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REVIEW

Targeting Oncogenic ALK: A Promising Strategy for Cancer Treatment
Enrique Grande, María-Victoria Bolo's, and Edurne Arriola

THERAPEUTIC DISCOVERY

GPR54 Is a Target for Suppression of Metastasis in Endometrial Cancer
Hyun Sook Kang, Tsukasa Baba, Masaki Mandai, Noriomi Matsumura, Junzo Hamanishi, Budiman Kharma, Eiji Kondoh, Yumiko Yoshio, Shinya Oishi, Nobutaka Fujii, Susan K. Murphy, and Ikuo Konishi

Targeting the Replication Checkpoint Using SCH 900776, a Potent and Functionally Selective CHK1 Inhibitor Identified via High Content Screening
Timothy J. Guzi, Kamil Paruch, Michael P. Dwyer, Marc Labroli, Frances Shanahan, Nicole Davis, Lorena Tarican, Derek Wiswell, Wolfgang Seghezzi, Ervin Peniadur, Bhagyashree Bhagwat, Wei Wang, Danling Gu, Yunsheng Hsieh, Suining Lee, Ming Liu, and David Parry

Targeted Delivery of an Antibody–Mutant Human Endostatin Fusion Protein Results in Enhanced Antitumor Efficacy
Seung-Uon Shin, Hyun-Mi Cho, Jaime Merchan, Jin Zhang, Krisztina Kovacs, Yawu Jing, Sundaram Ramakrishnan, and Joseph D. Rosenblatt

PRECLINICAL DEVELOPMENT

Context Dependence of Checkpoint Kinase 1 as a Therapeutic Target for Pancreatic Cancers Deficient in the BRCA2 Tumor Suppressor
Hiroyoshi Hattori, Ferdinandos Skoulidis, Paul Russell, and Ashok R. Venkitaraman

Targeting Ovarian Tumor Cell Adhesion Mediated by Tissue Transglutaminase
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Cancer-Targeted BikDD Gene Therapy Elicits Protective Antitumor Immunity against Lung Cancer
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Enigmol: A Novel Sphingolipid Analogue with Anticancer Activity against Cancer Cell Lines and In vivo Models for Intestinal and Prostate Cancer
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Radiosensitization of Head and Neck Squamous Cell Carcinoma by a SMAC-Mimetic Compound, SM-164, Requires Activation of Caspases
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MOLECULAR MEDICINE IN PRACTICE

Gene Expression Profiling Provides Insights into Pathways of Oxaliplatin-Related Sinusoidal Obstruction Syndrome in Humans
Laura Rubbia-Brandt, Sébastien Tauzin, Catherine Brezault, Céline Delucinge-Vivier, Patrick Descombes, Bertand Dousset, Pietro E. Majno, Gilles Mentha, and Benoît Terris

Evasion Mechanisms to Igf1r Inhibition in Rhabdomyosarcoma

CORRECTION

Correction: Interstitial Infusion of Glioma-Targeted Recombinant Immunotoxin 8H9scFv-PE38

ABOUT THE COVER

Genetically-engineered mouse models often represent some of the most physiologically accurate models of cancer from which to understand the tumor microenvironment and with which to perform preclinical trials. Abraham and colleagues present studies of a prototypic insulin-like growth factor receptor inhibitor using both genetically-engineered mouse models and the shell-free quail chorioallantois membrane (CAM) assay. Remarkably, the inexpensive short term (2 week) CAM assay offers xenografted tumors a scaffold of lymphatics, arteries, and veins that mimic short-term in vivo growth with all the advantages of intravital imaging. Photograph credits, Elaine Huang and Audra Lee. For details, see article by Abraham and colleagues on page 697.