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

Page 1630
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
<th>Summary</th>
</tr>
</thead>
</table>
| 1654 | Engaging Students in Earthquakes via Real-Time Data and Decisions   | A. E. Egger | A biosynthetic pathway inherited as a gene cluster generates a pharmacologically useful alkaloid in poppies.  

**SCIENCE PRIZE ESSAY**

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**REVIEW**

1664 A Decade of Imaging Cellular Motility and Interaction Dynamics in the Immune System  
R. N. Germain et al.

1676 Uniform ripening Encodes a Golden 2-like Transcription Factor Regulating Tomato Fruit Chloroplast Development  
A. L. T. Powell et al.

1677 The Paleozoic Origin of Enzymatic Lignin Decomposition Reconstructed from 31 Fungal Genomes  
D. Ploudas et al.

1680 The Paleozoic Origin of Enzymatic Lignin Decomposition Reconstructed from 31 Fungal Genomes  
D. Floudas et al.

1683 Hesperian Age for Western Medusae Fossae Formation, Mars  
J. R. Zimbelman and S. P. Scheidt

Counts of impact craters provide age for a region on Mars close to the landing site of rover Curiosity.

1690 Major Earthquakes Occur Regularly on an Isolated Plate Boundary Fault  
K. R. Berryman et al.

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

1693 Bilaterian Burrows and Grazing Behavior at >585 Million Years Ago  
E. Pecoits et al.

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

1696 Early Pottery at 20,000 Years Ago in Xianrendong Cave, China  
X. Wu et al.

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1699 Elastic Coupling Between RNA Degradation and Unwinding by an Exoribonuclease  
G. Lee et al.

Rrp44 stores the energy from snipping off four bases and then uses it to unwind duplex RNA spasmodically.

1704 A *Papaver somniferum* 10-Gene Cluster for Synthesis of the Anticancer Alkaloid Noscapine  
T. Winzer et al.

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**BREVIA**

1684 Synthesis of Self-Pillared Zeolite Nanosheets by Repetitive Branching  
X. Zhang et al.

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1687 Seemingly Anomalous Angular Distributions in H + D₂ Reactive Scattering  
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**CONTENTS continued >>**

www.sciencemag.org  SCIENCE  VOL 336  29 JUNE 2012