere Length and Testicular Germ Cell Tumor Risk
Derek W. Brown, Qing Lan, Nathaniel Rothman, John Pluta, Kristian Almstrup, Marlene D. Dalgaard, Mark H. Greene, Tom Grotmol, Chey Loveday, Stephen M. Schwartz, Clare Turnbull, Fredrik Wiklund, Peter A. Kanetsky, Katherine L. Nathanson, and Katherine A. McGlynn; for the Testicular Cancer Consortium, and Mitchell J. Machiela

Pre-diagnostic Antibody Responses to *Fusobacterium nucleatum* Proteins Are Not Associated with Risk of Colorectal Cancer in a Large U.S. Consortium

RETRACEMENT

Retraction: Impact and Cost-effectiveness of Human Papillomavirus Vaccination Campaigns
Allison Portnoy, Nicole G. Campos, Stephen Sy, Emily A. Burger, Jamie Cohen, Catherine Regan, and Jane J. Kim

ABOUT THE COVER

The cover image is adapted from Figure 2 in the article, “The Effects of Lifetime Estrogen Exposure on Breast Epigenetic Age,” by Sehl and colleagues. The figure shows the relationship between age at menarche and age-adjusted measures of epigenetic age acceleration. Accelerated breast tissue aging is thought to contribute to an elevated incidence of breast cancer in younger women. Estrogen stimulation and cell cycling are thought to underlie this accelerated aging process. Sehl and colleagues investigated methylation-based estimates of biologic aging in normal breast tissue of healthy women donors, focusing analysis on Grim age, an epigenetic age measure whose acceleration in peripheral blood is associated with time to cancer. This is the one of the first and largest studies of normal breast tissue examining epigenetic age estimates. The study confirmed that epigenetic age acceleration in healthy breast is highest at earlier ages and identified factors associated with the degree of epigenetic age acceleration, including earlier age at menarche, and BMI. Epigenetic clock measures may help advance inquiry into the relationship between accelerated breast tissue aging and an elevated incidence of breast cancer in younger women. For more information, see the article beginning on page 1241.
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