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, Sukirii Kalra, Andrea L. Benedict, Tadashi Honda, Charlotte M. Proby, and Albena T. Dinkova-Kostova

487 UCP2 Knockout Suppresses Mouse Skin Carcinogenesis
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492 Ink4a/Arf-Dependent Loss of Parietal Cells Induced by Oxidative Stress Promotes CD44-Dependent Gastric Tumorigenesis
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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 Berkhoef, Peter J.F. Snijders, and Chris J.M. Meijer

509 3,6-Dihydroxyflavone Suppresses Breast Carcinogenesis by Epigenetically Regulating miR-34a and miR-21
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518 Effects of Metformin, Buforinm, and Phenformin on the Post-Initiation Stage of Chemically Induced Mammary Carcinogenesis in the Rat
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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 Progestosterone, and Mammographic Density Phenotypes in Premenopausal Women
Vidar G. Fote, Hanne Brydenberg, Giske Ursin, Anita Iversen, Morten W. Fagerland, Peter T. Ellison, Erik A. Wist, Thor 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
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552 Cucurbitacin B Alters the Expression of Tumor-Related Genes by Epigenetic Modifications in NSCLC and Inhibits NNK-Induced Lung Tumorigenesis
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563 Pilot Study on the Bioactivity of Vitamin D in the Skin after Oral Supplementation

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
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 p38MAPK (green) as well as parietal cells (H^+K^-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 p38MAPK 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).