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6399  Highlights from Recent Cancer Literature

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6401  MicroRNAs and Metastasis: Little RNAs Go a Long Way
      Derek M. Dykxhoorn

6407  CD73: A Novel Target for Cancer Immunotherapy
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6412  Type 1 Insulin-like Growth Factor Receptor Translocates to the Nucleus of Human Tumor Cells
      Tamara Aleksic, Meenali M. Chitnis, Olga V. Perestenko, Shan Gao, Peter H. Thomas, Gareth D. Turner, Andrew S. Protheroe, Mark Howarth, and Valentine M. Macaulay

6420  A Cancer Detection Platform Which Measures Telomerase Activity from Live Circulating Tumor Cells Captured on a Microfilter
      Tong Xu, Bo Lu, Yu-Chong Tai, and Amir Goldkorn

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6427  Low-Field Magnetic Resonance Imaging to Visualize Chronic and Cycling Hypoxia in Tumor-Bearing Mice
      Hironobu Yasui, Shingo Matsumoto, Nallathamby Devasahayam, Jeeva P. Munasinghe, Rajani Choudhuri, Keita Saito, Sankaran Subramanian, James B. Mitchell, and Murali C. Krishna

6437  Glioblastoma-Specific Protein Interaction Network Identifies PP1A and CSK21 as Connecting Molecules between Cell Cycle–Associated Genes

6448  In silico Estimates of Tissue Components in Surgical Samples Based on Expression Profiling Data
      Yipeng Wang, Xiao-Qin Xia, Zhenyu Jia, Anne Sawyers, Huazhen Yao, Jessica Wang-Rodriquez, Dan Mercola, and Michael McClelland
The Histone Demethylase JMJ2B Is Regulated by Estrogen Receptor α and Hypoxia, and Is a Key Mediator of Estrogen Induced Growth
Jun Yang, Adrian M. Jubb, Luke Pike, Francesca M. Buffa, Helen Turley, Dilair Baban, Russell Leek, Kevin C. Gatter, Jiannis Ragoussis, and Adrian L. Harris

Precis: Findings provide a biological rationale to therapeutically target histone demethylases for breast cancer treatment.

Immunologic Consequences of Signal Transducers and Activators of Transcription 3 Activation in Human Squamous Cell Carcinoma
Emilia Albesiano, Meghan Davis, Alfred P. See, James E. Han, Michael Lim, Drew M. Pardoll, and Young Kim

Precis: Findings highlight the nodal role of STAT3 in activating immune evasion mechanisms erected by tumors, reinforcing interest in STAT3 targeting for cancer therapy.

Steroid Receptor Coactivator-3 Expression in Lung Cancer and Its Role in the Regulation of Cancer Cell Survival and Proliferation
Di Cai, David S. Shames, Maria Gabriela Raso, Yang Xie, Young H. Kim, Jonathan R. Pollack, Luc Girard, James P. Sullivan, Boming Gao, Michael Peyton, Meera Nanjundan, Lauren Byers, John Heymach, Gordon Mills, Adi F. Gazdar, and John D. Minna

Precis: A histone acetyltransferase and nuclear hormone receptor is implicated in lung cancer maintenance and resistance to EGFR inhibitors.

Interaction of TAp73 and Breast Cancer–Associated Gene 3 Enhances the Sensitivity of Cervical Cancer Cells in Response to Irradiation-Induced Apoptosis
Thomas Ho-Yin Leung and Hextan Yuen-Sheung Ngan

Precis: Findings define a mechanism through which transcriptionally active isoforms of the p53 homolog p73 promote cancer radiosensitivity.

Occupational Trichloroethylene Exposure and Renal Carcinoma Risk: Evidence of Genetic Susceptibility by Reductive Metabolism Gene Variants
Lee E. Moore, Paolo Boffetta, Sara Karami, Paul Brennan, Patricia S. Stewart, Rayjean Hung, David Zaridze, Vsevolod Matveev, Vladimir Janout, Helena Kollarova, Vladimir Bencko, Marie Navratilova, Neolina Szeszenia-Dabrowska, Dana Mates, Jan Gromiec, Ivana Holcatova, Maria Merino, Stephen Chanock, Wong-Ho Chow, and Nathaniel Rothman

Precis: Findings establish that renal cancer risk from exposure to a suspected carcinogen is particularly high in genetically susceptible individuals.
6537  Anti–Placental Growth Factor Reduces Bone Metastasis by Blocking Tumor Cell Engraftment and Osteoclast Differentiation
Lieve Coenegrachts, Christa Maes, Sophie Torrekens, Riet Van Looveren, Massimiliano Mazzone, Theresa A. Guise, Roger Bouillon, Jean-Marie Stassen, Peter Carmeliet, and Geert Carmeliet
Précis: Preclinical findings indicate a key role for placental growth factor in promoting bone metastasis, suggesting an opportunity for antibody-based adjuvant therapy.

6548  The Human WRN and BLM RecQ Helicases Differentially Regulate Cell Proliferation and Survival after Chemotherapeutic DNA Damage
Frances J. Mao, Julia M. Sidorova, Julia M. Lauper, Mary J. Emond, and Raymond J. Monnat
Précis: Study reveals how different RecQ DNA helicases modulate the response to distinct chemotherapeutic agents, and may have potential to serve as biomarkers of tumor-specific chemotherapeutic sensitivity.

6556  Antitumor Effect after Radiofrequency Ablation of Murine Hepatoma Is Augmented by an Active Variant of CC Chemokine Ligand 3/Macrophage Inflammatory Protein-1α
Noriho Iida, Yasunari Nakamoto, Tomohisa Baba, Hidetoshi Nakagawa, Eishiro Mizukoshi, Makoto Naito, Naofumi Mukaida, and Shuichi Kaneko
Précis: Findings illustrate the potential of chemokine-based immunotherapy to cooperate with radioablative therapies in clinic.

6566  Metastasis-Associated Protein 1 Short Form Stimulates Wnt1 Pathway in Mammary Epithelial and Cancer Cells
Rakesh Kumar, Seetharaman Balasenthil, Suresh K. Rayala, Aysegul A. Sahin, and Kazufumi Ohshiro
Précis: An important metastasis driver acts as an upstream regulator of WNT signaling.

6577  Mitochondrial Chaperone Trap1 and the Calcium Binding Protein Sorcin Interact and Protect Cells against Apoptosis Induced by Antibiotic Agents
Matteo Landriscina, Gabriella Laudiero, Francesca Maddalena, Maria Rosaria Amoroso, Annamaria Piscazzi, Flora Cozzolino, Maria Monti, Corrado Garbi, Alberto Fersini, Piero Pucci, and Franca Esposito
Précis: A novel mechanism of apoptosis resistance is described that may contribute to chemoresistance in colorectal carcinoma cells.

6587  Epigenetic Silencing of miR-137 Is an Early Event in Colorectal Carcinogenesis
Francesc Balaguer, Alexander Link, Juan Jose Lozano, Miriam Cuatrecasas, Takeshi Nagasaka, C. Richard Boland, and Ajay Goel
Précis: Findings identify a tumor suppressive microRNA with potential applications as a disease biomarker in colorectal cancer.

6598  Tumor and Stem Cell Biology
6609  Metastasis-Associated Protein 1 Short Form Stimulates Wnt1 Pathway in Mammary Epithelial and Cancer Cells
Rakesh Kumar, Seetharaman Balasenthil, Suresh K. Rayala, Aysegul A. Sahin, and Kazufumi Ohshiro
Précis: An important metastasis driver acts as an upstream regulator of WNT signaling.

6619  Bcl9/Bcl9l Are Critical for Wnt-Mediated Regulation of Stem Cell Traits in Colon Epithelium and Adenocarcinomas
Jürgen Deka, Norbert Wiedermann, Pascale Anderle, Fabienne Murphy-Seiler, Jennyfer Bultinck, Sven Eyckerman, Jean-Christophe Stehle, Sylvie André, Nathalie Vilain, Olivier Zériah, Sylvie Robine, Mauro Delorenzi, Konrad Basler, and Michel Aguet
Précis: A Wnt effector homologous to a developmental segment polarity gene in flies specifically mediates EMT and stem cell properties controlled by Wnt in cancer.
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<td>Dvl2 Promotes Intestinal Length and Neoplasia in the ApcMin Mouse Model for Colorectal Cancer</td>
<td>Ciara Metcalfe, Ashraf E.K. Ibrahim, Michael Graeb, Marc de la Roche, Thomas Schwarz-Romond, Marc Fiedler, Douglas J. Winton, Anthony Corfield, and Mariann Bienz</td>
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<td><strong>Précis:</strong> A potential positive modifier of colorectal cancer may act to coordinately promote beta-catenin and mTOR signaling.</td>
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<td>Metastasis-Associated Protein 1 and Its Short Form Variant Stimulates Wnt1 Transcription through Promoting Its Derepression from Six3 Corepressor</td>
<td>Rakesh Kumar, Seetharaman Balasenthil, Bramanandam Manavathi, Suresh K. Rayala, and Suresh B. Pakala</td>
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<td>Intratumoral Localization of Aromatase and Interaction between Stromal and Parenchymal Cells in the Non–Small Cell Lung Carcinoma Microenvironment</td>
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<td>Yongping Shao and Andrew E. Aplin</td>
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ABOUT THE COVER

Representative images from an immunohistochemical analysis of Six3 (upper panels) and β-catenin (lower panels) in virgin mammary glands from 12-week-old wild-type and MTA1/MTA1s −/− mice. Genetic depletion of MTA1/MTA1s leads to increased expression of Six3, a corepressor of Wnt transcription, and consequently, to downregulation of β-catenin in mammary glands. For details, see the article by Kumar and colleagues on page 6649 of this issue.