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COVER
Partial view of the predictive map of high levels of arsenic in groundwater resources in China (blue, low probability; red, high probability; width, 600 kilometers; resolution, 1 square kilometer). Chronic arsenic poisoning from contaminated groundwater is a major health problem in many parts of China. An estimated 19.6 million people are potentially exposed to elevated arsenic concentrations in their drinking water. See pages 852 and 866.

Image: Luis Rodriguez-Lado and Michael Berg, Eawag
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860 Tissue Interactions in Neural Crest Cell Development and Disease
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A. Biffi et al.
Lentivirus-mediated gene therapy produces encouraging results in three children with a rare lysosomal storage disease.
Research Article Summary, for full text: http://dx.doi.org/10.1126/science.1233158

865 Lentiviral Hematopoietic Stem Cell Gene Therapy in Patients with Wiskott-Aldrich Syndrome
A. Altri et al.
Lentivirus-mediated gene therapy produces encouraging results in three children with a rare immunodeficiency disorder.
Research Article Summary, for full text: http://dx.doi.org/10.1126/science.1233151

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A predictive map of arsenic in Chinese groundwater aquifers reveals a potential health risk to 19.6 million people.
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Changes in tectonic rates can be quantitatively derived from hillslope morphology.

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Anisotropy of the crust and mantle under Europe is a relict of the continent’s formation.

875 Abundant Porewater Mn(III) Is a Major Component of the Sedimentary Redox System
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Soluble manganese(III) accounts for up to 90% of the total manganese in the near-surface porewaters of hemipelagic sediments.

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Crystal structures reveal why the brassinosteroid receptor kinase requires another kinase helper protein for activation.

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Differences in the rate of an internal protein loop closure are coupled to differences in enzyme reaction rates.

903 Cyclic GMP-AMP Synthase Is an Innate Immune Sensor of HIV and Other Retroviruses
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Cell culture experiments suggest that detection of retroviral DNA activates cellular defense systems.
Editor's Summary

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