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Optical micrograph (crossed polarizers) showing parallel dark rods of FeTiO$_3$ (up to 20 micrometers long) that precipitated from solution in the mineral olivine during tectonic transport of a piece of mantle to a location high in the Swiss Alps. These rods formed under high pressure at depths greater than 300 kilometers, indicating profound subduction of continental rocks after the collision of Africa and Europe and their return to the surface carrying this piece of mantle. See page 1841 and News story on page 1811. [Image: L. Dobrzynska/H, W. Green II, and S. Wang]

**RESEARCH ARTICLE**

Interaction Between Wingless and Notch Signaling Pathways Mediated by Dishevelled
J. D. Axelrod, K. Matsuno, S. Artavanis-Tsakonas, N. Perrimon

Isolation, Structure, and Electronic Calculations of the Heterofullerene Salt K$_2$C$_6$Z$_2$N

The Elasticity of a Single Supercoiled DNA Molecule
T. R. Strick, J.-F. Allemand, D. Benison, A. Benison, V. Croquette

Late Cretaceous Oceans and the Cool Tropic Paradox
S. D'Hondt and M. A. Arthur

Alpe Arami: A Peridotite Massif from Depths of More than 300 Kilometers
L. Dobrzynska/H, W. Green II, S. Wang

Constraints on Rates of Granitic Magma Transport from Epidote Dissolution Kinetics
A. D. Brandon, R. A. Creaser, T. Chacko

Enhancement of Solution NMR and MRI with Laser-Polarized Xenon
G. Navon, Y.-Q. Song, T. Rooom, S. Appelt, R. E. Taylor, A. Pines

Caste-Selective Pheromone Biosynthesis in Honeybees
E. Plettenr, K. N. Sessler, M. L. Winston, J. E. Oliver

Identification of D-Peptide Ligands Through Mirror-Image Phage Display

Inhibition of HIV-1 Replication in Lymphocytes by Mutants of Rev Cofactor Rev-5A

Translational Control of p27(kip1)
L. Hengst and S. I. Reed

Altered Sensory Processing in the Somatosensory Cortex of the Mouse Mutant Barrelin

A Neural Tetraspanin, Encoded by late Bloomer, That Facilitates Synapse Formation
C. C. Kopczynski, G. W. Davis, C. S. Goodman

Replay of Neuronal Firing Sequences in Rat Hippocampus During Slow Following Spatial Experience
W. E. Skaggs and B. L. McNaughton

An RNA Polymerase II Elongation Factor Encoded by the Human ELL Gene
A. Shillatifard, W. S. Lane, K. W. Jackson, R. C. Conaway, J. H. Conaway

Failure of the Cystic Fibrosis Transmembrane Conductance Regulator to Conduct ATP

**TECHNICAL COMMENTS**

Testing for Bias in the Climate Record