

EDITORIAL

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Choking on mitochondria
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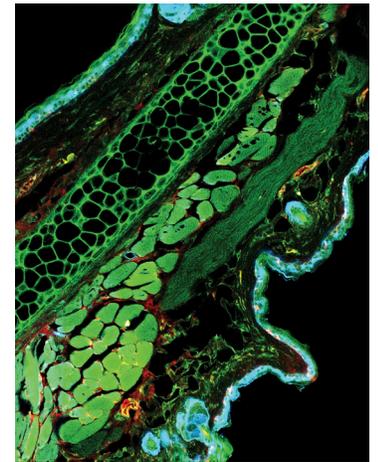
BRIEF DEFINITIVE REPORTS

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- 3077 **Noncanonical Wnt signaling promotes apoptosis in thymocyte development**
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- 3085 **A human postnatal lymphoid progenitor capable of circulating and seeding the thymus**
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- 3095 **B cell-intrinsic TLR signals amplify but are not required for humoral immunity**
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ON THE COVER

A new population of dendritic cells expressing the lectin langerin resides in the dermis of the skin. Related articles by Poulin, Ginhoux, and Bursch.

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3103 Talin is required for integrin-mediated platelet function in hemostasis and thrombosis
Brian G. Petrich, Patrizia Marchese, Zaverio M. Ruggeri, Saskia Spiess, Rachel A.M. Weichert, Feng Ye, Ralph Tiedt, Radek C. Skoda, Susan J. Monkley, David R. Critchley, and Mark H. Ginsberg

3113 Loss of talin1 in platelets abrogates integrin activation, platelet aggregation, and thrombus formation in vitro and in vivo
Bernhard Nieswandt, Markus Moser, Irina Pleines, David Varga-Szabo, Sue Monkley, David Critchley, and Reinhard Fässler

ARTICLES

3119 The dermis contains langerin⁺ dendritic cells that develop and function independently of epidermal Langerhans cells
Lionel Franz Poulin, Sandrine Henri, Béatrice de Bovis, Elisabeth Devilard, Adrien Kissenpfennig, and Bernard Malissen
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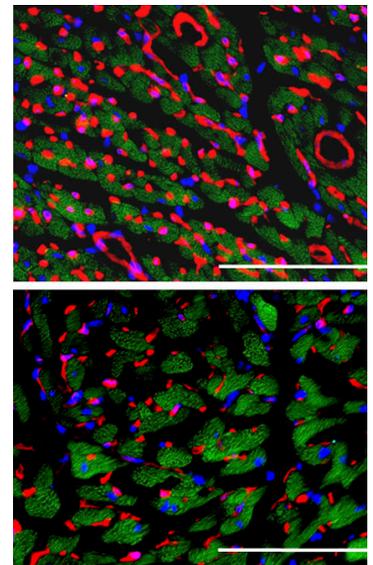
3133 Blood-derived dermal langerin⁺ dendritic cells survey the skin in the steady state
Florent Ginhoux, Matthew P. Collin, Milena Bogunovic, Michal Abel, Marylene Leboeuf, Julie Helft, Jordi Ochando, Adrien Kissenpfennig, Bernard Malissen, Marcos Grisotto, Hans Snoeck, Gwendalyn Randolph, and Miriam Merad
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3147 Identification of a novel population of Langerin⁺ dendritic cells
Laura S. Bursch, Liangchun Wang, Botond Igyarto, Adrien Kissenpfennig, Bernard Malissen, Daniel H. Kaplan, and Kristin A. Hogquist
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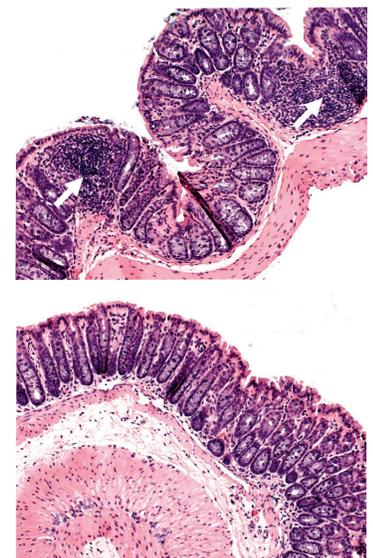
3157 Dual GPCR and GAG mimicry by the M3 chemokine decoy receptor
Jennifer M. Alexander-Brett and Daved H. Fremont

3173 Bronchial smooth muscle remodeling involves calcium-dependent enhanced mitochondrial biogenesis in asthma
Thomas Trian, Giovanni Benard, Hugues Begueret, Rodrigue Rossignol, Pierre-Olivier Girodet, Debajyoti Ghosh, Olga Ousova, Jean-Marc Vernejoux, Roger Marthan, José-Manuel Tunon-de-Lara, and Patrick Berger
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3183 Amelioration of epidermal hyperplasia by TNF inhibition is associated with reduced Th17 responses
Lisa C. Zaba, Irma Cardinale, Patricia Gilleaudeau, Mary Sullivan-Whalen, Mayte Suárez Fariñas, Judilyn Fuentes-Duculan, Inna Novitskaya, Artemis Khatcherian, Mark J. Bluth, Michelle A. Lowes, and James G. Krueger
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The density of capillaries (green) of injured hearts increases (top) after injection with endothelial progenitor cells.
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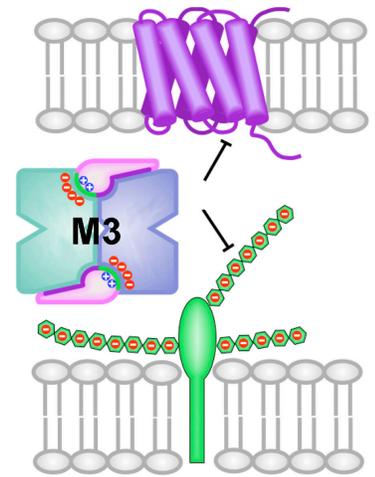


Mice lacking the membrane protein JAM-A develop inflammatory lymphoid cell clusters (white arrows) in the intestinal lumen.
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- 3195 **Multiple, conserved cryptic recombination signals in V_H gene segments: detection of cleavage products only in pro-B cells**
Marco Davila, Feifei Liu, Lindsay G. Cowell, Anne E. Lieberman, Emily Heikamp, Anjali Patel, and Garnett Kelsoe
- 3209 **Dependence of antibody gene diversification on uracil excision**
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- 3221 **Antiribosomal-P autoantibodies from psychiatric lupus target a novel neuronal surface protein causing calcium influx and apoptosis**
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- 3235 **Immune recognition of *Pseudomonas aeruginosa* mediated by the IPAF/NLRC4 inflammasome**
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- 3247 **Chromosomal position of a V_H gene segment determines its activation and inactivation as a substrate for V(D)J recombination**
Jamie Geier Bates, Dragana Cado, Hector Nolla, and Mark S. Schlissel
- 3257 **Role of host tissues for sustained humoral effects after endothelial progenitor cell transplantation into the ischemic heart**
Hyun-Jai Cho, Namho Lee, Ji Yoon Lee, Yong Jin Choi, Masaaki Ii, Andrea Wecker, Jin-Ok Jeong, Cynthia Curry, Gangian Qin, and Young-sup Yoon
- 3271 **Heavy chain-only antibodies are spontaneously produced in light chain-deficient mice**
Xiangang Zou, Michael J. Osborn, Daniel J. Bolland, Jennifer A. Smith, Daniel Corcos, Maureen Hamon, David Oxley, Amanda Hutchings, Geoff Morgan, Fatima Santos, Peter J. Kilshaw, Michael J. Taussig, Anne E. Corcoran, and Marianne Brüggemann
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- 3285 **$\text{I}\kappa\text{B}$ kinase β -induced phosphorylation of CARMA1 contributes to CARMA1-Bcl10-MALT1 complex formation in B cells**
Hisaki Shinohara, Shiori Maeda, Hiroshi Watarai, and Tomohiro Kurosaki

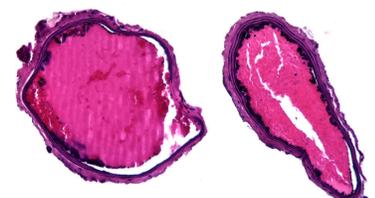
CORRECTIONS

- 3295 **APE1- and APE2-dependent DNA breaks in immunoglobulin class switch recombination**
Jeroen E.J. Guikema, Erin K. Linehan, Daisuke Tsuchimoto, Yusaku Nakabeppu, Phyllis R. Strauss, Janet Stavnezer, and Carol E. Schrader



The herpesvirus protein M3 dampens inflammation by blocking the binding of chemokines (pink) to their receptors (purple) and to cell surface sugars (green).

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An injured artery accumulates platelet-filled clots (left), but platelets do not accumulate in the absence of Talin-1 (right).

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