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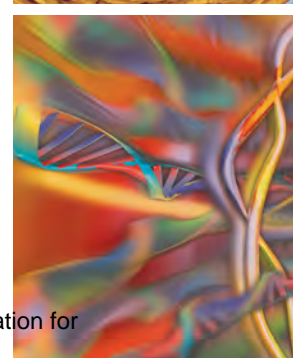
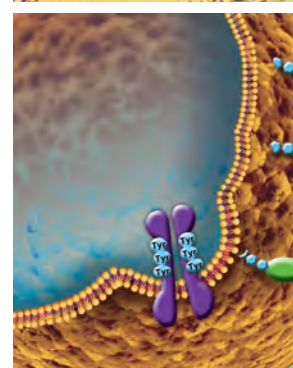
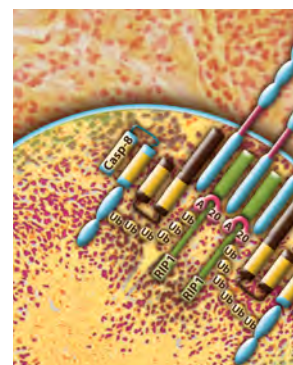
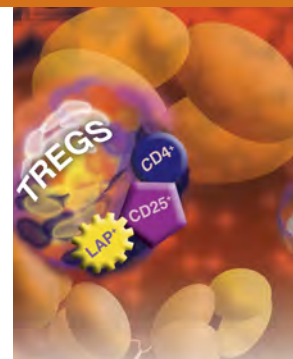
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RESEARCH BRIEFS Identification of Human Regulatory T Cells in the Setting of T-Cell Activation and Anti-CTLA-4 Immunotherapy on the Basis of Expression of Latency-Associated Peptide 122
J. Sun, D.N. Tang, T. Fu, and P. Sharma

Précis: Latency-associated peptide is an accurate surrogate marker of regulatory T cells that will facilitate functional studies of immunotherapy.

Inherited Variation at Chromosome 12p13.33, Including RAD52, Influences the Risk of Squamous Cell Lung Carcinoma 131
J. Shi, N. Chatterjee, M. Rotunno, Y. Wang, A.C. Pesatori, D. Consonni, P. Li, W. Wheeler, P. Broderick, M. Henrion, T. Eisen, Z. Wang, W. Chen, Q. Dong, D. Albanes, M. Thun, M.R. Spitz, P. A. Bertazzi, N.E. Caporaso, S.J. Chanock, C.I. Amos, R.S. Houlston, and M.T. Landi

Précis: A pathway-based analysis of a genome-wide association study identifies a squamous cell lung carcinoma susceptibility locus harboring the RAD52 gene.




RESEARCH ARTICLES

A20 Ubiquitin Ligase-Mediated Polyubiquitination of RIP1 Inhibits Caspase-8 Cleavage and TRAIL-Induced Apoptosis in Glioblastoma 140

A.C. Bellail, J.J. Olson, X. Yang, Z.J. Chen, and C. Hao

Précis: Overexpression of the ubiquitin ligase A20 is a mechanism of resistance to TRAIL pathway-targeted therapy in glioblastoma.

The OPCML Tumor Suppressor Functions as a Cell Surface Repressor-Adaptor, Negatively Regulating Receptor Tyrosine Kinases in Epithelial Ovarian Cancer 156

 A.B. McKie, S. Vaughan, E. Zanini, I.S. Okon, L. Louis, C. de Sousa, M.I. Greene, Q. Wang, R. Agarwal, D. Shaposhnikov, J.L.C. Wong, H. Gungor, S. Janczar, M. El-Bahrawy, E.W-F. Lam, N.E. Chayen, and H. Gabra

Précis: OPCML binds the extracellular domains of specific receptor tyrosine kinases to induce their endocytic internalization and proteasomal degradation.

Essential Gene Profiles in Breast, Pancreatic, and Ovarian Cancer Cells 172

R. Marcotte, K.R. Brown, F. Suarez, A. Sayad, K. Karamboulas, P.M. Krzyzanowski, F. Sircoulomb, M. Medrano, Y.Fedyshyn, J.L.Y. Koh, D. van Dyk, B. Fedyshyn, M. Luhova, G.C. Brito, F.J. Vizeacoumar, F.S. Vizeacoumar, A. Datti, D. Kasimer, A. Buzina, P. Mero, C. Misquitta, J. Normand, M. Haider, T. Ketela, J.L. Wrana, R. Rottapel, B.G. Neel, and J. Moffat

Précis: Analysis of a large-scale shRNA dropout screen with a new scoring metric facilitates the identification of essential genes and putative oncogenic drivers.

Correction

Correction: An LXR Agonist Promotes Glioblastoma Cell Death through Inhibition of an EGFR/AKT/SREBP-1/ LDLR-Dependent Pathway 190

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- NCATS Is Out of the Bag
- Immune Cells May Promote Skin Cancer
- Putting Tumors to the Blood Test
- Web Applications Aid Clinical Trial Recruitment

ON THE COVER

McKie and colleagues show that OPCML expression is silenced in multiple tumor types, including the vast majority of high-grade serous ovarian tumors, and correlates with poor prognosis. They further establish an extracellular mechanism of OPCML-mediated tumor suppression through negative regulation of a specific group of receptor tyrosine kinases (RTK). Through binding to RTK extracellular domains, OPCML induces RTK membrane redistribution, internalization, and degradation. Recombinant OPCML down-regulated the same RTKs *in vivo* and inhibited ovarian cancer cell growth, suggesting that extracellular protein therapy may be useful in the treatment of OPCML-deficient tumors. For details, please see the article by McKie and colleagues on page 156.



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