<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>4609</td>
<td>Highlights from Recent Cancer Literature</td>
<td></td>
</tr>
<tr>
<td>4611</td>
<td>Androgen Receptor on the Move: Boarding the Microtubule Expressway to the Nucleus</td>
<td>Maria Thadani-Mulero, David M. Nanus, and Paraskevi Giannakakou</td>
</tr>
<tr>
<td>4616</td>
<td>Role of the Human High-Affinity Copper Transporter in Copper Homeostasis Regulation and Cisplatin Sensitivity in Cancer Chemotherapy</td>
<td>Macus Tien Kuo, Siqing Fu, Niramon Savaraj, and Helen H.W. Chen</td>
</tr>
<tr>
<td>4622</td>
<td>Real-time Monitoring of In Vivo Acute Necrotic Cancer Cell Death Induced by Near Infrared Photoimmunotherapy Using Fluorescence Lifetime Imaging</td>
<td>Takahito Nakajima, Kohei Sano, Makoto Mitsu nag a, Peter L. Choyke, and Hisataka Kobayashi</td>
</tr>
<tr>
<td>4629</td>
<td>Hypoxia-Inducible miR-210 Regulates the Susceptibility of Tumor Cells to Lysis by Cytotoxic T Cells</td>
<td>Muhammad Zaeem Noman, Stéphanie Buart, Pedro Romero, Sami Ketari, Bassam Janji, Bernard Mari, Fathia Mami-Chouaib, and Salem Chouaib</td>
</tr>
<tr>
<td>4631</td>
<td>NFAT1 Supports Tumor-induced Anergy of CD4+ T Cells</td>
<td>Brian T. Abe, Daniel S. Shin, Enric Mocholi, and Fernando Macian</td>
</tr>
<tr>
<td>4642</td>
<td>Platelets and P-Selectin Control Tumor Cell Metastasis in an Organ-Specific Manner and Independently of NK Cells</td>
<td>Lucy A. Coupland, Beng H. Chong, and Christopher R. Parish</td>
</tr>
<tr>
<td>4649</td>
<td>Hypoxia-Inducible miR-210 Regulates the Susceptibility of Tumor Cells to Lysis by Cytotoxic T Cells</td>
<td>Muhammad Zaeem Noman, Stéphanie Buart, Pedro Romero, Sami Ketari, Bassam Janji, Bernard Mari, Fathia Mami-Chouaib, and Salem Chouaib</td>
</tr>
<tr>
<td>4652</td>
<td>MOLECULAR AND CELLULAR PATHOBIOLOGY</td>
<td></td>
</tr>
<tr>
<td>4662</td>
<td>Platelets and P-Selectin Control Tumor Cell Metastasis in an Organ-Specific Manner and Independently of NK Cells</td>
<td>Lucy A. Coupland, Beng H. Chong, and Christopher R. Parish</td>
</tr>
<tr>
<td>4672</td>
<td>Collaboration of Kras and Androgen Receptor Signaling Stimulates EZH2 Expression and Tumor-Propagating Cells in Prostate Cancer</td>
<td>Houjian Cai, Sanaz Memarzadeh, Tanya Stoyanova, Zanna Beharry, Andrew S. Kraft, and Owen N. Witte</td>
</tr>
</tbody>
</table>
**Ink4a/Arf Inactivation with Activation of the NF-κB/IL-6 Pathway Is Sufficient to Drive the Development and Growth of Angiosarcoma**

Jinming Yang, Sara Kantrow, Jiqing Sai, Oriana E. Hawkins, Mark Boothby, Gregory D. Ayers, Eric D. Young, Elizabeth G. Demicco, Alexander J. Lazar, Dina Lev, and Ann Richmond

Précis: Results offer clinical implications for targeting the NF-κB/IL-6/STAT3 pathway to treat angiosarcoma, a rare but aggressive cancer of endothelial or lymph vessel cells that is poorly understood.

---

**Ectopic ATP Synthase Blockade Suppresses Lung Adenocarcinoma Growth by Activating the Unfolded Protein Response**

Hsin-Yi Chang, Hsuan-Cheng Huang, Tsui-Chin Huang, Pan-Chyr Yang, Yi-Ching Wang, and Hsueh-Fen Juan

Précis: Findings elucidate a feature of mitochondrial ATP synthase expressed at the plasma membrane in lung cancer cells that might be exploited therapeutically.

---

**MicroRNA-21 Modulates the Levels of Reactive Oxygen Species by Targeting SOD3 and TNFα**

Xiangming Zhang, Woon-Loon Ng, Ping Wang, LinLin Tian, Erica Werner, Huichen Wang, Paul Doetsch, and Ya Wang

Précis: An oncogenic microRNA thought to promote cancer mainly by affecting expression of growth regulatory genes may actually do so by regulating genes that promote reactive oxygen species formation, a root driver of carcinogenesis.

---

**Truncated DNMT3B Isoform DNMT3B7 Suppresses Growth, Induces Differentiation, and Alters DNA Methylation in Human Neuroblastoma**

Kelly R. Ostler, Qiwei Yang, Timothy J. Looney, Li Zhang, Aparna Vasanthakumar, Yufeng Tian, Mashia Kocherginsky, Stacey L. Raimondi, Jessica G. DeMaio, Helen R. Salwen, Song Gu, Alexandre Chlenski, Arlene Naranjo, Amy Gill, Radhika Peddinti, Bruce T. Lahn, Susan L. Cohn, and Lucy A. Godley

Précis: This study provides insights into the mechanistic basis for epigenetic changes in neuroblastoma, acting at the level of DNA methylation, with the potential to leverage treatments that use all-trans retinoic acid in this disease.

---

**Unphosphorylated STAT1 Promotes Sarcoma Development through Repressing Expression of Fas and Bad and Conferring Apoptotic Resistance**


Précis: Findings provide a molecular mechanism to explain the opposing functions between phosphorylated and unphosphorylated STAT1 in the control of the development of aggressive soft-tissue tumors.

---

**Markers of B-Cell Activation in Relation to Risk of Non-Hodgkin Lymphoma**

Anneclaire J. De Roos, Dana K. Mirick, Kerstin L. Edlefsen, Andrea Z. LaCroix, Kenneth J. Kopecy, Margaret M. Madeleine, Larry Magpaintay, and Otoniel Martínez-Maza

Précis: Evidence from a study of postmenopausal women suggests that B-cell activation plays a prominent role in the pathogenesis of non-Hodgkin lymphomas, pointing toward avenues for development of early diagnostic tests for this disease.

---

**Hematologic β-Tubulin VI Isoform Exhibits Genetic Variability That Influences Paclitaxel Toxicity**

Luis J. Leandro-García, Susanna Leskela, Lucía Ingладa-Pérez, Íñigo Anda, Aguïre A. de Cubas, Agneszka Maliszewska, Íñaki Comino-Méndez, Rocío Letón, Álvaro Gómez-Graña, Raúl Torres, Juan Carlos Ramírez, Sara Álvarez, José Rivera, Constantino Martínez, María Luisa Lozano, Alberto Cascón, Mercedes Robledo, and Cristina Rodríguez-Antona

Précis: A genetic variation found in a tubulin isoform expressed only in hematopoietic cells may explain the patient variation in myelosuppression that occurs after treatment with microtubule binding drugs.

---

**Systemic Combination Virotherapy for Melanoma with Tumor Antigen-Expressing Vesicular Stomatitis Virus and Adoptive T-Cell Transfer**

Diana M. Rommelfanger, Phonphimon Wongthida, Rosa M. Diaz, Karen M. Kaluza, Jill M. Thompson, Timothy J. Kotké, and Richard G. Vile

Précis: Combining adoptive T-cell therapy with the immune stimulating benefits of oncolytic virotherapy might generate a truly systemic protocol for treatment of metastatic cancers without the need of direct access to the tumor.
TUMOR AND STEM CELL BIOLOGY

Effective Combination Therapy for Malignant Glioma with TRAIL-Secreting Mesenchymal Stem Cells and Lipoxygenase Inhibitor MK886
Seong-Muk Kim, Ji Sun Woo, Chang Hyun Jeong, Chung Heon Ryu, Jung Yeon Lim, and Sin-Soo Jeun

Precise: Lipoxynagenase inhibitors might be repositioned to help TRAIL-based cancer treatment strategies break through persistent translational impediments.

CCN6 Modulates BMP Signaling via the Smad-Independent TAK1/p38 Pathway, Acting to Suppress Metastasis of Breast Cancer
Anupama Pal, Wei Huang, Xin Li, Kathy A. Toy, Zaneta Nikolovska-Coleska, and Celina G. Kleer

Precise: Findings identify a novel modifier pathway through which the extracellular matrix protein CCN6 limits the effects of the TGF-β signaling axis on breast cancer invasion and metastasis.

PCA-1/ALKB3 Contributes to Pancreatic Cancer by Supporting Apoptotic Resistance and Angiogenesis
Ichiro Yamato, Masayuki Sho, Keiji Shimada, Kiyohiko Hotta, Yuko Ueda, Satoshi Yasuda, Naoko Shigi, Noboru Konishi, Kazutake Tsujikawa, and Yoshiyuki Nakajima

Precise: Findings suggest functional insights for a little-studies DNA repair gene in the pathophysiology of pancreatic cancer, with possible impacts on progression and therapeutic management.

The Antioxidant Tempol Reduces Carcinogenesis and Enhances Survival in Mice When Administered after Nonlethal Total Body Radiation
James B. Mitchell, Miriam R. Anver, Anastasia L. Sowers, Philip S. Rosenberg, Maria Figueroa, Angela Thetford, Murali C. Krishna, Paul S. Albert, and John A. Cook

Precise: Findings prompt human studies of an antioxidant compound that can limit radiation-induced secondary malignancies after radiation therapy, and that may reduce the risks of cancer in individuals exposed to nonlethal radiation as a result of nuclear accidents or attacks.
Candidate Pathways for Promoting Differentiation or Quiescence of Oligodendrocyte Progenitor-like Cells in Glioma

Joseph D. Dougherty, Elena I. Fomchenko, Afua A. Akuffo, Eric Schmidt, Karim Y. Helmy, Elena Bazzoli, Cameron W. Brennan, Eric C. Holland, and Ana Milosevic

Précis: Translational profiling of mouse and human glioblastomas identified several candidate pathways that promote quiescence or differentiation rather than proliferation in these tumors, suggesting new therapeutic targets for combination treatment.

Correction: Deletion of the Endothelial Bmx Tyrosine Kinase Decreases Tumor Angiogenesis and Growth

Correction: Prognostic PET 18F-FDG Uptake Imaging Features Are Associated with Major Oncogenomic Alterations in Patients with Resected Non–Small Cell Lung Cancer

ABOUT THE COVER

Complete tumor eradication by thermal ablation therapy alone is often difficult because of sub-lethal thermal dose in some areas of the tumor. For photothermal ablation therapy, it is highly desirable to selectively deliver combined thermal ablation therapy and other treatment modalities such as chemotherapy through a single nanodevice. Using doxorubicin-loaded hollow gold nanospheres conjugated with a high-affinity cyclic peptide recognizing EphB4 receptors, it was found that targeted nanoparticles displayed significantly higher tumor uptakes than nanoparticles without peptidyl homing ligands. Moreover, treatment with near-infrared laser led to synergistic antitumor effect without increased toxicities in a preclinical mouse model. For details, see article by You and colleagues on page 4777.