

SPECIAL SECTION

## Science, Language, and Literacy

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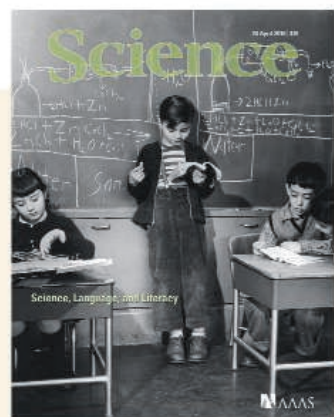
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*Photo: Nina Leen/Time Life Pictures/Getty Images*

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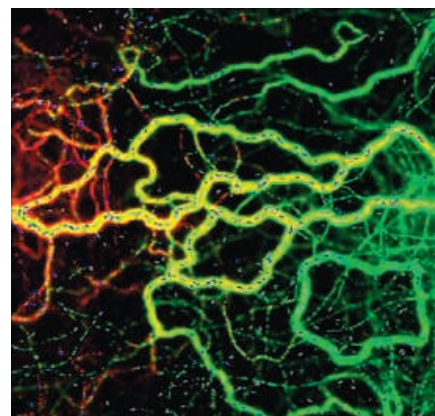
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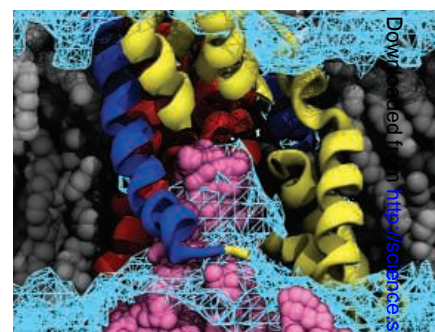
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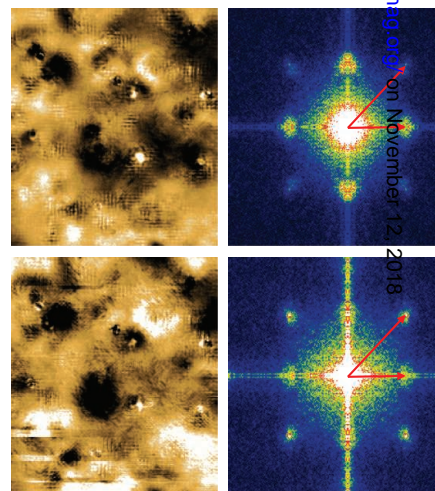
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## SCIENCEONLINE

## SCIENCEEXPRESS

[www.sciencexpress.org](http://www.sciencexpress.org)

### Nanoscale Three-Dimensional Patterning of Molecular Resists by Scanning Probes

*D. Pires et al.*

A molecular glass can be patterned to dimensions of tens of nanometers with a heated scanning probe tip.  
10.1126/science.1187851

### Small Silencing RNAs in Plants Are Mobile and Direct Epigenetic Modification in Recipient Cells

*A. Molnar et al.*

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### Small RNA Duplexes Function as Mobile Silencing Signals Between Plant Cells

*P. Dunoyer et al.*

Small double-stranded interfering RNAs move between cells and can direct DNA methylation.  
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### Neural Crest-Derived Pericytes Promote Egress of Mature Thymocytes at the Corticomedullary Junction

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10.1126/science.1188222

### The Onset of Collective Behavior in Social Amoebae

*T. Gregor et al.*

Stochastic pulsing of individual cells plays a critical role in initiating cyclic adenosine monophosphate pulses.  
10.1126/science.1183415

## SCIENCENOW

[www.sciencenow.org](http://www.sciencenow.org)

Highlights From Our Daily News Coverage

### Good Dogs Live Longer

A breed's temperament affects its longevity, study finds.

### Researchers Solve the Mystery of the Zodiacal Light

Disintegrating comets generate the solar system's disk of microscopic debris.

### Quantum Cryptography Hits the Fast Lane

An improved system can distribute numerical "keys" for scrambling messages at megabit rates—fast enough to encode video.

## SCIENCESIGNALING

[www.sciencesignaling.org](http://www.sciencesignaling.org)

The Signal Transduction Knowledge Environment

### RESEARCH ARTICLE: Systems Pharmacology of Arrhythmias

*S. I. Berger et al.*

## PODCAST

*S. I. Berger et al.*

Integration of drug and protein interaction data with genetic data enables the prediction of adverse drug effects.

### JOURNAL CLUB: Competitive Outgrowth of Neural Processes Arising from Long-Distance cAMP Signaling

*B. I. Hutchins*

Differences in neurite cyclic nucleotide concentrations regulate their differential outgrowth.

### JOURNAL CLUB: TRIM Proteins—Another Class of Viral Victims

*M. Munir*

Influenza A virus suppresses the host interferon response by interfering with the RIG-I and TRIM25 antiviral molecules.

### JOURNAL CLUB: T Cells with Commitment Issues

*R. Schneider*

Some subsets of differentiated T cells retain phenotypic plasticity.

## SCIENCECAREERS

[www.sciencereers.org/career\\_magazine](http://www.sciencereers.org/career_magazine)

Free Career Resources for Scientists

### Translating the Puzzle of Autism Into Treatment

*S. Webb*

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### Teaching Science to Nonscience Majors

*E. Pain*

Faculty who teach science to nonmajors promote science literacy overall.

>> *Science, Language, and Literacy section p. 447* and [www.sciencemag.org/special/education2010/](http://www.sciencemag.org/special/education2010/)

### Science Careers Blog

*Staff and Guest Bloggers*

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## SCIENTETRANSLATIONAL MEDICINE

[www.sciencetranslationalmedicine.org](http://www.sciencetranslationalmedicine.org)

Integrating Medicine and Science

### COMMENTARY: Refocusing the War on Cancer—The Critical Role of Personalized Treatment

*A. Potti et al.*

Success in cancer therapy requires new strategies for matching treatments with individual patients.



## SCIENCECAREERS

Understanding the puzzle of autism.

### PERSPECTIVE: Drug Resistance, Epigenetics, and Tumor Cell Heterogeneity

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Acquisition of drug resistance can occur through changes at the chromatin level in subpopulations of cancer cells.

### RESEARCH ARTICLE: Lentiviral Overexpression of GRK6 Alleviates L-DOPA-Induced Dyskinesia in Experimental Parkinson's Disease

*M. R. Ahmed et al.*

G protein-coupled receptor kinase 6 alleviates dyskinesia without compromising the antiparkinsonian effect of L-DOPA.

### RESEARCH ARTICLE: Brief Suppression of *Abcc8* Prevents Autodestruction of Spinal Cord After Trauma

*J. M. Simard et al.*

Secondary injury that occurs after trauma to the spinal cord can be prevented by inhibiting expression of the gene for a calcium transporter.

## SCIENCEPODCAST

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Download the 23 April *Science* Podcast to hear about effects of teacher quality on early reading, Asian monsoon failure and megadrought, the National Ecological Observatory Network, and more.

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Science Policy News and Analysis

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