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1240	The 2011 Tonoku-Oki Earthquake: Displacement Reaching the Trench Axis. T. Fujiwara et al. Vertical and horizontal displacement that occurred up to the Japan trench likely contributed to formation of the tsunami.

RESEARCH ARTICLES

Functional Links Between Aβ Toxicity, Endocytic Trafficking, and Alzheimer's Disease Risk Factors in Yeast.

S. Treusch et al.

The use of yeast as a model organism reveals cellular factors involved in betaamyloid toxicity.

>> Perspective p. 1212

Detection of Pristine Gas Two Billion Years After the Big Bang.

M. Fumagalli et al.

Two cosmic clouds have been observed with a composition close to that of the universe before the first stars were formed.

>> Perspective p. 1216; Report p. 1250

REPORTS

1250 Protostellar Feedback Halts the Growth of the First Stars in the Universe.

T. Hosokawa et al.

Simulations suggest that most of the first stars in the universe might have been less massive than previously thought.

>> Research Article p. 1245

1253 Entangling Macroscopic Diamonds at Room Temperature

K. C. Lee et al.

Optical pulses are used to quantum mechanically entangle two diamonds several centimeters apart.

>> Perspective p. 1213

Enhancing Hydrogen Evolution Activity in Water Splitting by Tailoring Li⁺-Ni (HO)₂-Pt Interface.

R. Subbaraman et al.

Combining two different types of catalysts accelerated the hydrogen-generation step in water electrolysis.

The Role of Carbon Dioxide During the Onset of Antarctic Glaciation.

N. Pagani et al.

Antarctica glaciation began soon after a large decrease in the concentration of atmospheric carbon dioxide around 35 million years ago.

1265 Interhemispheric Ice-Sheet synchronicity During the Last Glacial Maximum

M. E. Weber et al.

Part of the East Antarctic Ice Sheet advanced and retreated in synchrony with Northern Hemispheric ice sheets.

An Experimental Study of Homophily in the Adoption of Health Behavior. *D. Centola.*

Greater similarity of paired obese participants in an online network increased access to and adoption of health behaviors.

>> Perspective p. 1220

Specialized Face Learning Is Associated with Individual Recognition in Paper Wasps.

M. J. Sheehan and E. A. Tibbetts.

Social wasps that can discriminate faces are specialized for facial learning, whereas other closely related species are not.

>> Science Podcast

Modeling Effects of Environmental Change on Wolf Population Dynamics, Trait Evolution, and Life History.

T. Coulson et al.

Analysis of a 20-year data set on Yellowstone wolves reveals that environmental change generates eco-evolutionary responses.

>> Perspective p. 1214

Inhibition of Pyruvate Kinase M2 by Reactive Oxygen Species Contributes to Cellular Antioxidant Responses.

D. Anastasiou et al.

The glycolytic metabolism of cancers differs from normal tissues, allowing tumor cells to survive under oxidative stress.

>> Perspective p. 1219

Hemoglobins S. and Interfere with Actin Remodeling in *Plasmodium Falciparum* — Infected Erythrocytes.

M. Cyklaff et al.

The Malaria parasite mines actin from the membrane skeleton of its erythrocyte host to generate a cytoskeletal structure.

Robust Crossover Assurance and Regulated Interhomolog Access Maintain Meiotic Crossover Number.

S. Rosu et al.

DNA break that drive crossing over between chromosomes in meiosis are tightly regulated in space and time.

Increasing the Potency and Breadth of an HIV Antibody by Using Structure-Based Rational Design.

R. Diskin et al.

Structural analysis of an HIV antibody reveals residues important for neutralization breadth and potency.

The Intraepithelial T Cell Response to NKG2D-Ligands Links Lymphoid Stress Surveillance to Atopy.

J. Strid et al.

Epidermal abrasion and T cells in the skin work together to drive the type of immune responses seen in allergy and asthma.

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COVER

As streams of data continue to grow in size and complexity, the need to ensure that scientific results are reliable has become even greater. The special section beginning on page 1225 and associated Editorial, News, Careers, and Readers' Poll features explore the opportunities and the challenges of replicating or reproducing data in a variety of fields.

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