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Imanishi-Kari Ruling Slams ORI 1864
Scientists Ponder New Cluster Mission and Uncertain Future 1866
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National Science Foundation: Awards Mark Research-Learning Links 1868
Japan: Five-Year Plan to Boost Spending 1868
Phage Transfer: A New Player Turns Up in Cholera Infection
Watching the Earth Move 1870
Divide and Conquer: How Worm Embryo Cells Specialize 1871
Artificial Life Gets Real as Scientists Meet in Japan 1872
Corn: A Lot of Change From a Little DNA 1873

PERSPECTIVES

There Is Plenty of Room Between Two Atom Contacts
C. J. Muller and M. A. Reed 1901
Glacial Climate in the Tropics
W. Broecker 1902
Tickling Memory T Cells
R. Ahmed 1904

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THIS WEEK IN SCIENCE

EDITORIAL
AIDS: A Global Response
P. Piot 1849

LETTERS
Hrudo medicinalis Unplugged: E. L. Bearer • Striving for Creativity: R. J. Sternberg • The Economics of Contraceptives R&D: C. Djerassi • Monbusho and CREST Grants: I. Kanazawa; D. Normile • What Is Holography?: C. Jacobsen • “Natural” Cancer Prevention: P. A. Lachance 1855

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RESEARCH ARTICLES

Image Representations for Visual Learning
D. Beymer and T. Poggio 1905

Lysogenic Conversion by a Filamentous Phage Encoding Cholera Toxin
M. K. Waldor and J. J. Mekalanos 1910

Minimal Energy Requirements in Communication
R. Landauer 1914

REPORTS

Atmospheric, Evolutionary, and Spectral Models of the Brown Dwarf Gliese 229 B
M. S. Marley, D. Saumon, T. Guillot, R. S. Freedman, W. B. Hubbard, A. Burrows, J. I. Lunine 1919

RANDOM SAMPLES

Ice Man Didn’t Die Young • Ex-Mobil Scientist Indicted • Berkeley Gets Chief for Gene Mappers 1875

BOOK REVIEWS

Neotropical Migratory Birds; The Ecology of Migrant Birds; Ecology and Management of Neotropical Migratory Birds, reviewed by S. A. Temple • Ocean Acoustic Tomography, F. Schott • Optical Coherence and Quantum Optics, W. P. Schleich • Books Received 1896

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QUARTERLY INDEX

1974
Human immunodeficiency virus (HIV) docking onto the CD4 receptor of a T lymphocyte with chemokine receptors (blue) at the ready. The face of acquired immunodeficiency syndrome has changed dramatically over the past few years, as a new generation of researchers comes to the fore, a new class of drugs shows promise, and scientists gain new insight into how HIV infects a CD4-bearing cell, its primary target. See the special section (pages 1876 to 1890), editorial (page 1855), and related reports (pages 1939 and 1955). [Illustration: Terese Winslow]