Tumor-Penetrating iRGD Peptide Inhibits Metastasis
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ANG4043, a Novel Brain-Penetrant Peptide–mAb Conjugate, Is Efficacious against HER2-Positive Intracranial Tumors in Mice
Anthony Regina, Michel Demeule, Sasmita Tripathy, Simon Lord-Dufour, Jean-Christophe Currie, Mustapha Ildir, Borhane Annabi, Jean-Paul Castaigne, and Jean E. Lachowicz

Near Infrared Photoimmunotherapy in the Treatment of Disseminated Peritoneal Ovarian Cancer
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Bicyclic Peptides Conjugated to an Albumin-Binding Tag Diffuse Efficiently into Solid Tumors
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Preclinical Pharmacokinetics, Tolerability, and Pharmacodynamics of Metuzumab, a Novel CD147 Human–Mouse Chimeric and Glycoengineered Antibody
Zheng Zhang, Yang Zhang, Qian Sun, Fei Feng, Muren Huhe, Li Mi, and Zhinan Chen

Combined CDKN1A/TP53 Mutation in Bladder Cancer Is a Therapeutic Target
Yang Liu and David J. Kwiatkowski

SRT1720 Induces Lysosomal-Dependent Cell Death of Breast Cancer Cells
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Mechanisms of Resistance to Cabazitaxel
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Direct Binding of Arsenic Trioxide to AMPK and Generation of Inhibitory Effects on Acute Myeloid Leukemia Precursors
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Midkine Lacking Its Last 40 Amino Acids Acts on Endothelial and Neuroblastoma Tumor Cells and Inhibits Tumor Development
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ANP63α Transcriptionally Activates Chemokine Receptor 4 (CXCR4) Expression to Regulate Breast Cancer Stem Cell Activity and Chemotaxis
Andrew J. DeCastro, Pratima Cherukuri, Amanda Balboni, and James DiRenza

Interactions of Multitargeted Kinase Inhibitors and Nucleoside Drugs: Achilles Heel of Combination Therapy?
Vijaya L. Damaraju, Michelle Kuzma, Delores Mowles, Carol E. Cass, and Michael B. Sawyer

Elevated LIM Kinase 1 in Nonmetastatic Prostate Cancer Reflects Its Role in Facilitating Androgen Receptor Nuclear Translocation
Katerina Mardilovich, Mads Gabrielsen, Lynn McGarry, Clare Orange, Rachana Patel, Emma Shanks, Joanne Edwards, and Michael F. Olson

Enhanced Colonic Tumorigenesis in Alkaline Sphingomyelinase (NPP7) Knockout Mice
Ying Chen, Ping Zhang, Shu-Chang Xu, Liping Yang, Ulrikke Voss, Eva Ekblad, Yunjin Wu, Yalan Min, Erik Hertervig, Åke Nilsson, and Rui-Dong Duan

Long Noncoding RNA ANRIL Promotes Non–Small Cell Lung Cancer Cell Proliferation and Inhibits Apoptosis by Silencing KLF2 and P21 Expression
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Identifying Actionable Targets through Integrative Analyses of GEM Model and Human Prostate Cancer Genomic Profiling

Pharmacological Profiling of Kinase Dependency in Cell Lines across Triple-Negative Breast Cancer Subtypes
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The NOTCH Ligand JAGGED2 Promotes Pancreatic Cancer Metastasis Independent of NOTCH Signaling Activation
Yufeng Hu, Hexiu Su, Xu Li, Guoli Guo, Ling Cheng, Renyi Qin, Guoliang Qing, and Hudan Liu

Changes in BAI1 and Nestin Expression Are Prognostic Indicators for Survival and Metastases in Breast Cancer and Provide Opportunities for Dual Targeted Therapies
Walter Hans Meisen, Samuel Dubin, Steven T. Sizemore, Hanitha Mathsayaraja, Katie Thies, Norman L. Lehman, Peter Boyer, Alena Cristina Jaime-Ramirez, J. Bradley Elder, Kimberly Powell, Arnab Chakravarti, Michael C. Ostrowski, and Balveen Kaur

ABOUT THE COVER
Tumor antigen–targeting mAbs, such as Herceptin, are critical weapons in the cancer therapeutic arsenal, yet they cross the blood–brain barrier (BBB) poorly and their success treating brain tumors is limited. By conjugating an anti-HER2 mAb with a peptide that utilizes receptor-mediated transcytosis across the BBB, a brain-penetrant mAb, ANG4043, was created. ANG4043’s retention of tumor-targeting properties was demonstrated in HER2-positive BT-474 breast carcinoma cells. Colocalization of the control anti-HER2 mAb and the HER2 antigen is shown in yellow on the cell surface. For details, see article by Regina and colleagues on page 129.