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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

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 prodrug, 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.