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Check out the latest installment in this ongoing series, a Review on neural crest cell development and disease, on page 860 and at www.sciencemag.org/extra/neurodev.

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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 Rodríguez-Lado and Michael Berg, Eawag
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864 Lentiviral Hematopoietic Stem Cell Gene Therapy Benefits Metachromatich Leukodystrophy
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. Mlodzi 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

866 Groundwater Arsenic Contamination Throughout China
L. Rodriguez-Lado et al.
A predictive map of arsenic in Chinese groundwater aquifers reveals a potential health risk to 19.6 million people.
>> Perspective p. 852

868 Hillslopes Record the Growth and Decay of Landscapes
M. D. Hurst et al.
Changes in tectonic rates can be quantitatively derived from hillslope morphology.

871 Mapping Tectonic Deformation in the Crust and Upper Mantle Beneath Europe and the North Atlantic Ocean
H. Zhu and J. Tromp
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
A. S. Madison et al.
Soluble manganese(III) accounts for up to 90% of the total manganese in the near-surface porewaters of hemipelagic sediments.

878 14-Step Synthesis of (+)-Ingenol from (+)-3-Carene
L. Jorgensen et al.
A chemical route to a diterpenoid could enhance production efficiency of a drug that treat a precancerous skin condition.

882 Mapping of Functional Groups in Metal-Organic Frameworks
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Solid-state nuclear magnetic resonance and simulations map the distribution of linking groups in metal-organic frameworks.

885 Microscopic Evidence for Liquid-Liquid Separation in Supersaturated CaCO3 Solutions
A. F. Wallace et al.
The preordering seen during calcium carbonate crystallization may be due to a liquid-liquid separation process.

889 Molecular Mechanism for Plant Steroid Receptor Activation by Somatic Embryogenesis Co-Receptor Kinases
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893 Titration of Four Replication Factors Is Essential for the Xenopus laevis Midblastula Transition
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899 Conformational Motions Regulate Phosphoryl Transfer in Related Protein Tyrosine Phosphatases
S. K. Whittier et al.
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
D. Gao et al.
Cell culture experiments suggest that detection of retroviral DNA activates cellular defense systems.