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High Numbers of Differentiated Effector CD4 T Cells Are Found in Patients with Cancer and Correlate with Clinical Response after Neoadjuvant Therapy of Breast Cancer

Isabelle Péguyillet, Maud Milder, Delphine Louis, Anne Vincent-Salomon, Thierry Dorval, Sophie Piperno-Neumann, Suzy M. Scholl, and Olivier Lantz

Precis: Effector CD4 T cells increase in the blood of cancer patients, and this increase correlates with response to neoadjuvant chemotherapy, implicating CD4 T cells in tumor regression.

Foxp3+ T Cells Inhibit Antitumor Immune Memory Modulated by mTOR Inhibition

Yanping Wang, Tim Sparwasser, Robert Figlin, and Hyung L. Kim

Precis: These findings offer a preclinical proof of concept for the combinatorial efficacy of mTOR inhibition with depletion of T regulatory cells, which enhances antitumor immune memory.

Autocrine Motility Factor Modulates EGF-Mediated Invasion Signaling

Dhong Hyo Kho, Tianpeng Zhang, Vitaly Balan, Yi Wang, Seung-Wook Ha, Youming Xie, and Avraham Raz

Precis: These findings show how a cytokine secreted in the tumor microenvironment modulates EGF-induced invasion and heightens acquired drug resistance.

Vemurafenib Cooperates with HPV to Promote Initiation of Cutaneous Tumors

Matthew Holdernessfield, Edward Lorenzana, Ben Weisburd, Lisa Lomovasky, Lise Boussemart, Ludovic Lacroix, Gorana Tomasic, Michel Favre, Stephan Vagner, Caroline Robert, Majid Ghoddusi, Dylan Daniel, Nancy Pryer, Frank McCormick, and Darrin Stuart

Precis: RAF inhibitors used to treat melanoma patients paradoxically activate MAPK signaling, which this report shows will cooperate with HPV infections in the skin to promote formation of squamous cancers and other skin lesions as a side effect of drug treatment.

E3 Ubiquitin Ligase HOIP Attenuates Apoptotic Cell Death Induced by Cisplatin


Precis: These results identify a candidate therapeutic target for the development of combinatorial chemotherapies to potentiate the efficacy of platinum-based anticancer drugs, a mainstay of the medical oncology clinic.
A Systems Biology Approach Identifies Effective Tumor–Stroma Common Targets for Oral Squamous Cell Carcinoma

Wenxia Meng, Yun Wu, Xin He, Chuanxia Liu, Qinghong Gao, Lin Ge, Lanyan Wu, Ying Liu, Yaqing Guo, Xiaoyu Li, Yurong Liu, Sixiu Chen, Xiangli Kong, Zhi Liang, and Hongmei Zhou

**Précis:** This study suggests a concept aimed at identifying drug targets that would be beneficial to attack in cancer cells and adjacent stromal cells simultaneously, offering a discovery framework for future drug combination strategies.

HO-3867, a Safe STAT3 Inhibitor, Is Selectively Cytotoxic to Ovarian Cancer


**Précis:** The orally active compound described may offer a long awaited translational opportunity to target STAT3 in the large number of cancer patients in whom STAT3 upregulation not only drives tumor cell growth but also immune escape, as an appealing tool for immunochemotherapy.

Context-Selective Death of Acute Myeloid Leukemia Cells Triggered by the Novel Hybrid Retinoid-HDAC Inhibitor MC2392


**Précis:** These findings offer preclinical evidence that targeting multiple signaling pathways with a single hybrid drug is a feasible and attractive paradigm for new cancer therapies.

Loss of NF1 in Cutaneous Melanoma Is Associated with RAS Activation and MEK Dependence

Moriah H. Nissan, Christine A. Pratilas, Alexis M. Jones, Ricardo Ramirez, Helen Won, Cailian Liu, Shakuntala Tiwari, Li Kong, Aphroditii J. Hanrahan, Zhan Yao, Taha Merghoub, Antoni Ribas, Paul B. Chapman, Rona Yaeger, Barry S. Taylor, Nikolaus Schultz, Michael F. Berger, Neal Rosen, and David B. Solit

**Précis:** The mechanistic consequences of NF1 loss in melanoma have clinical impact not only for treatment of melanoma, but also for neurofibromatosis type 1 and other cancers in which NF1 is altered.

Identification of FoxR2 as an Oncogene in Medulloblastoma

Hideto Koso, Asano Tsuhako, Eli Lyons, Jerrold M. Ward, Alistair G. Rust, David J. Adams, Nancy A. Jenkins, Neal G. Copeland, and Sumiko Watanabe

**Précis:** A transposon screen for medulloblastoma cancer genes identifies new genes that regulate SHH signaling and proliferation of granule neuron precursors.

Cofilin Drives Cell-Invasive and Metastatic Responses to TGF-β in Prostate Cancer

Joanne Collazo, Beibei Zhu, Spencer Larkin, Sarah K. Martin, Hong Pu, Craig Horbinski, Shahrir Koochekpour, and Natasha Kyripanou

**Précis:** An F-actin severing protein that is required for cytoskeletal reorganization, filopodia formation, and cell migration is found to be critical for metastasis, with potential implications on how to disrupt this central feature of cancer progression.

Correction: A Transgenic Mouse Model for Early Prostate Metastasis to Lymph Nodes
ABOUT THE COVER

Androgen receptor (AR) nuclear accumulation and transcriptional activity is critical for prostate cancer growth in hormone-naive and castration resistant disease (CRPC). The taxanes, microtubule-stabilizing drugs, are widely used in the treatment of CRPC. The dynein motor protein to efficiently traffic AR to the nucleus utilizes microtubule dynamics. Taxane treatment interferes with this process and sequesters AR in the cytoplasm. AR splice variants are often expressed in CRPC and confer resistance to androgen deprivation therapies. Using confocal microscopy of prostate cancer cells expressing ARv567 (green) and the dynein accessory protein dynamin (red) whose expression inhibits dynein-cargo binding, we show that ARv567 variant, similar to the AR wt, utilizes dynein motor protein and microtubules to efficiently translocate to the nucleus. For details, see article by Thadani-Mulero and colleagues on page 2270.