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REVIEW

Axl Kinase as a Key Target for Oncology: Focus on Small Molecule Inhibitors
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Direct Inhibition of Choline Kinase by a Near-Infrared Fluorescent Carbocyanine
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Selective Release of a Cyclopamine Glucuronide Prodrug toward Stem-like Cancer Cell Inhibition in Glioblastoma
Anais Balbous, Brigitte Renoux, Ulrich Cortes, Serge Milin, Karline Guilloteau, Thibaut Legigan, Pierre Rivet, Odile Boissonnade, Sébastien Martin, Caroline Tripiana, Michel Wager, René Jean Bensadoun, Sébastien Papot, and Lucie Karayan-Tapon

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LARGE MOLECULE THERAPEUTICS

EpCAM-Selective Elimination of Carcinoma Cells by a Novel MAP-Based Cytolytic Fusion Protein
Dmitrij Hristodorov, Manal Amoury, Radoslav Mladenov, Judith Niesen, Katharina Arens, Nina Berges, Lea Heim, Stefano Di Fiore, Anh-Tuan Pham, Michael Huhn, Wijnand Helfrich, Rainer Fischer, Theo Thepen, and Stefan Barth

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Activation of Nrf2 Pathways Correlates with Resistance of NSCLC Cell Lines to CBP501
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Pharmacogenetic Predictors of Outcome in Patients with Stage II and III Colon Cancer Treated with Oxaliplatin and Fluoropyrimidine-Based Adjuvant Chemotherapy
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Epidermal Growth Factor–like Domain 7 Predicts Response to First-Line Chemotherapy and Bevacizumab in Patients with Metastatic Colorectal Cancer
Torben Frostrup Hansen, Bente Schnack Nielsen, Flemming Brandt Sørensen, Anders Johnsson, and Anders Jakobsen
ABOUT THE COVER

To elucidate the potential mode of action of MAP-based cytolytic fusion proteins in living cells, colocalization assays were performed using EGFR⁺ A549 cells transfected with a SNAP-tagged tubulin DNA construct. Expressed SNAP-tagged tubulin molecules were labeled with SNAP-Cell TMR-Star (green). EGF-MAPf151 was used as a representative for MAP-based CFPs. MAPf151 was detected using mouse–anti-human Tau and goat–anti-mouse Alexa Fluor 647 antibodies (red). DAPI was used to counterstain the nucleus (blue). Using confocal fluorescence microscopy and a tubulin polymerization assay, it could be shown that MAP colocalized with and stabilized microtubules. For more details, see article by Hristodorov and colleagues on page 2194.
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