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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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Polyploids Exhibit Higher Potassium Uptake and Salinity Tolerance in Arabidopsis
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Certain thale cress plants collected in the wild contain a duplicated genome and can cope with salty soil.

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

Real-Time Dynamics of RNA Polymerase II Clustering in Live Human Cells
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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.

TFollicular 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.