Honey bees (Apis mellifera), here shown on a honeycomb, form complex societies and interact with one another by means of stereotyped social behaviors. A special section beginning on page 891 explores what genetic approaches have taught us about behavior in bees and other species, including humans.

Image: Don Farrall, Getty Images

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The Air Noncoding RNA Epigenetically Silences Transcription by Targeting G9a to Chromatin

*T. Nagano et al.*

Air, a large noncoding RNA, interacts with chromatin at a particular promoter, recruiting a histone methyltransferase to silence gene expression in an allele-specific manner.

10.1126/science.1163802

**PLANETARY SCIENCE**

Long-Lived Volcanism on the Lunar Farside Revealed by SELENE Terrain Camera

*J. Haruyama et al.*

Images of the Moon by the SELENE spacecraft and revised dates of lava flows by crater counts imply that episodic volcanism on the farside lasted to 2.5 billion years ago.

10.1126/science.1163382

**MOLECULAR BIOLOGY**

Photoexcited CRY2 Interacts with CIB1 to Regulate Transcription and Floral Initiation in Arabidopsis

*H. Liu, X. Yu, K. Li, J. Kleijn, H. Yang, D. Listero, C. Lin*

Blue light triggers the association of a photoreceptor, transcription factor, and DNA site, thus inducing expression of the gene FT (flowering time) and initiating flowering.

10.1126/science.1163927

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full text at www.sciencemag.org/cgi/content/full/322/5903/857a

Response to Comment on "Whole-Genome Shotgun Sequencing of Mitochondria from Ancient Hair Shafts"

*M. T. P. Gilbert, W. Miller, S. C. Schuster*

full text at www.sciencemag.org/cgi/content/full/322/5903/857b

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*G. R. McDonald et al.*

A lipid molecule and a quaternary ammonium biocide that are used in making plastic labware can contaminate common enzyme and binding assays, altering the results.

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Global Protein Stability Profiling in Mammalian Cells

*H.-C. S. Yen, Q. Xu, D. M. Chou, Z. Zhao, S. J. Elledge*

Identification of SCF Ubiquitin Ligase Substrates by Global Protein Stability Profiling

*H.-C. S. Yen and S. J. Elledge*

A method that determines the half lives of all cellular proteins has been used to identify targets of a ubiquitin ligase, which controls the cell cycle through protein degradation. >> Perspective p. 872

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Slow Electron Cooling in Colloidal Quantum Dots

*A. Pandey and P. Guyot-Sionnest*

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M. Stadtfeld et al.
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DEVELOPMENTAL BIOLOGY

Generation of Mouse Induced Pluripotent Stem Cells Without Viral Vectors
K. Okita et al.
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Insights into Translational Termination from the Structure of RF2 Bound to the Ribosome
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J. K. Atwal et al.
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