Contents

PERSPECTIVE

1213 Skin Deep and Deeper: Multiple Pathways in Basal Cell Carcinogenesis
Craig D. Peacock and Charles M. Rudin
See article p. 1222

REVIEW

1217 Molecular Conversations and the Development of the Hair Follicle and Basal Cell Carcinoma
Pamela Jo Harris, Naoko Takebe, and S. Percy Ivy

RESEARCH ARTICLES

1222 Patched1 Inhibits Epidermal Progenitor Cell Expansion and Basal Cell Carcinoma Formation by Limiting Igfbp2 Activity
Rehan M. Villani, Christelle Adolphe, James Palmer, Michael J. Waters, and Brandon J. Wainwright
See perspective p. 1213

1235 Genetic Variations in the Sonic Hedgehog Pathway Affect Clinical Outcomes in Non–Muscle-Invasive Bladder Cancer

1246 Dietary Vitamin D Exposure Prevents Obesity-Induced Increase in Endometrial Cancer in Plen+/− Mice
Wei Yu, Mark Cline, Larry G. Maxwell, David Berrigan, Gustavo Rodriguez, Anni Warri, and Leena Hilakivi-Clarke

1259 Diet-Induced Obesity Accelerates Acute Lymphoblastic Leukemia Progression in Two Murine Models
Jason P. Yun, James W. Behan, Nora Heisterkamp, Anna Butturini, Lars Klemm, Lingyun Ji, John Groffen, Markus Münch, and Steven D. Mittelman

Chemoimmunotherapy Reduces the Progression of Multiple Myeloma in a Mouse Model
Amir Sharabi, Ayelet Laronne-Bar-On, Asher Meshorer, and Nechama Haran-Ghara

Loss of Inositol Polyphosphate 5-Phosphatase Is an Early Event in Development of Cutaneous Squamous Cell Carcinoma

A Dietary Tomato Supplement Prevents Prostate Cancer in TRAMP Mice
Tania Pannellini, Manuela Jezzi, Marcella Liberatore, Federica Sabatini, Stefano Iacobelli, Cosmo Rossi, Saverio Alberti, Carmine Di Ilio, Paola Vitaglione, Vincenzo Fogliano, and Mauro Piantelli

Transcriptional Attenuation in Colon Carcinoma Cells in Response to Butyrate
Maria C. Daroqui and Leonard H. Augenlicht

Colon Tumor Cell Growth–Inhibitory Activity of Sulindac Sulfide and Other Nonsteroidal Anti-Inflammatory Drugs Is Associated with Phosphodiesterase 5 Inhibition
Heather N. Tinsley, Bernard D. Gary, Jose Thaiarambil, Nan Li, Wenyun Lu, Yonghe Li, Yulia Y. Maxuikenko, Adam B. Keeton, and Gary A. Piazza

Prevention of Collitis-Associated Carcinogenesis with Infliximab
Yoon Jae Kim, Kyung Sook Hong, Jun Won Chung, Ju Hyun Kim, and Ki Baik Hahn

Association between C-Peptide Concentration and Prostate Cancer Incidence in the CLUE II Cohort Study
Gabriel Y. Lai, Kathy J. Helzlsouer, Sandra L. Clipp, Nader Rifai, and Elizabeth A. Platz
ABOUT THE COVER

The cover photograph shows cross sections of three hair follicles reflecting the excessive growth of hair-follicle cells in mice lacking Patched1 (Ptc1) gene activity in cells of the outer layer of the skin (K14Cre;Ptc1lox/lox mice). Cells in the outer layer of hair follicles always express keratin 14 protein (green), and only a small number of these cells normally express insulin-like growth factor binding protein 2 (IGFBP2; red). In Ptc1-null mice, however, all cells of the hair-follicle outer layer express IGFBP2; areas of overlapping expression of keratin 14 and IGFBP2 in these mice are shown in light yellow (nuclei are counterstained in blue). This increased expression of IGFBP2 is responsible for the excessive production of hair-follicle progenitor cells, which eventually leads to the development of basal cell carcinoma. See articles by Villani et al. (beginning on page 1222), Rudin and Peacock (beginning on page 1213), and Ivy (beginning on page 1217) for more information.