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A.K. Mitra, M. Zillhardt, Y. Hua, P. Tiwari, A.E. Murmann, M.E. Peter, and E. Lengyel
Précis: Changes in microRNA expression in ovarian cancer promote cancer-associated fibroblast reprogramming and induce the expression of the tumor-promoting chemokine CCL5 in fibroblasts.

Metabolomics Strategy Reveals Subpopulation of Liposarcomas Sensitive to Gemcitabine Treatment .................. 1109
Précis: Nucleoside salvage activity in a subset of liposarcomas can be identified via PET imaging and enhances tumor response to gemcitabine.

FGFR Genetic Alterations Predict for Sensitivity to NVP-BGJ398, a Selective Pan-FGFR Inhibitor .................. 1118
Précis: Mutations of FGFR family members or ligands may represent stratification biomarkers that identify patients likely to respond to targeted FGFR inhibition.
Dual Roles of PARP-1 Promote Cancer Growth and Progression


Précis: PARP-1 represents a potential therapeutic target in prostate cancer due to its roles in DNA repair and regulation of androgen receptor activity.

Identification of Luminal Breast Cancers That Establish a Tumor-Supportive Macroenvironment Defined by Proangiogenic Platelets and Bone Marrow-Derived Cells


Précis: Luminal breast cancers stimulate distant tumor growth by generating a systemic protumor environment composed of activated circulating platelets and bone marrow cells.

Acknowledgment to Reviewers

For more News and Research Watch, visit Cancer Discovery online at http://CDnews.aacrjournals.org. Online-only News stories include the following:

• Decoding ENCODE for Cancer
• Cancer Imaging Research Looks Ahead
• Compendia Goes Clinical
• Innovation for Life Science Innovators
• Hormone Levels Predict Long-term Breast Cancer Risk
• Drugmakers Struggle with Indian Patents

ON THE COVER

Braas and colleagues performed mass-spectrometry–based metabolomics to assess alternative nutrient uptake in liposarcoma and observed nucleoside consumption and elevated activity of the nucleoside salvage pathway enzyme deoxycytidine kinase (dCK) in patient-derived liposarcoma cell lines and a subset of primary liposarcoma samples. Nucleoside salvage pathway activity could be imaged in vivo by positron emission tomography (PET) using a cytidine-derived tracer, 1-(2′-deoxy-2′-[18F]fluoroarabinofuranosyl)cytosine (FAC), and enhanced the sensitivity of liposarcoma cell lines and xenograft tumors to gemicitabine, a nucleoside analogue prodrug, in a dCK-dependent manner. These results suggest that FAC–PET may identify patients with liposarcoma who will benefit from gemicitabine treatment. For details, please see the article by Braas and colleagues on page 1109.