### PERSPECTIVE

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### REVIEWS

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**Personalized Immune-Interception of Cancer and the Battle of Two Adaptive Systems—When Is the Time Right?**
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### RESEARCH ARTICLES

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**Prediagnostic Leptin, Adiponectin, C-Reactive Protein, and the Risk of Postmenopausal Breast Cancer**
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**MicroRNA Expression Signatures during Malignant Progression from Barrett's Esophagus to Esophageal Adenocarcinoma**
Xifeng Wu, Jaffer A. Ajani, Jian Gu, David W. Chang, WeiQi Tan, Michelle A.T. Hildebrandt, Maosheng Huang, Kenneth K. Wang, and Ernest Hawk

**Cyclooxygenase-2 Generates the Endogenous Mutagen trans-4-Hydroxy-2-nonenal in Enterococcus faecalis–Infected Macrophages**
Xingmin Wang, Toby D. Allen, Yonghong Yang, Danny R. Moore, and Mark M. Huycke

**Gene Expression Changes in Adipose Tissue with Diet- and/or Exercise-Induced Weight Loss**
Kristin L. Campbell, Karen E. Foster-Schubert, Karen W. Makar, Mario Kratz, Derek Hagman, Ellen A. Schur, Nina Habermann, Marc Horton, Clare Abbenhardt, Ling-Yu Kuan, Liren Xiao, Jerry Davison, Martin Morgan, Ching-Yun Wang, Catherine Duggan, Anne McTiernan, and Cornelia M. Ulrich

**Suppression of Prostate Epithelial Proliferation and Intraprostatic Progrowth Signaling in Transgenic Mice by a New Energy Restriction-Mimetic Agent**
Lisa D. Berman-Booty, Po-Chen Chu, Jennifer M. Thomas-Ahner, Brad Bolon, Dasheng Wang, Tiffany Yang, Steven K. Clinton, Samuel K. Kulp, and Ching-Shih Chen

**Bioactive Grape Proanthocyanidins Enhance Immune Reactivity in UV-Irradiated Skin through Functional Activation of Dendritic Cells in Mice**
Mudit Vaid, Tripti Singh, Ram Prasad, Craig A. Elmets, Hui Xu, and Santosh K. Katiyar
ABOUT THE COVER

Infection of macrophages by the human intestinal commensal Enterococcus faecalis generates DNA damage and chromosomal instability in mammalian cells and is mediated, in part, by trans-4-hydroxy-2-nonenal (4-HNE). In this study, the role of cyclooxygenase (COX) and lipoxygenase (LOX) in producing this reactive aldehyde was explored using E. faecalis-infected macrophages and interleukin-10 knockout mice colonized with this commensal. The cover micrograph shows immunofluorescence staining of colon sections from II10−/− mice colonized with E. faecalis. There is focal 4-HNE-protein adduct (green) staining in macrophages (merged: yellow) and diffuse staining on colonic crypts (green). This was associated with increased staining for COX-2 in macrophages when compared to sham-colonized mice (not shown). DNA is counter-stained using DAPI (blue). These data show that E. faecalis can trigger macrophages to produce 4-HNE through COX-2 reinforcing the concept of COX-2 as a procarcinogenic enzyme capable of damaging DNA in target cells through bystander effects that contribute to colorectal carcinogenesis. See the article by Wang et al. (beginning on page 206) for more information.