

INSIGHTS

e20200087 **Competence against insufficiency: Why are men mostly safe from a rare and deadly prostate cancer?**

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e20200310 **NNT in NSCLC: No need to worry?**

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e20200343 ***Survivre et vivre*: When iNKT cells met a Hippo**

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VIEWPOINT

e20200702 **Personalized medicine and circadian rhythms: Opportunities for modern society**

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PERSPECTIVES

e20200652 **Targeting potential drivers of COVID-19: Neutrophil extracellular traps**

Betsy J. Barnes, Jose M. Adrover, Amelia Baxter-Stoltzfus, Alain Borczuk, Jonathan Cools-Lartigue, James M. Crawford, Juliane Daßler-Plenker, Philippe Guerci, Caroline Huynh, Jason S. Knight, Massimo Loda, Mark R. Looney, Florencia McAllister, Roni Rayes, Stephane Renaud, Simon Rousseau, Steven Salvatore, Robert E. Schwartz, Jonathan D. Spicer, Christian C. Yost, Andrew Weber, Yu Zuo, and Mikala Egeblad

e20200678 **The many faces of the anti-COVID immune response**

Santosh A. Vardhana and Jedd D. Wolchok

BRIEF DEFINITIVE REPORTS

e20191787 **Genetic manipulation of LKB1 elicits lethal metastatic prostate cancer**

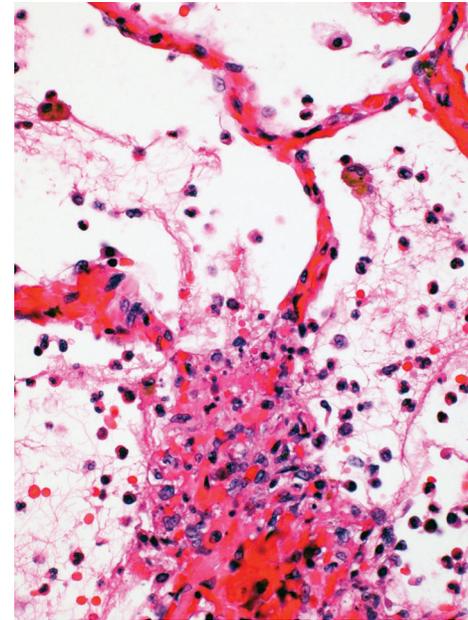
Ivana Hermanova, Patricia Zúñiga-García, Alfredo Caro-Maldonado, Sonia Fernandez-Ruiz, Fernando Salvador, Natalia Martín-Martín, Amaia Zabala-Letona, Marc Nuñez-Olle, Verónica Torrano, Laura Camacho, Jose M. Lizcano, Ana Talamillo, Suzanne Carreira, Bora Gurel, Ana R. Cortazar, Marc Guiu, Jose I. López, Anabel Martínez-Romero, Ianire Astobiza, Lorea Valcarcel-Jimenez, Mar Lorente, Amaia Arruabarrena-Aristorena, Guillermo Velasco, Antonio Gomez-Muñoz, Cristian Suárez-Cabrera, Iris Lodewijk, Juana M. Flores, James D. Sutherland, Rosa Barrio, Johann S. de Bono, Jesús M. Paramio, Jan Trka, Mariona Graupera, Roger R. Gomis, and Arkaitz Carracedo

e20191257 **Combined deletion of *Bap1*, *Nf2*, and *Cdkn2ab* causes rapid onset of malignant mesothelioma in mice**

Jitendra Badhai, Gaurav Kumar Pandey, Ji-Ying Song, Oscar Krijgsman, Rajith Bhaskaran, Gayathri Chandrasekaran, Min-chul Kwon, Lorenzo Bombardelli, Kim Monkhorst, Cristoforo Grasso, John Zevenhoven, Jan van der Vliet, Miranda Cozijnsen, Paul Krimpenfort, Daniel Peeper, Maarten van Lohuizen, and Anton Berns

e20191212 **Endothelial mTOR maintains hematopoiesis during aging**

Pradeep Ramalingam, Michael G. Poulos, Michael C. Gutkin, Elizabeth Katsnelson, Ana G. Freire, Elisa Lazzari, and Jason M. Butler



ON THE COVER

Barnes et al. discuss the role of neutrophil extracellular traps in driving COVID-19 pathology. The cover shows the presence of neutrophils in an autopsy specimen from the lungs of a patient who succumbed to COVID-19.

Image © Barnes et al., 2020.
<https://doi.org/10.1084/jem.20200652>

e20190634 **ACKR4 restrains antitumor immunity by regulating CCL21**
Carly E. Whyte, Maleika Osman, Ervin E. Kara, Caitlin Abbott, Jade Foeng, Duncan R. McKenzie, Kevin A. Fenix, Yuka Harata-Lee, Kerrie L. Foyle, Sarah T. Boyle, Marina Kochetkova, Amelia Roman Aguilera, Jiajie Hou, Xian-Yang Li, Mark A. Armstrong, Stephen M. Pederson, Iain Comerford, Mark J. Smyth, and Shaun R. McColl

TECHNICAL ADVANCES AND RESOURCES

e20192362 **Single-cell RNA sequencing of murine islets shows high cellular complexity at all stages of autoimmune diabetes**
Pavel N. Zakharov, Hao Hu, Xiaoxiao Wan, and Emil R. Unanue

ARTICLES

e20191804 **Dominant-negative mutations in human *IL6ST* underlie hyper-IgE syndrome**
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e20191157 **Hippo/Mst signaling coordinates cellular quiescence with terminal maturation in iNKT cell development and fate decisions**
Jana L. Raynor, Chaohong Liu, Yogesh Dhungana, Cliff Guy, Nicole M. Chapman, Hao Shi, Geoffrey Neale, Hiromi Sesaki, and Hongbo Chi

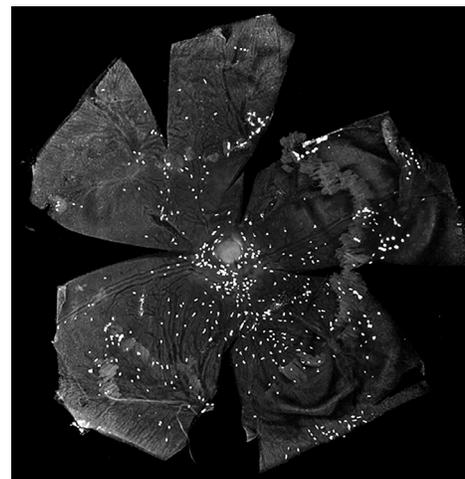
e20190812 **CNS-localized myeloid cells capture living invading T cells during neuroinflammation**
Beatrice Wasser, Dirk Luchtman, Julian Löffel, Kerstin Robohm, Katharina Birkner, Albrecht Stroh, Christina Francisca Vogelaar, Frauke Zipp, and Stefan Bittner

e20190730 **Single cell profiling reveals an endothelium-mediated immunomodulatory pathway in the eye choroid**
Guillermo L. Lehmann, Christin Hanke-Gogokhia, Yang Hu, Rohan Bareja, Zeldá Salfati, Michael Ginsberg, Daniel J. Nolan, Santiago P. Mendez-Huergo, Tomas Dalotto-Moreno, Alexandre Wojcinski, Francisca Ochoa, Shemin Zeng, Juan P. Cerliani, Lampros Panagis, Patrick J. Zager, Robert F. Mullins, Shuntaro Ogura, Gerard A. Luty, Jakyung Bang, Jonathan H. Zippin, Carmelo Romano, Gabriel A. Rabinovich, Olivier Elemento, Alexandra L. Joyner, Shahin Rafii, Enrique Rodriguez-Boulan, and Ignacio Benedicto

e20190402 **Hepatic stellate cell-specific knockout of transcriptional intermediary factor 1 γ aggravates liver fibrosis**
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e20191284 **Continuous mitotic activity of primitive hematopoietic stem cells in adult mice**
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e20191689 **Nicotinamide nucleotide transhydrogenase regulates mitochondrial metabolism in NSCLC through maintenance of Fe-S protein function**
Nathan P. Ward, Yun Pyo Kang, Aimee Falzone, Theresa A. Boyle, and Gina M. DeNicola



Endothelial immunomodulation in the eye choroid

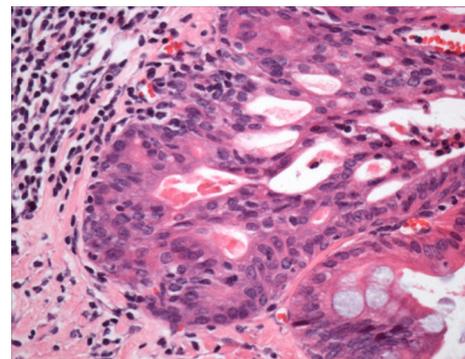
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<https://doi.org/10.1084/jem.20190730>

e20191005 **PRDM16 suppresses HIF-targeted gene expression in kidney cancer**

Anirban Kundu, Hyeyoung Nam, Sandeep Shelar, Darshan S. Chandrashekar, Garrett Brinkley, Suman Karki, Tanecia Mitchell, Carolina B. Livi, Phillip Buckhaults, Richard Kirkman, Yawen Tang, Glenn C. Rowe, Shi Wei, Sooryanarayana Varambally, and Sunil Sudarshan

e20191817 **MST4 kinase suppresses gastric tumorigenesis by limiting YAP activation via a non-canonical pathway**

Liwei An, Pingping Nie, Min Chen, Yang Tang, Hui Zhang, Jingmin Guan, Zhifa Cao, Chun Hou, Wenjia Wang, Yun Zhao, Huixiong Xu, Shi Jiao, and Zhaocai Zhou



Modeling lethal metastatic prostate cancer

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