

# Leading Edge

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- 840 A Conserved SREBP-1/Phosphatidylcholine Feedback Circuit Regulates Lipogenesis in Metazoans  
*A.K. Walker, R.L. Jacobs, J.L. Watts, V. Rottiers, K. Jiang, D.M. Finnegan, T. Shioda, M. Hansen, F. Yang, L.J. Niebergall, D.E. Vance, M. Tzoneva, A.C. Hart, and A.M. Näär*
- 853 Systematic Discovery of TLR Signaling Components Delineates Viral-Sensing Circuits  
*N. Chevrier, P. Mertins, M.N. Artyomov, A.K. Shalek, M. Iannaccone, M.F. Ciaccio, I. Gat-Viks, E. Torti, M.M. DeGrace, K.R. Clouser, M. Garber, T.M. Eisenhaure, N. Yosef, J. Robinson, A. Sutton, M.S. Andersen, D.E. Root, U. von Andrian, R.B. Jones, H. Park, S.A. Carr, A. Regev, I. Amit, and N. Hacohen*
- 868 CD14 Controls the LPS-Induced Endocytosis of Toll-like Receptor 4  
*I. Zanoni, R. Ostuni, L.R. Marek, S. Barresi, R. Barbalat, G.M. Barton, F. Granucci, and J.C. Kagan*
- 881 A Network of Broadly Expressed HLH Genes Regulates Tissue-Specific Cell Fates  
*A. Bhattacharya and N.E. Baker*

(continued)

- 893 PINK1 and Parkin Target Miro for Phosphorylation and Degradation to Arrest Mitochondrial Motility *X. Wang, D. Winter, G. Ashrafi, J. Schlehe, Y.L. Wong, D. Selkoe, S. Rice, J. Steen, M.J. LaVoie, and T.L. Schwarz*
- 907 Regulation of the Probability of Mouse Odorant Receptor Gene Choice *M. Khan, E. Vaes, and P. Mombaerts*
- 922 The Neural Circuits and Synaptic Mechanisms Underlying Motor Initiation in *C. elegans* *B.J. Piggott, J. Liu, Z. Feng, S.A. Wescott, and X.Z.S. Xu*

## THEORY

- 934 A Mechanism for the Evolution of Phosphorylation Sites *S.M. Pearlman, Z. Serber, and J.E. Ferrell, Jr.*

## CORRECTION

- 947 A Long Noncoding RNA Controls Muscle Differentiation by Functioning as a Competing Endogenous RNA *M. Cesana, D. Cacchiarelli, I. Legnini, T. Santini, O. Sthandier, M. Chinappi, A. Tramontano, and I. Bozzoni*

## ERRATA

- 948 In Vivo Identification of Tumor-Suppressive PTEN ceRNAs in an Oncogenic BRAF-Induced Mouse Model of Melanoma *F.A. Karreth, Y. Tay, D. Perna, U. Ala, S.M. Tan, A.G. Rust, G. DeNicola, K.A. Webster, D. Weiss, P.A. Perez-Mancera, M. Krauthammer, R. Halaban, P. Provero, D.J. Adams, D.A. Tuveson, and P.P. Pandolfi*
- 948 Molecular Mechanisms of Fear Learning and Memory *J.P. Johansen, C.K. Cain, L.E. Ostroff, and J.E. LeDoux*

## ANNOUNCEMENTS

## POSITIONS AVAILABLE

On the cover: Viruses signal their presence to the immune system when they activate membrane and cytosolic receptors. In this issue, Chevrier et al. (pp. 853–867) uncover 35 antiviral signaling regulators, including 19 new members, involved in Toll-like receptor (TLR) pathways. In particular, they find that Polo-like kinases (Plks) are shared components of well-established antiviral pathways. The cover image depicts these antiviral-sensing pathways as a radar system in a dendritic cell that scans for new intruders using intracellular pathways with Plks. Artwork by Sigrid Knemeyer.

