

1816 & 1850
 Possible new high for superconductivity critical temperatures

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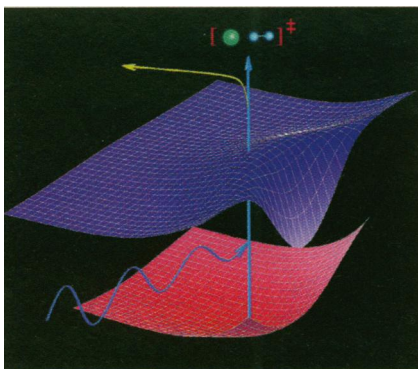
- Transition States of Chemical** 1828
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 G. C. Schatz
- Two Jobs for the Origin Replication** 1830
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- Distributions of Phytoplankton Blooms** 1832
in the Southern Ocean
 C. W. Sullivan, K. R. Arrigo, C. R. McClain,
 J. C. Comiso, J. Firestone

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- Origin Recognition Complex (ORC)** 1838
in Transcriptional Silencing and DNA
Replication in *S. cerevisiae*
 M. Foss, F. J. McNally, P. Laurenson, J. Rine
- Yeast Origin Recognition Complex** 1844
Functions in Transcription Silencing and
DNA Replication
 S. P. Bell, R. Kobayashi, B. Stillman



1828 & 1852

Making a quick transition

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- THIS WEEK IN SCIENCE** 1797
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- LETTERS** 1801
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- SCIENCESCOPE** 1807
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- BOOK REVIEWS** 1906
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- PRODUCTS & MATERIALS** 1914

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Model of the protein lysin superimposed on the shells of a red abalone. To fertilize the egg, the abalone spermatozoon must disrupt the protective vitelline envelope. Lysin binds to the filamentous glycoproteins that form the envelope and creates a hole by means of

a nonenzymatic process. The lysin-glycoprotein association also contributes to the species recognition between sperm and egg. See page 1864. [Cover design: Peggy Myer. Digital photography: Bob Turner. Molecular model: Mike Pique]



REPORTS

Evidence Suggesting Superconductivity at 250 K in a Sequentially Deposited Cuprate Film ■ 1850

M. Laguès, X. M. Xie, H. Tebbji, X. Z. Xu, V. Mairret, C. Hatterer, C. F. Beuran, C. Deville-Cavellin

The Transition State of the F + H₂ Reaction ■ 1852

D. E. Manolopoulos, K. Stark, H.-J. Werner, D. W. Arnold, S. E. Bradforth, D. M. Neumark

Nitrogen-15 and Oxygen-18 Characteristics of Nitrous Oxide: A Global Perspective 1855

K.-R. Kim and H. Craig

Superheating Effects on Metal-Silicate Partitioning of Siderophile Elements 1858

D. Walker, L. Norby, J. H. Jones

Orphan Strontium-87 in Abyssal Peridotites: Daddy Was a Granite 1861

J. E. Snow, S. R. Hart, H. J. B. Dick

The Crystal Structure of Lysin, a Fertilization Protein 1864

A. Shaw, D. E. McRee, V. D. Vacquier, C. D. Stout

A Functional Recombinant Myosin II Lacking a Regulatory Light Chain-Binding Site 1867

T. Q. P. Uyeda and J. A. Spudich

Isolation of ORC6, a Component of the Yeast Origin Recognition Complex by a One-Hybrid System ■ 1870

J. J. Li and I. Herskowitz

Sharing of the Interleukin-2 (IL-2) Receptor γ Chain Between Receptors for IL-2 and IL-4 ■ 1874

M. Kondo, T. Takeshita, N. Ishii, M. Nakamura, S. Watanabe, K.-i. Arai, K. Sugamura

Interleukin-2 Receptor γ Chain: A Functional Component of the Interleukin-7 Receptor ■ 1877

M. Noguchi, Y. Nakamura, S. M. Russell, S. F. Ziegler, M. Tsang, X. Cao, W. J. Leonard

Interleukin-2 Receptor γ Chain: A Functional Component of the Interleukin-4 Receptor ■ 1880

S. M. Russell, A. D. Keegan, N. Harada, Y. Nakamura, M. Noguchi, P. Leland, M. C. Friedmann, A. Miyajima, R. K. Puri, W. E. Paul, W. J. Leonard

Active Oxygen Species in the Induction of Plant Systemic Acquired Resistance by Salicylic Acid 1883

Z. Chen, H. Silva, D. F. Klessig

Functional Requirement of a Site-Specific Ribose Methylation in Ribosomal RNA 1886

K. Sirum-Connolly and T. L. Mason

Inhibition of Transcriptional Regulator Yin-Yang-1 by Association with c-Myc 1889

A. Shrivastava, S. Saleque, G. V. Kalpana, S. Artandi, S. P. Goff, K. Calame

Attachment of *Helicobacter pylori* to Human Gastric Epithelium Mediated by Blood Group Antigens ■ 1892

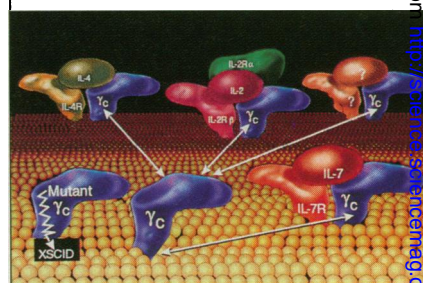
T. Borén, P. Falk, K. A. Roth, G. Larson, S. Normark

Separate GTP Binding and GTPase Activating Domains of a G α Subunit 1895

D. W. Markby, R. Onrust, H. R. Bourne

Linearity of Summation of Synaptic Potentials Underlying Direction Selectivity in Simple Cells of the Cat Visual Cortex 1901

B. Jagadeesh, H. S. Wheat, D. Ferster



1818, 1874, 1877 & 1880

Common subunit for interleukin receptors

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