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Biochemical Pharmacology





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Biochemical Pharmacology, Volume 80, issue 5, 1 September 2010 Contents

EDITORIAL

Introduction to the Biochemical Pharmacology special issue on targeted cancer therapy

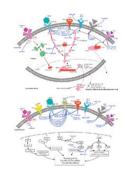
Keiran S.M. Smalley

REVIEWS AND ARTICLE

Molecularly targeted therapy in hepatocellular carcinoma

Hung Huynh

Receptor tyrosine kinases presented on the cell membrane of tumor and endothelial cells and the intracellular signaling pathways are targets for antiangiogenic and antiproliferative agents.

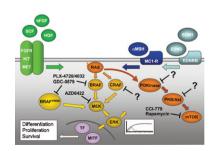


BRAF as therapeutic target in melanoma

Claudia Wellbrock, Adam Hurlstone

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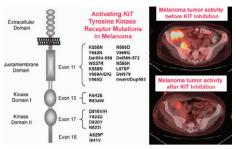
 $doi\!:\!10.1016/S0006\text{-}2952(10)00423\text{-}5$

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Targeting KIT in melanoma: A paradigm of molecular medicine and targeted therapeutics

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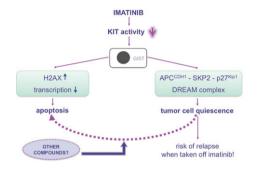
Scott E. Woodman, Michael A. Davies



Targeted therapies of gastrointestinal stromal tumors (GIST)—The next frontiers

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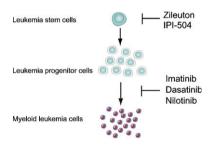
Stefan Duensing, Anette Duensing



Targeted therapy of chronic myeloid leukemia

Con Sullivan, Cong Peng, Yaoyu Chen, Dongguang Li, Shaoguang Li

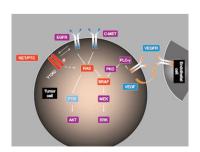
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Targeted therapy of thyroid cancer

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Steven I. Sherman

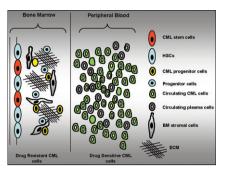


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The bone marrow microenvironment as a sanctuary for minimal residual disease in CML

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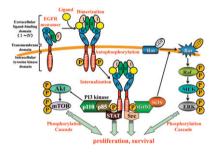
Rajesh R. Nair, Joel Tolentino, Lori A. Hazlehurst



Targeting epidermal growth factor receptor: Central signaling kinase in lung cancer

613-623

Takeshi Yoshida, Guolin Zhang, Eric B. Haura



Targeting the MAPK pathway in melanoma: Why some approaches succeed and other fail

624-637

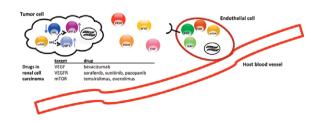
Gajanan S. Inamdar, SubbaRao V. Madhunapantula, Gavin P. Robertson



Building on a foundation of VEGF and mTOR targeted agents in renal cell carcinoma

638-646

Keith T. Flaherty, Igor Puzanov



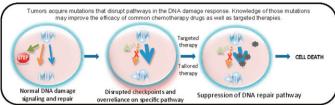
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Fine tuning chemotherapy to match BRCA1 status

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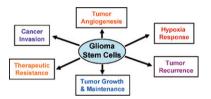
Melissa Price, Alvaro N.A. Monteiro



Potential therapeutic implications of cancer stem cells in glioblastoma

654-665

Lin Cheng, Shideng Bao, Jeremy N. Rich

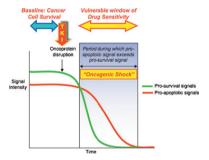


Exploiting the balance between life and death: Targeted cancer therapy and "oncogenic shock"

666-673

Sreenath V. Sharma, Jeff Settleman

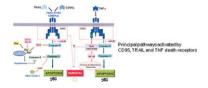
Oncogene addiction can render cancer cells vulnerable to "oncogenic shock", a transient imbalance in pro-survival and pro-apoptotic signals acutely following oncoprotein inactivation.



Exploring death receptor pathways as selective targets in cancer therapy

674-682

Maria Russo, Annalisa Mupo, Carmela Spagnuolo, Gian Luigi Russo

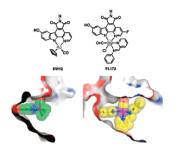


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Development of small-molecule inhibitors of the group I p21-activated kinases, emerging therapeutic targets in cancer

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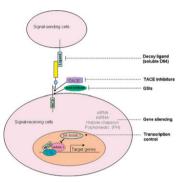
Chunling Yi, Jasna Maksimoska, Ronen Marmorstein, Joseph L. Kissil



Notch signaling: Emerging molecular targets for cancer therapy

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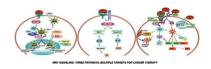
Ling Yin, Omaida C. Velazquez, Zhao-Jun Liu



Striking the target in Wnt-y conditions: Intervening in Wnt signaling during cancer progression

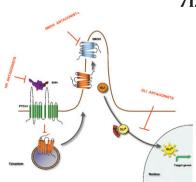
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Tura C. Camilli, Ashani T. Weeraratna



Small molecule modulation of HH-GLI signaling: Current leads, trials and tribulations

Christophe Mas, Ariel Ruiz i Altaba



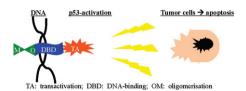
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Current strategies to target p53 in cancer

Fang Chen, Wenge Wang, Wafik S. El-Deiry

724-730



Molecular imaging and targeted therapies

David L. Morse, Robert J. Gillies

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Types of therapy biomarkers Response: Used to measure a quantitative change

in response to therapy. Prognostic: Used to predict patient outcome regardless of therapy.

Predictive: Used to predict response to a specific therapy.

<u>Imaging biomarkers</u> Anatomic: RECIST, volumetrics (CT, MRI).

Drug Targets

Functional: Dynamic Contrast Enhanced-MRI, Diffusion MRI, Magnetization Transfer MRI, and Macromolecule contrast. Molecular: PET (Receptors, metabolites, hypoxia, pH), CT/US/MR Nanoparticles, and MR (Spectroscopy, pH, hypoxia, chemical exchange saturation transfer, hyperpolarization).

Methods for investigation of targeted kinase inhibitor therapy using chemical proteomics and phosphorylation profiling

Bin Fang, Eric B. Haura, Keiran S. Smalley, Steven A. Eschrich, John M. Koomen

LC-MS/MS LC-MS/MS

Kinase Substrat

Identification of novel pancreatic adenocarcinoma cell-surface targets by gene expression profiling and tissue microarray

David L. Morse, Yoga Balagurunathan, Galen Hostetter, Maria Trissal, Narges K. Tafreshi, Nancy Burke, Mark Lloyd, Steven Enkemann, Domenico Coppola, Victor J. Hruby, Robert J. Gillies, Haiyong Han

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Using genetics and genomics strategies to personalize therapy for cancer: Focus on melanoma

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Katherine L. Nathanson



The benefits and challenges associated with the use of drug delivery systems in cancer therapy

762-770

Edna Cukierman, David R. Khan



During tumorigenesis the tumor-stroma is altered. These changes constitued both henefits and challenges for the use of drug delivery systems.

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