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Wet bark of a Pacific yew tree (Taxus brevifolia) in Union, Washington, USA (vertical dimension ~15 centimeters).
Wild Pacific yew thrives in the damp coastal forests of northwestern North America, with thin bark ranging in color from rose to auburn. The anticancer agent paclitaxel was originally derived from yew trees. Such complex and useful compounds are just one of the many outputs from plant metabolic networks, as analyzed in the special issue beginning on page 1657.

Photo: Don Paulson, www.donpaulson.com

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An elementary chemical reaction manifests unexpectedly complex rotational dynamics.

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Evidence of past earthquakes from sediments along New Zealand’s Alpine Fault improves seismic hazard estimates.

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Neoproterozoic trace fossils from Uruguay indicate that early animals appeared at a time between global glaciations.

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1696 **Early Pottery at 20,000 Years Ago in Xianrendong Cave, China**

X. Wu et al.

Shards from a cave in China imply that humans had invented pottery and used it for cooking by about 20,000 years ago.

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1700 **Photonic Crystal Light Collectors in Fish Retina Improve Vision in Turbid Water**

A. Kreysing et al.

Layering cones on top of rods allows the elephantnose fish to see low-contrast objects in a murky environment.

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1704 **A *Papaver somniferum* 10-Gene Cluster for Synthesis of the Anticancer Alkaloid Noscapine**

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A biosynthetic pathway inherited as a gene cluster generates a pharmaceutically useful alkaloid in poppies.

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C. S. Westfall et al.

Crystal structures of plant GH3 proteins reveal how these enzymes accommodate jasmonates, auxins, and benzoates.

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A. L. T. Powell et al.

Controlling when tomatoes turn from green to red requires knocking out the gene that adds flavor.

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D. Floudas et al.

The enzyme family that enables fungi to digest lignin expanded around the end of the coal-forming Carboniferous period.

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S. R. Starck et al.

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A. Mayer et al.

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RESEARCH ARTICLE: AAV-Directed Persistent Expression of a Gene Encoding Anti-Nicotinic Antibody for Smoking Cessation

M. J. Hicks et al.
Gene therapy with an anti-nicotinic monoclonal antibody limits nicotine access to the brain in mice.

RESEARCH ARTICLE: Transplantation of Genetically Corrected Human iPSC-Derived Progenitors in Mice with Limb-Girdle Muscular Dystrophy

F. S. Tedesco et al.
Genetically corrected mesoangioblasts contribute to muscle in mice with limb-girdle muscular dystrophy.

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