The Initial Hours of Metastasis: The Importance of Cooperative Host–Tumor Cell Interactions during Hematogenous Dissemination .................. 1091
M. Labelle and R.O. Hynes

MicroRNAs Reprogram Normal Fibroblasts into Cancer-Associated Fibroblasts in Ovarian Cancer .................. 1100
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.

MicroRNAs Play a Big Role in Regulating Ovarian Cancer–Associated Fibroblasts and the Tumor Microenvironment .... 1078
J. Chou and Z. Werb
Commentary on Mitra et al., p. 1100

Lineage-Specific Biomarkers Predict Response to FGFR Inhibition .......................... 1081
D.C. Loch and P.M. Pollock
Commentary on Guagnano et al., p. 1118

Hello Out There...Is Anybody Listening? .................. 1084
R.A. DeFilippis and T.D. Tlsty
Commentary on Kuznetsov et al., p. 1150

In Focus

Integrative Cancer Epidemiology—The Next Generation  ........... 1087
M.R. Spitz, N.E. Caporaso, and T.A. Sellers

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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 Macroevironment 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

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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 gemcitabine, a nucleoside analogue produrg, in a dCK-dependent manner. These results suggest that FAC–PET may identify patients with liposarcoma who will benefit from gemcitabine treatment. For details, please see the article by Braas and colleagues on page 1109.