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http://dx.doi.org/10.1126/science.1238149

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629 Global Epigenomic Reconfiguration During Mammalian Brain Development
R. Lister et al.
A genome-wide map shows that DNA methylation in neurons and glial cells changes during development in humans and mice.
Research Article Summary; for full text:
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ON THE WEB THIS WEEK
>> Science Podcast
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COVER
Spin-resolved scanning tunneling microscopy (STM) image (width: 51.6 nanometers) of single magnetic skyrmions (gray) and a few remaining spin spiral lines in a bilayer of Pd/Fe on top of an Ir(111) surface. The magnetic STM tip is sensitive to the out-of-plane magnetization component of the sample. Skyrmions can be created and annihilated locally by injecting spin-polarized currents from the STM tip. See page 636.

Image: Group of R. Wiesendanger, University of Hamburg

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C. Qi et al.
Millimeter-wavelength observations locate the carbon monoxide condensation line within the disk around a young planet-forming star.

632 A Quantum Many-Body Spin System in an Optical Lattice Clock
M. J. Martin et al.
A one-dimensional lattice of pancake-shaped clouds of $^{87}$Sr atoms is used to realize a strongly correlated system of spins.

636 Writing and Deleting Single Magnetic Skyrmions
N. Romming et al.
Spin-polarized currents delivered by a scanning tunneling microscope can be used to create and destroy spin whirlpools.

640 A Semi-Floating Gate Transistor for Low-Voltage Ultrafast Memory and Sensing Operation
P.-F. Wang et al.
An embedded tunneling field-effect transistor speeds switching by varying the voltage threshold of the main gate electrode.

643 Active Atmosphere-Ecosystem Exchange of the Vast Majority of Detected Volatile Organic Compounds
J.-H. Park et al.
Many volatile organic compounds emitted by vegetation are actively exchanged between plants and the atmosphere.

647 Social Influence Bias: A Randomized Experiment
L. Muchnik et al.
A social news aggregation Web site was used to test whether prior ratings influence others to create bias in rating behavior.

651 Pluripotent Stem Cells Induced from Mouse Somatic Cells by Small-Molecule Compounds
P. Hou et al.
A proof-of-principle study reports somatic reprogramming to the pluripotent state using small-molecule compounds.

655 Nuclear Pore Scaffold Structure Analyzed by Super-Resolution Microscopy and Particle Averaging
A. Szymborsko et al.
The localization of individual components of the nuclear pore complex was dissected using information from thousands of pores.

658 Polyploids Exhibit Higher Potassium Uptake and Salinity Tolerance in Arabidopsis
D.-Y. Chao et al.
Certain thale cress plants collected in the wild contain a duplicated genome and can cope with salty soil.

660 Spatial Dynamics of Chromosome Translocations in Living Cells
V. Roukos et al.
An experimental system allows the visualization of human cell chromosome translocations in real time.

663 The Hologenomic Basis of Speciation: Gut Bacteria Cause Hybrid Lethality in the Genus Nasonia
R. M. Brucker and S. R. Bordenstein
Speciation may be a collective property of an organism and its microbiota.

664 Positive Feedback Between PU.1 and the Cell Cycle Controls Myeloid Differentiation
H. Y. Kueh et al.
Regulation of cell cycle length is a feedback mechanism that controls cell fate decisions in developing macrophages.

667 T Follicular Helper Cell Dynamics in Germinal Centers
Z. Shulman et al.
Tracking individual cells reveals that immunological T cell help is shared between immune B cell germinal centers.
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