<table>
<thead>
<tr>
<th>Highlights of This Issue</th>
<th>479</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CEBP SERIES: EPIDEMIOLOGY IN THE 21ST CENTURY</strong></td>
<td></td>
</tr>
</tbody>
</table>
| 481 | Cultivating Cohort Studies for Observational Translational Research  
David F. Ransohoff |
| 485 | Bridging the Gap between Biologic, Individual, and Macroenvironmental Factors in Cancer: A Multilevel Approach  
Shannon M. Lynch and Timothy R. Rebbeck |
| 496 | Provocative Questions in Cancer Epidemiology in a Time of Scientific Innovation and Budgetary Constraints  
Tram Kim Lam, Sheri D. Schully, Scott D. Rogers, Rachel Benkeser, Britt Reid, and Muin J. Khoury |
| 501 | A Review of NCI's Extramural Grant Portfolio: Identifying Opportunities for Future Research in Genes and Environment in Cancer  
Armen A. Ghazarian, Naoko I. Simonds, Kelly Bennett, Camilla B. Pimentel, Gary L. Ellison, Elizabeth M. Gillanders, Sheri D. Schully, and Leah E. Mechanic |
| 508 | Transforming Epidemiology for 21st Century Medicine and Public Health  
| 518 | **CEBP FOCUS: CANCER PRECURSOR LESIONS**  
**Why Precursors Matter**  
Neil E. Caporaso |
| 521 | Precursors in Cancer Epidemiology: Aligning Definition and Function  
Sholom Wacholder |
| 528 | Dysplastic Nevi and Melanoma  
Alisa M. Goldstein and Margaret A. Tucker |
| 533 | Precursors to Lymphoproliferative Malignancies  
Lynn R. Goldin, Mary L. McMaster, and Neil E. Caporaso |
| 540 | Squamous Dysplasia—The Precursor Lesion for Esophageal Squamous Cell Carcinoma  
Philip R. Taylor, Christian C. Abnet, and Sanford M. Dawsey |
| 553 | Human Papillomavirus Infection and the Multistage Carcinogenesis of Cervical Cancer  
Mark Schiffman and Nicolas Wentzensen |
| 561 | **CEBP ANNUAL REPORT**  
Cancer Survivors in the United States: Prevalence across the Survivorship Trajectory and Implications for Care  
Janet S. de Moor, Angela B. Mariotto, Carla Farry, Catherine M. Allano, Lynne Padgett, Erin E. Kent, Laura Forsythe, Steve Scoppa, Mark Hachey, and Julia H. Rowland |
| 571 | **RESEARCH ARTICLES**  
A Novel Serum Metabolomics-Based Diagnostic Approach to Pancreatic Cancer  
| 580 | Cervical Cancer Screening Among Young Adult Women in the United States  
Katherine B. Roland, Vicki B. Benard, Ashwin Soman, Nancy Breen, Deanna Kepka, and Mona Saraiya |
Relationship of Early-Onset Baldness to Prostate Cancer in African-American Men
Charnita Zeigler-Johnson, Knashawn H. Morales, Elaine Spangler, Bao-Li Chang, and Timothy R. Rebbeck

Using Genetic Proxies for Lifecourse Sun Exposure to Assess the Causal Relationship of Sun Exposure with Circulating Vitamin D and Prostate Cancer Risk
Carolina Bonilla, Rebecca Gilbert, John P. Kemp, Nicholas J. Timpson, David M. Evans, Jenny L. Donovan, Freddie C. Hamdy, David E. Neal, William D. Fraser, George Davey Smith, Sarah J. Lewis, Mark Lathrop, and Richard M. Martin

Melanoma Genetic Testing, Counseling, and Adherence to Skin Cancer Prevention and Detection Behaviors
Karen Glanz, Kathryn Volpicelli, Peter A. Kanetsky, Michael E. Ming, Lynn M. Schuchter, Christopher Jepson, Susan M. Domchek, and Katrina Armstrong

Time to First Cigarette and 4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanol (NNAL) Levels in Adult Smokers; National Health and Nutrition Examination Survey (NHANES), 2007–2010
Steven A. Branstetter and Joshua E. Muscat

Drinking Water Arsenic in Northern Chile: High Cancer Risks 40 Years after Exposure Cessation
Craig M. Steinmaus, Catterina Ferreccio, Johanna Acevedo Romo, Yan Yuan, Sandra Cortes, Guillermo Marshall, Lee E. Moore, John R. Balmes, Jane Liaw, Todd Golden, and Allan H. Smith

Metabolomics in Epidemiology: Sources of Variability in Metabolite Measurements and Implications
Joshua N. Sampson, Simina M. Boca, Xiao Ou Shu, Rachael Z. Stolzenberg-Solomon, Charles E. Matthews, Ann W. Hsing, Yu Ting Tan, Bu-Tian Ji, Wong-Ho Chow, Quyin Cai, Da Ke Liu, Gong Yang, Yong Bing Xiang, Wei Zheng, Rashmi Sinha, Amanda J. Cross, and Steven C. Moore

Sociodemographic Inequalities in Sexual Activity and Cervical Cancer Screening: Implications for the Success of Human Papillomavirus Vaccination
Mélanie Drolet, Marie-Claude Boily, Christina Greenaway, Shelley L. Deeks, Caty Blanchette, Jean-François Laprise, and Marc Brison

Acrylamide Hemoglobin Adduct Levels and Ovarian Cancer Risk: A Nested Case-Control Study
Jing Xie, Kathryn L. Terry, Elizabhet M. Poole, Kathryn M. Wilson, Bernard A. Rosner, Walter C. Willett, Hubert W. Vesper, and Shelley S. Tworoger

Hay Fever and Asthma as Markers of Atopic Immune Response and Risk of Colorectal Cancer in Three Large Cohort Studies
Eric J. Jacobs, Susan M. Gapstur, Christina C. Newton, Michelle C. Turner, and Peter T. Campbell

Dairy Intakes in Older Girls and Risk of Benign Breast Disease in Young Women
Catherine S. Berkey, Walter C. Willett, Rulla M. Tamimi, Bernard Rosner, A. Lindsay Frazier, and Graham A. Colditz

HOXB13 Mutation and Prostate Cancer: Studies of Siblings and Aggressive Disease
John S. Witte, Joel Mefford, Sarah J. Plummer, Jinghua Liu, Iona Cheng, Eric A. Klein, Benjamin A. Rybicki, and Graham Casey

Reproductive, Lifestyle, and Anthropometric Risk Factors for Cancer in Elderly Women
Jenny N. Poynter, Maki Inoue-Choi, Julie A. Ross, David R. Jacobs Jr, and Kimberly Robien

Genetic Variation in the Vitamin D Pathway in Relation to Risk of Prostate Cancer—Results from the Breast and Prostate Cancer Cohort Consortium

Dietary Fat, Fatty Acids, and Risk of Prostate Cancer in the NIH-AARP Diet and Health Study
Colleen Pelsor, Alison M. Mondul, Albert R. Hollenbeck, and Yikyung Park
The Ability of Plasma Cotinine to Predict Nicotine and Carcinogen Exposure is Altered by Differences in CYP2A6: the Influence of Genetics, Race, and Sex
Andy Z.X. Zhu, Caroline C. Renner, Dorothy K. Hatsukami, Gary E. Swan, Caryn Lerman, Neal L. Benowitz, and Rachel F. Tyndale

Human Papillomavirus Load in Eyebrow Hair Follicles and Risk of Cutaneous Squamous Cell Carcinoma

Prevalence and Healthcare Actions of Women in a Large Health System with a Family History Meeting the 2005 USPSTF Recommendation for BRCA Genetic Counseling Referral
Cecelia A. Bellcross, Steven Leadbetter, Sharon Hensley Alford, and Lucy A. Peipins

Association of AMP-Activated Protein Kinase with Risk and Progression of Non–Hodgkin Lymphoma
Aaron E. Hoffman, Kathryn Demanelis, Alan Fu, Tongzhang Zheng, and Yong Zhu