1896 The biology of learning disabilities

1906 & 1984 T cell receptor chain

NEWS & COMMENT
Arguing Over Why Johnny Can’t Read
1896
Patent Award Stirs a Controversy
1899
Commotion Over E. coli Project
1899
Agency Merger Plan Faces High Hurdles
1900
Swedish Science: Political Spat Threatens Funding for Basic Research
1901
Asian Network Seeks Data Sharing
1902
Critical Technologies: Report Says U.S. Holds Lead
1902

RESEARCH NEWS
Switching On a Brilliant Light
1904
Taking a First Look at a T Cell Receptor
1906
When It Comes to Evolution, Humans Are in the Slow Class
1907
The Earliest Art Becomes Older—and More Common
1908
Earth’s Solid Iron Core May Skew Its Magnetic Field
1910
Pacific Warming Unsettles Ecosystems
1911
Hubble Glimpses a Hazy Day on Mars
1912

POLICY FORUM
Science: Opening the Next Chapter of Conservation History
B. Babbitt

PERSPECTIVE
Hostile Landscapes and the Decline of Migratory Songbirds
R. A. Askins

RESEARCH ARTICLE
Architectures of Class-Defining and Specific Domains of Glutamyl-tRNA Synthetase

DEPARTMENTS
THIS WEEK IN SCIENCE
1885
EDITORIAL
1887
LETTERS
1889
SCIENCESCOPE
1895
RANDOM SAMPLES
1903

BOOK REVIEWS
The Paleobiogeography of China, reviewed by D. H. Erwin
1885

PRODUCTS & MATERIALS
2012

QUARTERLY AUTHOR INDEX
2017

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Molecular dynamics representations of two low-temperature amorphous states of water, which are characterized by different, incompatible short-range orderings of the molecules. The white spheres represent hydrogen and the red spheres oxygen. Polyamorphism, important in biopolymers, is one of the most recently recognized features of the glassy state. See page 1939. Amorphous materials and glasses are the focus of a special section on Materials Science, which begins on page 1918. [Images: P. H. Poole, Dalhousie University, Halifax, Nova Scotia]