

## EDITORIALS

- 577** Tonsillectomy and Risk of Oropharyngeal Cancer: Implications for Research and Prevention  
Anil K. Chaturvedi  
*See related article, p. 583*
- 580** Role of Prophylactic Bilateral Tonsillectomy as a Cancer Preventive Strategy  
Krzysztof Misiukiewicz and Marshall Posner  
*See related article, p. 583*

## RESEARCH ARTICLES

- 583** The Impact of Tonsillectomy upon the Risk of Oropharyngeal Carcinoma Diagnosis and Prognosis in the Danish Cancer Registry  
Carole Fakhry, Klaus K. Andersen, Jane Christensen, Nishant Agrawal, and David W. Eisele  
*See related articles, p. 577 and p. 580*
- 590** Association between Serum Phospholipid Fatty Acids and Intraprostatic Inflammation in the Placebo Arm of the Prostate Cancer Prevention Trial  
Sarah H. Nash, Jeannette M. Schenk, Alan R. Kristal, Phillis J. Goodman, M. Scott Lucia, Howard L. Parnes, Ian M. Thompson, Scott M. Lippman, Xiaoling Song, Bora Gurel, Angelo De Marzo, and Elizabeth A. Platz
- 597** Effect of Metformin, Rapamycin, and Their Combination on Growth and Progression of Prostate Tumors in HiMyc Mice  
Achinto Saha, Jorge Blando, Lisa Tremmel, and John DiGiovanni
- 607** Mitochondrial DNA Content as Risk Factor for Bladder Cancer and Its Association with Mitochondrial DNA Polymorphisms  
Stephen B. Williams, Yuanqing Ye, Maosheng Huang, David W. Chang, Ashish M. Kamat, Xia Pu, Colin P. Dinney, and Xifeng Wu
- 614** TFF2–CXCR4 Axis Is Associated with BRAF V600E Colon Cancer  
Manish K. Gala, Thomas Austin, Shuji Ogino, and Andrew T. Chan
- 620** Adulthood Weight Change and Risk of Colorectal Cancer in the Nurses' Health Study and Health Professionals Follow-up Study  
Mingyang Song, Frank B. Hu, Donna Spiegelman, Andrew T. Chan, Kana Wu, Shuji Ogino, Charles S. Fuchs, Walter C. Willett, and Edward L. Giovannucci
- 628** Effect of Vitamin D<sub>3</sub> Supplementation in Combination with Weight Loss on Inflammatory Biomarkers in Postmenopausal Women: A Randomized Controlled Trial  
Catherine Duggan, Jean de Dieu Tapsoba, Caitlin Mason, Ikuyo Imayama, Larissa Korde, Ching-Yun Wang, and Anne McTiernan
- 636** Increasing Efforts to Reduce Cervical Cancer through State-Level Comprehensive Cancer Control Planning  
Beth E. Meyerson, Gregory D. Zimet, Gurprit S. Multani, Caleb Levell, Carrie A. Lawrence, and Jennifer S. Smith
- 642** *In Vivo* Antineoplastic Effects of the NSAID Sulindac in an Oral Carcinogenesis Model  
Konstantinos Katoumas, Nikolaos Nikitakis, Despina Perrea, Ismene Dontas, and Alexandra Sklavounou
- 650** Genetic Manipulation of Homologous Recombination *In Vivo* Attenuates Intestinal Tumorigenesis  
Michael A. McIlhatton, Kevin Murnan, Daniel Carson, Gregory P. Boivin, Carlo M. Croce, and Joanna Groden

# Table of Contents

## ABOUT THE COVER

Disruption of DNA repair capacity is associated with cancer susceptibility, but it remains unclear if the inherent tumor phenotypes of DNA repair deficiency syndromes can be regulated by manipulating DNA repair pathways. BLM is a structure-specific helicase which functions in many aspects of DNA homeostasis. Increasing *BLM* dosage *in vivo* in the pink-eyed unstable ( $p^{un}$ ) mouse model lowers endogenous levels of homologous recombination (HR). Transgenic expression of BLM reduces pigmented eye-spots that spontaneously develop in mouse retinal pigment epithelial (RPE) cells. In  $p^{un}$  mice, eye-spots arise because of a characteristic intra-chromosomal, HR-dependent deletion within the mouse *p* gene which restores melanin production in the otherwise transparent cells of the RPE. Thus, absolute numbers of RPE eye-spots represent an *in vivo* read-out of HR levels. The cover illustration depicts a clone of (five) pigmented cells in a RPE whole mount, originating from a single reversion event. Brown melanosomes are restricted to the cytoplasm, defining cell nuclei as clear regions. For more information on the effects of transgenic BLM expression on the intestinal tumor burden and pathology of  $Apc^{Min/+}$  mouse models of familial adenomatous polyposis coli, see the article by McIlhatton et al. (beginning on page 650).



# Cancer Prevention Research

8 (7)

*Cancer Prev Res* 2015;8:577-656.

**Updated version** Access the most recent version of this article at:  
<http://cancerpreventionresearch.aacrjournals.org/content/8/7>

**E-mail alerts** [Sign up to receive free email-alerts](#) related to this article or journal.

**Reprints and Subscriptions** To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at [pubs@aacr.org](mailto:pubs@aacr.org).

**Permissions** To request permission to re-use all or part of this article, use this link <http://cancerpreventionresearch.aacrjournals.org/content/8/7>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.