NEWS & COMMENT

OSTP: A Mixed Midterm Report 192
Committee, Anyone?

U.S. Tells CERN to Wait for Support 193

Senate Votes R&D Cuts, ATP Trimmed 195

Claim-Jumping Charges Ignite
Controversy at Meeting 196

Greenhouse Gases: Rio Signatories to
Negotiate New Goals 197

Amateur Fossil Hunters Dig Up
Trouble in Montana 198

Hubble Gets Help From a Cosmic Lens 199

POLICY FORUM

A Temporary Bridge 205
J. Roberts

Cytokines Move From the Margins Into
the Spotlight

ARTICLES

SIGNAL TRANSDUCTION

Protein Lipidation in Cell Signaling 221
P. J. Casey

Notch Signaling 225
S. Artavanis-Tsakonas, K. Matsuno, M. E. Fortini

Integrins and Signal Transduction
Pathways: The Road Taken 233
E. A. Clark and J. S. Brugge

Calcium Signaling in Neurons:
Molecular Mechanisms and Cellular
Consequences 239
A. Ghosh and M. E. Greenberg

Localization of Protein Kinases by
Anchoring Proteins: A Theme in
Signal Transduction 247
D. Mochly-Rosen

Cytokine Signaling Through Nonreceptor
Protein Tyrosine Kinases 251
T. Taniguchi

RESEARCH NEWS

Dendrites Shed Their Dull Image 200

Extreme Ultraviolet Satellites Open New
View of the Sky 202

Found: Ash From the First Stars? 203

Parasitology: Trypanosome Mystery
Solved? 204
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 263

**Green Fluorescent Pets**
D. C. Youvan 264

**REPORTS**

Spin Crossover in a Catenane 265

Supramolecular System
J. A. Real, E. Andrés, M. C. Muñoz, M. Julve, T. Granier, A. Boussakos, 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. Dodabalapur, L. Torsi, H. E. Katz

A Strategy for the Chemical Synthesis of Nanostructures

Testing Cosmogenic Models with Gravitational Lensing
J. Wambgsanss, 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 282

Killing of Trypanosomes by the Human Haptoglobin-Related Protein
A. B. Smith, J. D. Esko, S. L. Hajduk 284

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

Crystal Structure of the Mammalian Grb2 Adaptor
S. Maigain, J.-P. Guilloteau, N. Fromage, B. Arnoux, J. Becquart, A. Ducruix 291

Recruitment and Activation of PTP1C in Negative Regulation of Antigen Receptor Signaling by FcyRIIB1
D. D'Ambrosio, K. L. Hippen, S. A. Minskoff, I. Mellman, G. Pani, K. A. Siminovich, J. C. Cambier 293

Activity-Dependent Action Potential Invasion and Calcium Influx into Hippocampal CA1 Dendrites
N. Spruston, Y. Schiller, G. Stuart, B. Sakmann 297

Synaptic Activation of Voltage-Gated Channels in the Dendrites of Hippocampal Pyramidal Neurons
J. C. Magee and D. Johnston 301

Silver as a Probe of Pore-Forming Residues in a Potassium Channel
Q. Lu and C. Miller 304

Revealing the Architecture of a K* Channel Pore Through Mutant Cycles with a Peptide Inhibitor
P. Hidalgo and R. MacKinnon 307

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