



COVER Ribbon diagram of the conserved catalytic core shared by all known eukaryotic protein kinases. The crystal structure of the catalytic subunit of cyclic adenosine monophosphate-dependent protein kinase provided the template for the core. The amino terminus of the protein (shades of brown) is associated with magnesium adenosine triphosphate binding, and the carboxyl terminus (purple) with peptide binding. Catalysis occurs in the cleft between the two lobes. Insertions at the sites indicated by dots (blue-green, more than 70 residues; violet, more than 25 residues) occur in some members of the protein kinase family. See pages 407 and 414. [Source: S. S. Taylor; illustration by Diana DeFrancesco]

Reports

- 421 High-Pressure Chemistry of Hydrogen in Metals: In Situ Study of Iron Hydride: J. V. BADDING, R. J. HEMLEY, H. K. MAO
- 424 Commensurability and Mobility in Two-Dimensional Molecular Patterns on Graphite: J. P. RABE AND S. BUCHHOLZ
- 427 Dislocations and Flux Pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$: S. JIN, G. W. KAMMLOTT, S. NAKAHARA, T. H. TIEFEL, J. E. GRAEBNER
- 429 Order and Disorder in C_{60} and K_xC_{60} Multilayers: Direct Imaging with Scanning Tunneling Microscopy: Y. Z. LI, M. CHANDER, J. C. PATRIN, J. H. WEAVER, L. P. F. CHIBANTE, R. E. SMALLEY
- 433 Density-Dependent Natural Selection and Trade-Offs in Life History Traits: L. D. MUELLER, P. GUO, F. J. AYALA
- 435 Conversion of Ectoderm to Mesoderm by Cytoplasmic Extrusion in Leech Embryos: B. H. NELSON AND D. A. WEISBLAT
- 438 The 2.3 Angstrom X-ray Structure of Nitrite Reductase from *Achromobacter cycloclastes*: J. W. GODDEN, S. TURLEY, D. C. TELLER, E. T. ADMAN, M. Y. LIU, W. J. PAYNE, J. LEGALL
- 442 Recognition of a Cell-Surface Oligosaccharide of Pathogenic *Salmonella* by an Antibody Fab Fragment: M. CYGLER, D. R. ROSE, D. R. BUNDLE
- 445 Solution Structure of Kistrin, a Potent Platelet Aggregation Inhibitor and GP IIb-IIIa Antagonist: M. ADLER, R. A. LAZARUS, M. S. DENNIS, G. WAGNER
- 448 Identification of a Mutation in Porcine Ryanodine Receptor Associated with Malignant Hyperthermia: J. FUJII, K. OTSU, F. ZORZATO, S. DE LEON, V. K. KHANNA, J. E. WEILER, P. J. O'BRIEN, D. H. MACLENNAN

Technical Comment

- 452 The Spectrum of Comet Austin: T. G. SLANGER; J. GREEN, W. CASH, T. COOK, S. A. STERN

Inside AAAS

- 454 Scientists Invited to Join Teachers in Fight Against Scientific Illiteracy ■ 1991 Bell Atlantic-AAAS Institute Teachers ■ AAAS Fellows Learn EPA Ways ■ In Memory of Arthur Herschman ■ Reviewers Wanted ■ Call for SLAAS Delegate

Book Reviews

- 457 The Unfolding of a Philosophy, reviewed by A. E. SHAPIRO ■ A Cultural Transplant, B. MOLONY ■ Approaches to Systematics, J. G. LUNDBERG AND L. A. MCDADE ■ Beneath the Continents, P. G. SILVER

Products & Materials

- 465 DNA Probes ■ Software for Numerical Taxonomy ■ Gel Blotting Papers ■ Small Soakable Video Camera ■ Hand-Held Computer System ■ Enzyme Cleaner for Fermentation Residues ■ Literature

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