Th9 Cells: A Novel CD4 T-cell Subset in the Immune War against Cancer
Frédérique Végran, Lionel Apetoh, and François Ghiringhelli

Novel Insights into Head and Neck Cancer using Next-Generation "Omic" Technologies
Lusia Sepiashvili, Jeff P. Bruce, Shao Hui Huang, Brian O’Sullivan, Fei-Fei Liu, and Thomas Kislinger

Role of Chitinase 3–like-1 and Semaphorin 7a in Pulmonary Melanoma Metastasis
Bing Ma, Erica L. Herzog, Chun Gen Lee, Xueyan Peng, Chang-Min Lee, Xiaosong Chen, Sara Rockwell, Ja Seok Koo, Harriet Kluger, Roy S. Herbst, Mario Sznol, and Jack A. Elias

Strict Requirement for Vector-Induced Type I Interferon in Efficacious Antitumor Responses to Virally Encoded IL12
Ignacio Melero, Jose I. Quetglas, Mercedes Reboredo, Juan Dubrot, Juan R. Rodriguez-Madrazo, Umuxo Mancheño, Erkuden Casales, Jose I. Riezu-Boj, Marta Ruiz-Guillen, Maria C. Ochoa, Miguel F. Sannamed, Nathalie Thibelemont, Cristian Smerdou, and Sandra Herras-Stubbs

Lysophosphatidic Acid Receptor LPAR6 Supports the Tumorigenicity of Hepatocellular Carcinoma
Antonio Mazzocca, Francesco Dituri, Flavia De Santis, Addolorata Filannino, Chiara Lopane, Regina C. Betz, Ying-Yi Li, Naofumi Mukaida, Peter Winter, Cosimo Tortorella, Gianluigi Giannelli, and Carlo Sabbà

Host miR155 Promotes Tumor Growth through a Myeloid-Derived Suppressor Cell–Dependent Mechanism
Sagi Chen, Long Wang, Jie Fan, Cong Ye, Dongye Dominguez, Yi Zhang, Tyler J. Curiel, Deyu Fang, Timothy M. Kuzel, and Bin Zhang

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Human Pancreatic Cancer Tumors Are Nutrient Poor and Tumor Cells Actively Scavenge Extracellular Protein
Jurrie J. Kamphorst, Michel Nofal, Cosimo Commissio, Sean R. Hackett, Wenyun Lu, Elda Grabocka, Matthew G. Vander Heiden, George Miller, Jeffrey A. Dreb, Dafna Bar-Sagi, Craig B. Thompson, and Joshua D. Rabinowitz
Gain of Glucose-Independent Growth upon Metastasis of Breast Cancer Cells to the Brain
Jinyu Chen, Ho-Jeong Lee, Xuefeng Wu, Lei Huo, Sun-Jin Kim, Lei Xu, Yan Wang, Junqing He, Lakshm R. Bollu, Guang Cao, Fei Su, James Briggs, Xiaoqing Liu, Tamar Melman, John M. Asara, Isaial J. Fidler, Lewis C. Cantley, Jason W. Locasale, and Zhang Weihua

Précis: This study defines a specific metabolic condition required to sustain brain metastasis, with therapeutic implications for how this deadly feature of advanced breast cancer might be eradicated.

Identification of a Functional SNP in the 3'ITR of CXCR2 That Is Associated with Reduced Risk of Lung Cancer
Bríd M. Ryan, Ana I. Robles, Andrew C. McClary, Majda Haznadar, Elise D. Bowman, Sharon R. Pine, Derek Brown, Mohammed Khan, Koyu Shiraiishi, Takashi Kohno, Hirokazu Okayama, Ramakrishna Modali, Jn Yokota, and Curtis C. Harris

Précis: A genetic polymorphism in a chemokine receptor known to drive myeloid recruitment in the tumor microenvironment confers strong protection against lung cancer, with potential implications in understanding etiology, prognosis, and therapeutic response in this widespread disease.

Perinatal and Familial Risk Factors for Brain Tumors in Childhood through Young Adulthood
Casey Crump, Jan Sundquist, Weiva Sieh, Marilyn A. Winkleby, and Kristina Sundquist

Précis: In this large national cohort study, high birth weights associated with an increased risk of brain tumors were traced to a role for high growth rates rather than gestational age.

PDGFRα and β Play Critical Roles in Mediating Foxq1-Driven Breast Cancer Stemness and Chemoresistance
Fanyan Meng, Cecilia L. Speyer, Bin Zhang, Yongzhong Zhao, Wei Chen, David H. Gorski, Fred R. Miller, and Guojun Wu

Précis: These findings establish a novel functional connection in breast cancer, with implications for ways to combine targeted therapeutics to stratify patients and enhance efficacy.

Bruton Tyrosine Kinase Is a Therapeutic Target in Stem-like Cells from Multiple Myeloma
Ye Yang, Jumei Shi, Zhimin Gu, Mohamed E. Salama, Satyabrata Das, Erik Wendlandt, Hongwei Xu, Junwei Huang, Yi Tao, Mu Hao, Reinaldo Franqui, Dana Levasseur, Siegried Janz, Guido Tricot, and Fenghuang Zhan

Précis: These findings provide a preclinical rationale for repositioning a recently approved drug to treat aggressive multiple myelomas, with immediate implications for clinical evaluation of this strategy.

Acute Tissue Injury Activates Satellite Cells and Promotes Sarcoma Formation via the HGF/c-MET Signaling Pathway
David Van Mater, Leonor Añó, Jordan M. Blum, Micah T. Webster, WeiQiao Huang, Nerissa Williams, Yan Ma, Diana M. Cardona, Chen-Ming Fan, and David G. Kirsch

Précis: Extending early insights from Ewing and other prominent physicians that injury causes sarcoma development, these authors found that tissue injury in a mouse model of soft tissue sarcoma acts as a strong promoter of tumor formation that is mediated by HGF/c-MET signaling.

Retraction: NRH:Quinone Oxidoreductase 2 and NAD(P)H:Quinone Oxidoreductase 1 Protect Tumor Suppressor p53 against 20S Proteasomal Degradation Leading to Stabilization and Activation of p53

Correction: Crosstalk between microRNA30a/b/c/d/e-5p and the Canonical Wnt Pathway: Implications for Multiple Myeloma Therapy
ABOUT THE COVER

Altered metabolism is a common feature of cancer cells, but little is known as to what metabolic changes benefit breast cancer brain metastases. Fructose-1,6-bisphosphatase 2 (FBP2), a rate limiting enzyme of gluconeogenesis, was found to be significantly upregulated in breast cancer brain metastasis. FBP2 empowers brain metastatic cancer cells with the ability to grow independently of glucose. For details, see article by Chen and colleagues on page 554.
2015;75:473-616.


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