

## RESEARCH ARTICLES

- 475** **Nrf2 Activation Protects against Solar-Simulated Ultraviolet Radiation in Mice and Humans**  
Elena V. Knatko, Sally H. Ibbotson, Ying Zhang, Maureen Higgins, Jed W. Fahey, Paul Talalay, Robert S. Dawe, James Ferguson, Jeffrey T.-J. Huang, Rosemary Clarke, Suqing Zheng, Akira Saito, Sukirti Kalra, Andrea L. Benedict, Tadashi Honda, Charlotte M. Proby, and Alben T. Dinkova-Kostova
- 487** **UCP2 Knockout Suppresses Mouse Skin Carcinogenesis**  
Wenjuan Li, Chunjing Zhang, Kasey Jackson, Xingui Shen, Rong Jin, Guohong Li, Christopher G. Kevil, Xin Gu, Runhua Shi, and Yunfeng Zhao
- 492** ***Ink4a/Arf*-Dependent Loss of Parietal Cells Induced by Oxidative Stress Promotes CD44-Dependent Gastric Tumorigenesis**  
 Ryo Seishima, Takeyuki Wada, Kenji Tsuchihashi, Shogo Okazaki, Momoko Yoshikawa, Hiroko Oshima, Masanobu Oshima, Toshiro Sato, Hirotoshi Hasegawa, Yuko Kitagawa, James R. Goldenring, Hideyuki Saya, and Osamu Nagano
- 502** **Five-Year Cervical (Pre)Cancer Risk of Women Screened by HPV and Cytology Testing**  
Margot H. Uijterwaal, Nicole J. Polman, Folkert J. Van Kemenade, Sander Van Den Haselkamp, Birgit I. Witte, Dorien Rijkaart, Johannes Berkhof, Peter J.F. Snijders, and Chris J.L.M. Meijer
- 509** **3,6-Dihydroxyflavone Suppresses Breast Carcinogenesis by Epigenetically Regulating miR-34a and miR-21**  
Xiaoli Peng, Hui Chang, Yeyun Gu, Junli Chen, Long Yi, Qi Xie, Jundong Zhu, Qianyong Zhang, and Mantian Mi
- 518** **Effects of Metformin, Bufornin, and Phenformin on the Post-Initiation Stage of Chemically Induced Mammary Carcinogenesis in the Rat**  
Zongjian Zhu, Weiqin Jiang, Matthew D. Thompson, Dimas Echeverria, John N. McGinley, and Henry J. Thompson
- 528** **Anti-Müllerian Hormone Concentrations in Premenopausal Women and Breast Cancer Risk**  
Hazel B. Nichols, Donna D. Baird, Frank Z. Stanczyk, Anne Z. Steiner, Melissa A. Troester, Kristina W. Whitworth, and Dale P. Sandler
- 535** **High-Density Lipoprotein-Cholesterol, Daily Estradiol and Progesterone, and Mammographic Density Phenotypes in Premenopausal Women**  
Vidar G. Flote, Hanne Frydenberg, Giske Ursin, Anita Iversen, Morten W. Fagerland, Peter T. Ellison, Erik A. Wist, Thore Egeland, Tom Wilsgaard, Anne McTiernan, Anne-Sofie Furberg, and Inger Thune
- 545** **Dietary Patterns after Prostate Cancer Diagnosis in Relation to Disease-Specific and Total Mortality**  
Meng Yang, Stacey A. Kenfield, Erin L. Van Blarigan, Julie L. Batista, Howard D. Sesso, Jing Ma, Meir J. Stampfer, and Jorge E. Chavarro
- 552** **Cucurbitacin B Alters the Expression of Tumor-Related Genes by Epigenetic Modifications in NSCLC and Inhibits NNK-Induced Lung Tumorigenesis**  
Samriddhi Shukla, Sajid Khan, Sudhir Kumar, Sonam Sinha, Mohd. Farhan, Himangsu K. Bora, Rakesh Maurya, and Syed Musthapa Meeran
- 563** **Pilot Study on the Bioactivity of Vitamin D in the Skin after Oral Supplementation**  
Clara Curiel-Lewandrowski, Jean Y. Tang, Janine G. Einspahr, Yira Bermudez, Chiu Hsieh Hsu, Melika Rezaee, Alex H. Lee, Joseph Tangrea, Howard L. Parnes, David S. Alberts, and H.-H. Sherry Chow
- 570** **LLPi: Liverpool Lung Project Risk Prediction Model for Lung Cancer Incidence**  
Michael W. Marcus, Ying Chen, Olaide Y. Raji, Stephen W. Duffy, and John K. Field

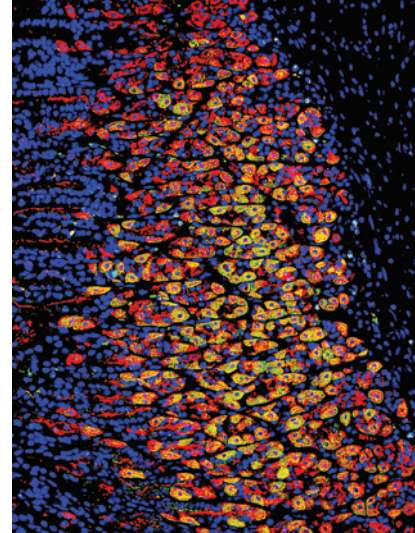
 AC icon indicates Author Choice

For more information please visit [www.aacrjournals.org](http://www.aacrjournals.org)

# Table of Contents

## ABOUT THE COVER

Chronic inflammation induces histopathologic progression of the stomach epithelium leading to the development of metaplasia followed by gastric adenocarcinoma. Inflammation of the gastric epithelium, which produces high levels of reactive oxygen species (ROS), results in a gradual loss of parietal cells and their replacement with proliferative metaplastic cells, suggesting that the inflammation-associated ROS plays a role in the disruption of homeostasis of the gastric epithelium. However, the role of ROS and its downstream signaling in gastric carcinogenesis has remained unknown. The cover illustration depicts the phosphorylated (activated) form of p38<sup>MAPK</sup> (green) as well as parietal cells (H<sup>+</sup>,K<sup>+</sup>-ATPase; red) in normal stomach tissue exposed to the hydrogen peroxide in vitro (nuclei are counterstained in blue). As shown in the yellow signal (red and green overlay), the oxidative stress-dependent activation of p38<sup>MAPK</sup> is triggered selectively in parietal cells. For more information on the potential mechanisms underlying the oxidative stress-dependent parietal cells loss and consequent gastric carcinogenesis, see the article by Seishima et al. (beginning on page 492).



# Cancer Prevention Research

8 (6)

*Cancer Prev Res* 2015;8:475-575.

**Updated version** Access the most recent version of this article at:  
<http://cancerpreventionresearch.aacrjournals.org/content/8/6>

**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/8/6>. Click on "Request Permissions" which will take you to the Copyright Clearance Center's (CCC) Rightslink site.