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Margaret C. Steiner, Jez L. Marston, Luis P. Iñiguez, Matthew L. Bendall, Katherine B. Chiappinelli, Douglas F. Nixon, and Keith A. Crandall

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This study demonstrates that SLC7A11 in PDAC stromal cells is important for the tumor-promoting activity of CAFs and validates a clinically translatable nanomedicine for therapeutic SLC7A11 inhibition in PDAC.

3480 Loss of SDHB Promotes Dysregulated Iron Homeostasis, Oxidative Stress, and Sensitivity to Ascorbate

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Ken-ichi Takayama, Teruki Honma, Takashi Suzuki, Yasumitsu Kondoh, Hiroyuki Osada, Yutaka Suzuki, Minoru Yoshida, and Satoshi Inoue
This study identifies small molecules that target PSF-RNA interactions and suppress hormone therapy-refractory cancer growth, suggesting the potential of targeting PSF-mediated gene regulation for cancer treatment.
- 3509 Long Noncoding RNA CTD-2245E15.3 Promotes Anabolic Enzymes ACC1 and PC to Support Non-Small Cell Lung Cancer Growth**
Chen Wang, Xiangfeng Meng, Yu Zhou, Jing Yu, Qing Li, Zhicong Liao, Yuan Yuan Gu, Jiayi Han, Shuo Linghu, Zichen Jiao, Tao Wang, Chen-Yu Zhang, and Xi Chen
These findings demonstrate a novel lncRNA CTD-2245E15.3 that binds and positively regulates anabolic enzymes ACC1 and PC to promote tumor growth.
- 3525 Nicotine-Induced ILF2 Facilitates Nuclear mRNA Export of Pluripotency Factors to Promote Stemness and Chemoresistance in Human Esophageal Cancer**
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- 3539 Circulating Small Extracellular Vesicles Activate TYRO3 to Drive Cancer Metastasis and Chemoresistance**
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- 3554 Multilevel Regulation of β -Catenin Activity by SETD2 Suppresses the Transition from Polycystic Kidney Disease to Clear Cell Renal Cell Carcinoma**
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- 3568 TIMP1 Triggers Neutrophil Extracellular Trap Formation in Pancreatic Cancer**
Benjamin Schoeps, Celina Eckfeld, Olga Prokopchuk, Jan Böttcher, Daniel Häußler, Katja Steiger, Ihsan Ekin Demir, Percy Knolle, Oliver Soehnlein, Dieter E. Jenne, Chris D. Hermann, and Achim Krüger
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- 3580 EGFR Activates a TAZ-Driven Oncogenic Program in Glioblastoma**
Minling Gao, Yi Fu, Weiqiang Zhou, Gege Gui, Bachuchu Lal, Yunqing Li, Shuli Xia, Hongkai Ji, Charles G. Eberhart, John Lathera, and Mingyao Ying
This study establishes a genome-wide map of EGFR-TAZ signaling in glioblastoma and finds osimertinib effectively inhibits this signaling, justifying its future clinical evaluation to treat glioblastoma and other cancers with EGFR/TAZ hyperactivation.
- 3593 Mutated SPOP E3 Ligase Promotes 17 β HSD4 Protein Degradation to Drive Androgenesis and Prostate Cancer Progression**
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- 3607 Targeting DDX3X Triggers Antitumor Immunity via a dsRNA-Mediated Tumor-Intrinsic Type I Interferon Response**
Hyeongjwa Choi, Juntae Kwon, Min Soon Cho, Yifan Sun, Xiaofeng Zheng, Jing Wang, Kerrie B. Bouker, John L. Casey, Michael B. Atkins, Jeffrey Toretsky, and Cecil Han
This study elucidates the novel role of DDX3X in regulating endogenous cellular dsRNA homeostasis and type I IFN signaling in breast cancer.
- 3621 14-3-3 σ Functions as an Intestinal Tumor Suppressor**
Markus Winter, Matjaž Rokavec, and Heiko Hermeking
Downregulation of 14-3-3 σ in colorectal cancer is associated with metastasis and poor survival of patients, and its inactivation in a murine tumor model drives intestinal tumor formation and epithelial-mesenchymal transition.

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- 3635 An Oncolytic Virus Expressing IL15/IL15R α Combined with Off-the-Shelf EGFR-CAR NK Cells Targets Glioblastoma**
Rui Ma, Ting Lu, Zhenlong Li, Kun-Yu Teng, Anthony G. Mansour, Melissa Yu, Lei Tian, Bo Xu, Shoubao Ma, Jianying Zhang, Tasha Barr, Yong Peng, Michael A. Caligiuri, and Jianhua Yu
The combination of an oncolytic virus expressing the IL15/IL15R α complex and frozen, ready-to-use EGFR-CAR NK cells elicits strong antitumor responses in glioblastoma.

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- 3664 SLFN5 Regulates LAT1-Mediated mTOR Activation in Castration-Resistant Prostate Cancer**
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This study identifies SLFN5 as a novel regulator of the LAT1 amino acid transporter and an essential contributor to mTORC1 activity in castration-resistant prostate cancer.
- 3679 Suppression of ACADM-Mediated Fatty Acid Oxidation Promotes Hepatocellular Carcinoma via Aberrant CAV1/SREBP1 Signaling**
Angel P.Y. Ma, Cherlie L.S. Yeung, Sze Keong Tey, Xiaowen Mao, Samuel W.K. Wong, Tung Him Ng, Frankie C.F. Ko, Ernest M.L. Kwong, Alexander H.N. Tang, Irene Oi-Lin Ng, Shao Hang Cai, Jing Ping Yun, and Judy W.P. Yam
This study identifies tumor suppressive effects of ACADM in hepatocellular carcinoma and suggests promotion of β -oxidation to diminish fatty acid availability to cancer cells could be used as a therapeutic strategy.
- 3693 Multimodal Molecular Imaging Detects Early Responses to Immune Checkpoint Blockade**
Yu Saida, Jeffrey R. Brender, Kazutoshi Yamamoto, James B. Mitchell, Murali C. Krishna, and Shun Kishimoto
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- 3706 Disabling the Fanconi Anemia Pathway in Stem Cells Leads to Radioresistance and Genomic Instability**
Xinzhu Deng, Jason Tchieu, Daniel S. Higginson, Kuo-Shun Hsu, Regina Feldman, Lorenz Studer, Shai Shaham, Simon N. Powell, Zvi Fuks, and Richard Kolesnick
This study finds that Fanconi anemia stem cells preferentially activate error-prone NHEJ-dependent DNA repair to survive irradiation, thereby conferring generational genomic instability that is instrumental in carcinogenesis.
- 3717 Nedd9 Restrains Autophagy to Limit Growth of Early Stage Non-Small Cell Lung Cancer**
Alexander Y. Deneka, Meghan C. Kopp, Anna S. Nikonova, Anna V. Gaponova, Anna A. Kiseleva, Harvey H. Hensley, Douglas B. Flieder, Ilya G. Serebriiskii, and Erica A. Golemis
This study demonstrates a novel role for the scaffolding protein NEDD9 in regulating LKB1-AMPK signaling in early stage non-small cell lung cancer, suppressing autophagy and tumor growth.

TRANSLATIONAL SCIENCE

- 3727 Nicotinamide Mononucleotide Prevents Cisplatin-Induced Cognitive Impairments**
Ki Hyun Yoo, Jason J. Tang, Mohammad Abdur Rashid, Chang Hoon Cho, Ana Corujo-Ramirez, Jonghoon Choi, Mun Gyeong Bae, Danielle Brogren, John R. Hawse, Xiaonan Hou, S. John Weroha, Alfredo Oliveros, Lindsey A. Kirkeby, Joseph A. Baur, and Mi-Hyeon Jang
Increasing NAD⁺ through NMN supplementation offers a potential therapeutic strategy to safely prevent cisplatin-induced cognitive impairments, thus providing hope for improved quality of life in cancer survivors.

POPULATION AND PREVENTION SCIENCE

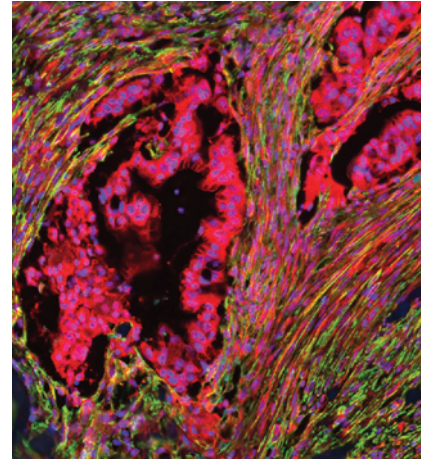
- 3738 Prospective Identification of Elevated Circulating CDCP1 in Patients Years before Onset of Lung Cancer**
Sonia Dagnino, Barbara Bodinier, Florence Guida, Karl Smith-Byrne, Dusan Petrovic, Matthew D. Whitaker, Therese Haugdahl Nøst, Claudia Agnoli, Domenico Palli, Carlotta Sacerdote, Salvatore Panico, Rosario Tumino, Matthias B. Schulze, Mikael Johansson, Pekka Keski-Rahkonen, Augustin Scalbert, Paolo Vineis, Mattias Johansson, Torkjel M. Sandanger, Roel C.H. Vermeulen, and Marc Chadeau-Hyam
Prospective proteomics analyses reveal an association between increased levels of circulating CDCP1 and lung carcinogenesis irrespective of smoking and years before diagnosis, and integrating gene expression indicates potential underlying mechanisms.
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Solute carrier 7A11 (SLC7A11) is expressed by cancer cells and cancer-associated fibroblasts in a human pancreatic cancer. The confocal image shows alpha-smooth muscle actin (green), SLC7A11 (red), and DAPI (blue) immunofluorescence staining in a human pancreatic tumor section. For details, see article by Sharbeen and colleagues on page 3461.



Cancer Research

The Journal of Cancer Research (1916–1930) | The American Journal of Cancer (1931–1940)

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