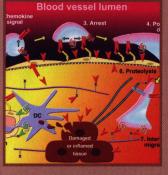


Image depicting the four cardinal signs of inflammation — redness, heat, swelling and pain — originally described by the Roman Aulus Cornelius Celsus in the first century AD. This month we focus on how inflammation is resolved in a series of specially commissioned review articles. These articles and additional features are available free online (www.nature.com.ni/focus/inflammation/index.html) during December 2005. Artwork by Lewis Long.



Inflammatory signals (p 1182)

nature immunology

EDITORIAL

1177 Get the balance right

OVERVIEW

1179 Dampening inflammation
Peter M Henson

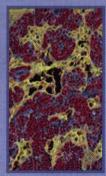
REVIEWS

- 1182 Immune cell migration in inflammation: present and future therapeutic targets Andrew D Luster, Ronen Alon & Ulrich H von Andrian
- 1191 Resolution of inflammation: the beginning programs the end Charles N Serhan & John Savill
- 1198 Limiting inflammatory responses during activation of innate immunity
 Jiahuai Han & Richard J Ulevitch

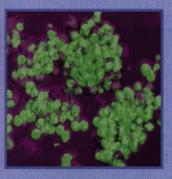
1206 RESEARCH HIGHLIGHTS



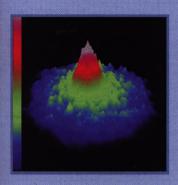
Nature Immunology (ISSN 1529-2908) is published monthly by Nature Publishing Group, a trading name of Nature America Inc. located at 345 Park Avenue South, New York, NY 10010-1707. Periodicals postage paid at New York, NY and additional mailing post offices. Editorial Office: 345 Park Avenue South, New York, NY 10010-1707. Tel: (212) 726 9207, Fax: (212) 696 9752. Annual subscription rates: USA/Canada: US\$199 (personal), US\$1,440 (institution). Canada add 7% GST #104911595RT001; Euro-zone: €271 (personal), €1,240 (institution); Rest of world (excluding China, Japan, Korea): £175 (personal), £800 (institution); Japan: Contact Nature Japan K.K., MG Ichigaya Building 5F, 19-1 Haraikatamachi, Shinjuku-ku, Tokyo 162-0841. Tel: ₹31 (03) 3267 8751, Fax: \$1 (03) 3267 8746. POSTMASTER: Send address changes to Nature Immunology, Subscriptions Department, 303 Park Avenue South #1280, New York, NY 10010-3601. Authorization to photocopy material for internal or personal use, or internal or personal use of specific clients, is granted by Nature Publishing Group to libraries and others registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided the relevant copyright fee is paid direct to CCC, 222 Rosewood Drive, Danvers, MA 01923, USA. Identification code for Nature Immunology. 1529-2908/04. Back issues: US\$45, Canada add 7% for GST. CPC PUB AGREEMENT #40032744. Printed on acid-free paper by Dartmouth Journal Services, Hanover, NH, USA. Copyright © 2005 Nature Publishing Group. Frinted in USA.



Visualizing egress (pp 1215 and 1228)



Regulating T_H1 (p 1245)



Signaling clusters (pp 1213 and 1253)

MEETING REPORT

1207 Breaking down the barriers to cancer immunotherapy Ellen Puré, James P Allison & Robert D Schreiber

NEWS AND VIEWS

- 1211 Pin1: a proline isomerase that makes you wheeze?
 Paul Anderson
 - see also p 1280
- 1213 Microclusters initiate and sustain T cell signaling
 Alain Trautmann
 - see also p 1253
- 1215 Signals for lymphocyte egress

Klaus Ley & Maggie Morris

- See also p 1228
- 1217 RESEARCH HIGHLIGHTS

ARTICLES

- 1219 Inducing and expanding regulatory T cell populations by foreign antigen
 Karsten Kretschmer, Irina Apostolou, Daniel Hawiger, Khashayarsha Khazaie,
 Michel C Nussenzweig & Harald von Boehmer
- 1228 Sphingosine 1-phosphate type 1 receptor agonism inhibits transendothelial migration of medullary T cells to lymphatic sinuses
 Sindy H Wei, Hugh Rosen, Melanie P Matheu, M Germana Sanna, Sheng-Kai Wang, Euijung Jo, Chi-Huey Wong, Ian Parker & Michael D Cahalan
 ** see also p 1215
- 1236 Effector and memory CD8+ T cell fate coupled by T-bet and eomesodermin
 Andrew M Intlekofer, Naofumi Takemoto, E John Wherry, Sarah A Longworth,
 John T Northrup, Vikram R Palanivel, Alan C Mullen, Christopher R Gasink,
 Susan M Kaech, Joseph D Miller, Laurent Gapin, Kenneth Ryan, Andreas P Russ,
 Tullia Lindsten, Jordan S Orange, Ananda W Goldrath, Rafi Ahmed & Steven L Reiner
- 1245 The Tim-3 ligand galectin-9 negatively regulates T helper type 1 immunity Chen Zhu, Ana C Anderson, Anna Schubart, Huabao Xiong, Jaime Imitola, Samia J Khoury, Xin Xiao Zheng, Terry B Strom & Vijay K Kuchroo
- 1253 Newly generated T cell receptor microclusters initiate and sustain T cell activation by recruitment of Zap70 and SLP-76

Tadashi Yokosuka, Kumiko Sakata-Sogawa, Wakana Kobayashi, Michio Hiroshima, Akiko Hashimoto-Tane, Makio Tokunaga, Michael L Dustin & Takashi Saito see also p 1213

- 1263 Interleukin 15 controls the generation of the restricted T cell receptor repertoire of $\gamma\delta$ intestinal intraepithelial lymphocytes Hang Zhao. Hai Nguyen & Joonsoo Kang
- 1272 Single-strand recombination signal sequence nicks *in vivo*: evidence for a capture model of synapsis

 John D Curry, Jamie K Geier & Mark S Schlissel
- 1280 The peptidyl-prolyl isomerase Pin1 regulates the stability of granulocyte-macrophage colony-stimulating factor mRNA inactivated eosinophils Zhong-Jian Shen, Stephane Esnault & James S Malter see also p 1211

NATURE IMMUNOLOGY CLASSIFIED

See back pages.