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A vaccine that uses one virus to deliver components of a second virus elicits T cells that recognize noncanonical epitopes.
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COVER
A Classopollis meyeriana conifer pollen grain (~30 micrometers across) preserved in lake sediments deposited just after a massive, volcano-induced extinction event ~200 million years ago. This fossilized pollen grain is representative of the low-diversity plant assemblages found within the tropics of the Pangean supercontinent during the postextinction recovery period. See page 941.

Image: Dee Breger and Sarah Fowell/Science Source

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Climate change triggered by massive volcanism set the stage for the era of dinosaurs.

Annually Resolved Ice Core Records of Tropical Climate Variability over the Past ~1800 Years
L. G. Thompson et al.
A record from the Quelccaya ice cap in Peru shows the variability of climate in the tropical Andes.

REPORTS

An Accurate Geometric Distance to the Compact Binary SS Cygni Vindicates Accretion Disc Theory
J. C. A. Miller-Jones et al.
SS Cygni is much closer than previously thought, removing a major challenge to our understanding of accretion theory. >> Perspective p. 932

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Thermally driven ordering of solute atoms can lead to an unexpected strengthening of a metal alloy.

Separation of Hexane Isomers in a Metal-Organic Framework with Triangular Channels
Z. R. Herm et al.
A porous material shows preliminary promise for enhancing a separations process central to the gasoline production.

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Hollow mixed-metal oxide nanoparticles can be made by replacing the metal cations through redox reactions in solution. >> Perspective p. 935

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Changes in Taste Neurons Support the Emergence of an Adaptive Behavior in Cockroaches
A. Wada-Katsumata et al.
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