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Précis: Modulating the function of tumor-associated macrophages can leverage androgen blockade therapy in prostate cancer and may improve long-term treatment outcomes in patients.
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Starvation Promotes REV1 SUMOylation and p53-Dependent Sensitization of Melanoma and Breast Cancer Cells
Hong Seok Shim, Min Wei, Sebastian Brandhorst, and Valter D. Longo

Précis: These findings suggest how dietary fasting may offer a nontoxic strategy to increase the efficacy of cytotoxic therapies that act in part by activating p53.

Tumorigenic Activity of Merkel Cell Polyomavirus T Antigens Expressed in the Stratified Epithelium of Mice
Megan E. Spurgeon, Jingwei Cheng, Roderick T. Bronson, Paul F. Lambert, and James A. DeCaprio

Précis: Use of a new mouse model of Merkel cell polyomavirus-associated tumorigenesis provides deeper insights into how viral tumor antigens alter the cellular microenvironment in vivo, with potential relevance to various human cancers that involve virus infection.

Targeting LINX Inhibits Non–Small Cell Lung Cancer Growth and Metastasis
Xiaohu Zheng, Min Cheng, Binqing Fu, Xiaolei Fan, Qing Wang, Xiaoqing Yu, Rui Sun, Zhigang Tian, and Haiming Wei

Précis: These results offer preclinical proof of concept for a candidate immunotherapy target in non–small cell lung cancers.

GeneX Events That Limit the Efficacy of MEK and RTK Inhibitor Therapies in a Mouse Model of KRAS-Driven Pancreatic Cancer

Précis: Understanding the activation status of various oncogenic drivers as they exist in specific treatment contexts in vivo may be important to achieve beneficial outcomes, increasing the complexity in how to use targeted drugs that were designed only with cancer cells in mind.

Genetic and Pharmacologic Inhibition of eIF4E Reduces Breast Cancer Cell Migration, Invasion, and Metastasis
Filippa Pettersson, Sonia V. del Rincon, Audrey Emond, Bonnie Huo, Elaine Ngan, Jonathan Ng, Monica C. Dobocan, Peter M. Siegel, and Wilson H. Miller Jr

Précis: These findings offer a powerful rationale to broaden the clinical evaluation of ribavirin, a small molecule inhibitor of the translation initiation factor eIF4E currently being tested in leukemia patients, as a strategy to treat advanced solid tumors such as metastatic breast cancer in which eIF4E is commonly overexpressed.

Constitutive Activation of Myosin-Dependent Contractility Sensitizes Glioma Tumor-Initiating Cells to Mechanical Inputs and Reduces Tissue Invasion
Sophie Y. Wong, Theresa A. Ulrich, Loic P. Deleyrolle, Joanna L. MacKay, Jung-Ming G. Lin, Regina T. Martinello, Musa A. Jundi, Brent A. Reynolds, and Sanjay Kumar

Précis: Because recurrences of brain cancer are tied to local invasion of tumor cells, strategies to restrict the motility of stem-like cells by increasing their cellular contractility may help limit relapses and prolong survival.

miR340 Suppresses the Stem-like Cell Function of Glioma-Initiating Cells by Targeting Tissue Plasminogen Activator
Daisuke Yamashita, Toru Kondo, Shiro Ohue, Hisaaki Takahashi, Madoka Ishikawa, Ryo Matoba, Satoshi Suehiro, Shuhei Kohno, Hironobu Harada, Junya Tanaka, and Takamori Ohnishi

Précis: A tumor suppressor gene that functions in glioma stem-like cells acts to inhibit their expression of tissue plasminogen activator, with the provocative implication that targeting this central coagulation factor may ablate cancer stem-like functions in the brain.

Host Age Is a Systemic Regulator of Gene Expression Impacting Cancer Progression
Afshin Beheshti, Sébastien Benzéckey, J. Tyson McDonald, Lili Ma, Michael Peluso, Philip Hahnfeld, and Lynn Hlatky

Précis: This study offers direct support for age dependence in determining the host tumor control dynamic and provides initial mechanism-based insights into how aging modulates tumor progression in ways that may be actionable for therapy or prevention.
**LETTERS TO THE EDITOR**

**1156 Bufalin Is a Steroid Receptor Coactivator Inhibitor—Letter**
José Manuel Calderón-Montaño, Estefanía Burgos-Morón, Manuel Luis Orta, Irene García-Domínguez, Dolores Maldonado-Navas, and Miguel López-Lázaro

**1157 Bufalin Is a Steroid Receptor Coactivator Inhibitor—Response**
David M. Lonard, Jianming Xu, and Bert W. O’Malley

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**ABOUT THE COVER**

miR340 is a tumor suppressor whose overexpression in human glioma-initiating cells (GIC) inhibits their proliferation, invasive, and migratory properties. Transplantation of miR340-overexpressed GICs in NOD/SCID mouse brains completely suppressed the tumor formation of malignant gliomas. Among factors related to antitumorigenesis, the transplanted GICs with miR340 overexpression showed a positive immunostain for an active form of caspase-3 in the early stage of transplantation, suggesting that antitumorigenic activity of miR340 in GICs may be due to tumor cell apoptosis. For details, see the article by Yamashita and colleagues on page 1123.