


EDITORIAL

- 551** Are You What You Eat or What Your Mother Ate or Both?
Stephen J. Freedland
See related article, p. 553

RESEARCH ARTICLES

- 553** Early Exposure to a High Fat/High Sugar Diet Increases the Mammary Stem Cell Compartment and Mammary Tumor Risk in Female Mice
Isabel U. Lambertz, Linjie Luo, Thomas R. Berton, Scott L. Schwartz, Stephen D. Hursting, Claudio J. Conti, and Robin Fuchs-Young
See related editorial, p. 551
- 563** Prospective Evaluation of Multimodal Optical Imaging with Automated Image Analysis to Detect Oral Neoplasia *In Vivo*
Timothy Quang, Emily Q. Tran, Richard A. Schwarz, Michelle D. Williams, Nadarajah Vigneswaran, Ann M. Gillenwater, and Rebecca Richards-Kortum
- 571** Effect of Green Tea Supplements on Liver Enzyme Elevation: Results from a Randomized Intervention Study in the United States
Zheming Yu, Hamed Samavat, Allison M. Dostal, Renwei Wang, Carolyn J. Torkelson, Chung S. Yang, Lesley M. Butler, Thomas W. Kensler, Anna H. Wu, Mindy S. Kurzer, and Jian-Min Yuan

- 580** *In Silico* Systems Biology Analysis of Variants of Uncertain Significance in Lynch Syndrome Supports the Prioritization of Functional Molecular Validation
Ester Borrás, Kyle Chang, Mala Pande, Amanda Cuddy, Jennifer L. Bosch, Sarah A. Bannon, Maureen E. Mork, Miguel A. Rodríguez-Bigas, Melissa W. Taggart, Patrick M. Lynch, Y. Nancy You, and Eduardo Vilar

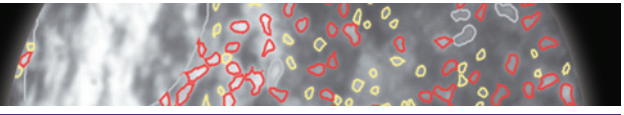
- 588**  Tobacco-Specific Carcinogens Induce Hypermethylation, DNA Adducts, and DNA Damage in Bladder Cancer
Feng Jin, Jose Thaiparambil, Sri Ramya Donepudi, Venkatrao Vantaku, Danthasinghe Waduge Badrajee Piyaathna, Suman Maity, Rashmi Krishnapuram, Vasanta Putluri, Franklin Gu, Preeti Purwaha, Salil Kumar Bhowmik, Chandrashekar R. Ambati, Friedrich-Carl von Rundstedt, Florian Roghmann, Sebastian Berg, Joachim Noldus, Kimal Rajapakshe, Daniel Gödde, Stephan Roth, Stephan Störkel, Stephan Degener, George Michailidis, Benny Abraham Kaiparettu, Balasubramanyam Karanam, Martha K. Terris, Shyam M. Kavuri, Seth P. Lerner, Farrah Kheradmand, Cristian Coarfa, Arun Sreekumar, Yair Lotan, Randa El-Zein, and Nagireddy Putluri

- 598** Topically Applied Carvedilol Attenuates Solar Ultraviolet Radiation Induced Skin Carcinogenesis
Kevin M. Huang, Sherry Liang, Steven Yeung, Etuajie Oiyemhonlan, Kristan H. Cleveland, Cyrus Parsa, Robert Orlando, Frank L. Meyskens Jr, Bradley T. Andresen, and Ying Huang

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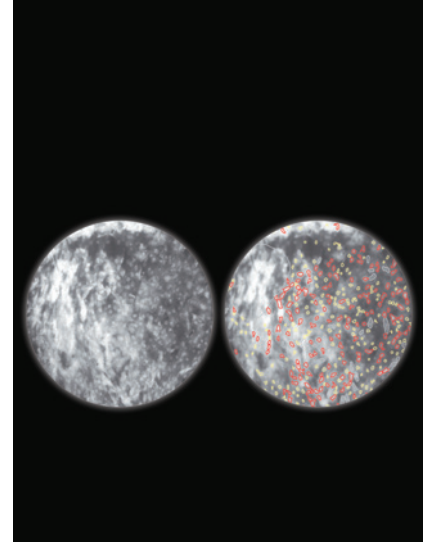
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Table of Contents



ABOUT THE COVER

The five-year survival rate for patients with oral cancer remains low, in part because diagnosis often occurs at a late stage. The standard of care for evaluation of oral lesions—visual examination under white light illumination—is strongly dependent on the expertise and experience of the clinician. There is a need for tools that can aid clinicians by facilitating early, objective identification of oral neoplasia. Multi-modal optical imaging has the potential to help identify oral neoplasia in real time. Implementation of automated image analysis can improve the accessibility and utility of adjunctive optical imaging technologies. The cover shows a micrograph of an image (circle at left) acquired *in vivo* from an oral lesion site using a fiberoptic fluorescence microscope; it also shows the corresponding processed image (circle at right) that was automatically generated in real time at the point-of-care. The field of view is 720 microns in diameter and the bright dots are cell nuclei. Nuclei classified as abnormal by the processing algorithm are outlined in red, while nuclei classified as normal are outlined in yellow. The automated algorithm gave an overall prediction of "neoplastic" for this oral site; subsequent pathology results indicated severe dysplasia. See the article by Quang et al. (beginning on page 563) for more information.



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