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J. J. Lindeboom et al.
A self-organizing system makes the microtubule array in plants rearrange in order for the shoot to turn toward blue light.
Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1245533

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I. Imayoshi et al.
During neural development, the differentiated state correlates with sustained expression of a single fate-determination factor.

1208 Structure and Composition of the Plate-Boundary Slip Zone for the 2011 Tohoku-Oki Earthquake
F. M. Chester et al.
The Tohoku-Oki earthquake occurred along a thin, clay-rich fault zone in the basal strata of the subducting plate.

1211 Low Coseismic Shear Stress on the Tohoku-Oki Megathrust Determined from Laboratory Experiments
K. Ujiie et al.
Rotary shear experiments reveal the frictional properties of clay-rich material recovered directly from the Tohoku-Oki fault zone.

1214 Low Coseismic Friction on the Tohoku-Oki Fault Determined from Temperature Measurements
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Flows in cells transport angular momentum toward the solar equator, maintaining the Sun’s rapid equatorial rotation.

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H. Loh et al.
A method to measure the electric dipole moment of the electron is demonstrated using polarized trapped molecular ions.

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H. Suchowski et al.
Metamaterials relax the requirement for phase matching in nonlinear optics.

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X. Lim et al.
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A microRNA expressed in adult neurons affects movement by modulating neuronal signaling networks and excitability.

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