

# nature immunology





## MEETING REPORT

- 1** **Antibody gene transfer for HIV immunoprophylaxis**  
Alejandro B Balazs & Anthony P West Jr

## COMMENTARY

- 6** **Job-search basics: how to convert a CV into a resume**  
Derek Haseltine

## NEWS AND VIEWS

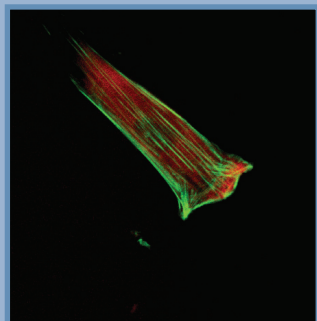
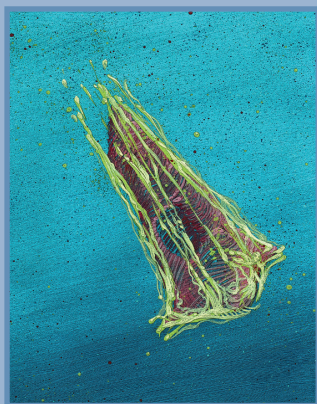
- 10** ***T. rex* attacks the lysosome**  
Anna Katharina Simon & Andrea Ballabio  *see also p 61*
- 12** **Just say NO to NLRP3**  
Manira Rayamajhi & Edward A Miao  *see also p 52*
- 14** **Learning in motion: pericytes instruct migrating innate leukocytes**  
Ronen Alon & Sussan Nourshargh  *see also p 41*
- 16** **Act1-hsp90 heats up T<sub>H</sub>17 inflammation**  
Pawan Kumar & Jay K Kolls  *see also p 72*
- 18** **RESEARCH HIGHLIGHTS**

## REVIEW

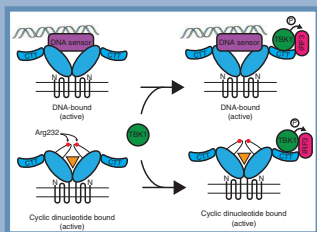
- 19** **STING and the innate immune response to nucleic acids in the cytosol**  
Dara L Burdette & Russell E Vance

## ARTICLES

- 27** **ARIH2 is essential for embryogenesis, and its hematopoietic deficiency causes lethal activation of the immune system**  
Amy E Lin, Gregor Ebert, Yongkai Ow, Simon P Preston, Jesse G Toe, James P Cooney, Hamish W Scott, Masato Sasaki, Samuel D Saibil, Dilan Dissanayake, Raymond H Kim, Andrew Wakeham, Annick You-Ten, Arda Shahinian, Gordon Duncan, Jennifer Silvester, Pamela S Ohashi, Tak W Mak & Marc Pellegrini
- 34** **Neutrophil infiltration during inflammation is regulated by PILR $\alpha$  via modulation of integrin activation**  
Jing Wang, Ikuo Shiratori, Junji Uehori, Masahito Ikawa & Hisashi Arase



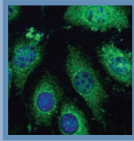
The signals that coordinate the navigation of myeloid cells in tissues are incompletely understood. Massberg and colleagues show that NG2<sup>+</sup> pericytes control the pattern and efficacy of the interstitial migration of leukocytes (p 41; News and Views by Alon & Nourshargh, p 14). The original confocal microscopy image shows the intracellular localization of the chemoattractant MIF in a resting human pericyte stained *in vitro* for MIF (red) and F-actin (green). Original image by Konstantin Stark. Artwork by Lewis Long.



Sensing STING (p 19)



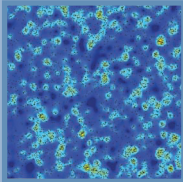
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Trex1-regulated responses  
(pp 10 and 61)



Psoriasis susceptibility (pp 16 and 72)



Lck clustering (p 82)

- 41 Capillary and arteriolar pericytes attract innate leukocytes exiting through venules and ‘instruct’ them with pattern-recognition and motility programs**  
Konstantin Stark, Annekathrin Eckart, Selgai Haidari, Anca Tirniceriu, Michael Lorenz, Marie-Luise von Brühl, Florian Gärtner, Alexander Georg Khandoga, Kyle R Legate, Robert Pless, Ingrid Hepper, Kirsten Lauber, Barbara Walzog & Steffen Massberg  *see also p 14*
- 52 Nitric oxide controls the immunopathology of tuberculosis by inhibiting NLRP3 inflammasome–dependent processing of IL-1 $\beta$**   
Bibhuti B Mishra, Vijay A K Rathinam, Gregory W Martens, Amanda J Martinot, Hardy Kornfeld, Katherine A Fitzgerald & Christopher M Sasseti  *see also p 12*
- 61 Trex1 regulates lysosomal biogenesis and interferon-independent activation of antiviral genes**  
Maroof Hasan, James Koch, Dinesh Rakheja, Asit K Pattnaik, James Brugarolas, Igor Dozmorov, Beth Levine, Edward K Wakeland, Min Ae Lee-Kirsch & Nan Yan  *see also p 10*
- 72 The psoriasis-associated D10N variant of the adaptor Act1 with impaired regulation by the molecular chaperone hsp90**  
Chenhui Wang, Ling Wu, Katarzyna Bulek, Bradley N Martin, Jarod A Zepp, Zizhen Kang, Caini Liu, Tomasz Herjan, Saurav Misra, Julie A Carman, Ji Gao, Ashok Dongre, Shujie Han, Kevin D Bunting, Jennifer S Ko, Hui Xiao, Vijay K Kuchroo, Wenjun Ouyang & Xiaoxia Li  *see also p 16*
- 82 Conformational states of the kinase Lck regulate clustering in early T cell signaling**  
J r mie Rossy, Dylan M Owen, David J Williamson, Zhengmin Yang & Katharina Gaus

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## RESOURCE

- 90 Shared and distinct transcriptional programs underlie the hybrid nature of *i*NKT cells**  
Nadia R Cohen, Patrick J Brennan, Tal Shay, Gerald F Watts, Manfred Brigl, Joonsoo Kang, Michael B Brenner & The Immunological Genome Project Consortium
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## NATURE IMMUNOLOGY CLASSIFIED

See back pages.