NEWS & COMMENT

OSTP: A Mixed Midterm Report
Committee, Anyone?

192

U.S. Tells CERN to Wait for Support

195

Senate Votes R&D Cuts, ATP Trimmed

Claim-Jumping Charges Ignite
Controversy at Meeting

Greenhouse Gases: Rio Signatories to Negotiate New Goals

Amateur Fossil Hunters Dig Up Trouble in Montana

Hubble Gets Help From a Cosmic Lens

RESEARCH NEWS

Dendrites Shed Their Dull Image

Extreme Ultraviolet Satellites Open New View of the Sky

Found: Ash From the First Stars?

Parasitology: Trypanosome Mystery Solved?

Cytokines Move From the Margins Into the Spotlight

ARTICLES

SIGNAL TRANSDUCTION

Protein Lipidation in Cell Signaling
P. J. Casey

Notch Signaling
S. Artavanis-Tsakonas, K. Matsuno, M. E. Fortini

Integrins and Signal Transduction
Pathways: The Road Taken
E. A. Clark and J. S. Brugge

Calcium Signaling in Neurons:
Molecular Mechanisms and Cellular Consequences
A. Ghosh and M. E. Greenberg

Localization of Protein Kinases by Anchoring Proteins: A Theme in Signal Transduction
D. Mohrly-Rosen

Cytokine Signaling Through Nonreceptor Protein Tyrosine Kinases
T. Taniguchi

POLICY FORUM

A Temporary Bridge
J. Roberts

DEPARTMENTS

THIS WEEK IN SCIENCE

181

EDITORIAL

183

Signals and Communication

LETTERS

185


Shaffer, M. Blecher, J. P. Isacson, R. C. Peet • Low-Barrier Hydrogen Bonds: P. A. Frey

SCIENCESCOPE

191

RANDOM SAMPLES

207

BOOK REVIEWS

318

PRODUCTS & MATERIALS

319

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During development of the *Drosophila* compound eye, the correct specification of many different cell types depends on the signaling activity of the Notch receptor protein. In the larval eye imaginal disc, expression of a truncated, nuclear form of Notch (green) prevents cells from differentiating as neurons (red). See page 225 and other related Articles beginning on page 221 in this special issue on signal transduction. [Image: M. E. Fortini and S. Artavanis-Tsakonas]

**PERSPECTIVES**

Tyrosine Phosphatases and the Antibody Response
A. L. DeFranco and D. A. Law

Green Fluorescent Pets
D. C. Youvan

**REPORTS**

Spin Crossover in a Catenane
J. A. Real, E. Andrés, M. C. Muñoz, M. Julve, T. Granier, A. Bouskela, F. Varret

Imaging the Condensation and Evaporation of Molecularly Thin Films of Water with Nanometer Resolution

Organic Transistors: Two-Dimensional Transport and Improved Electrical Characteristics
A. Doda-balapur, L. Torsi, H. E. Katz

A Strategy for the Chemical Synthesis of Nanostructures
W. T. Müller, D. L. Klein, T. Lee, J. Clarke, P. L. McEuen, F. G. Schultz

Testing Cosmogonic Models with Gravitational Lensing
J. Wambsganss, R. Cen, J. P. Ostriker, E. L. Turner

Imaging the Pore Structure of Geomaterials
J. T. Fredrich, B. Menéndez, T.-F. Wong

A Modular Steel Freeway Bridge: Design Concept and Earthquake Resistance
W. H. Wattenburg, D. B. McCallen, R. C. Murray

**Specific DNA-RNA Hybrid Binding by**

Zinc Finger Proteins
Y. Shi and J. M. Berg

 Killing of Trypanosomes by the Human Haptoglobin-Related Protein
A. B. Smith, J. D. Esko, S. L. Hajduk

Identification of a Dual Specificity Kinase That Activates the Jun Kinases and p38-Mpk2

Crystal Structure of the Mammalian Grb2 Adaptor
S. Maingon, J.-P. Guilloteau, N. Fromage, B. Arnoux, J. Becquart, A. Ducruix

Recruitment and Activation of PTP1C in Negative Regulation of Antigen Receptor Signaling by FcγRIIB1

Activity-Dependent Action Potential Invasion and Calcium Influx into Hippocampal CA1 Dendrites
N. Spruston, Y. Schiller, G. Stuart, B. Sakmann

Synaptic Activation of Voltage-Gated Channels in the Dendrites of Hippocampal Pyramidal Neurons
J. C. Magee and D. Johnston

Silver as a Probe of Pore-Forming Residues in a Potassium Channel
Q. Lü and C. Miller

Revealing the Architecture of a K+ Channel Pore Through Mutant Cycles with a Peptide Inhibitor
P. Hidalgo and R. MacKinnon

265

Spins and interlocking layers
268 (5208)

Science 268 (5208), 181-319.

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