Editorial

361 Excessive Fear of PCBs

Letters

366 HIV Research and nef Alleles: W. A. HASELTINE; J. A. LEVY ■ LBL Helmsman: C. V. SHANK

ScienceScope

371 Ground-breaking on research ice-breaker; poking holes in EMF studies; etc.

News & Comment

372 OSI Investigator “Reined In”
373 Hope From a Hot Little Motor
Thumbs Up for Two Detectors
374 Images of Conflict: MEG vs. EEG
376 Report Card on the Genome Project
Germany Grows Too Big for Its Budget
377 A Unique Lab Design Fits the British to a Tea
378 Small Is Beautiful: Microlivestock to Feed the Third World?
379 Briefings: Abortion Law Fallout ■ Genes Score a New Point in Alcoholism ■ Keeping Textbook Babble at Bay ■ Johnson vs. Darwin

Research News

380 Seeing Stars in a Handful of Dust ■ Scooping Starstuff From a Comet
382 New 3-D Protein Structures Revealed: The Shape of Cholera ■ First Protein Kinase Structure
384 Mix Well, Then Apply: Math Meeting in D.C.: Goodbye Assembly Line ■ Curse Foiled—Again ■ Microbial Math
385 A Most Improbable Planet
386 A Mountaintop Cliffhanger of an Eclipse
387 The Small Wonders of Microengineering

Articles

390 Statistical Data Analysis in the Computer Age: B. EFRON and R. TIBSHIRANI
395 Enols and Other Reactive Species: Y. CHIANG and A. J. KRESGE
401 Protein Tyrosine Phosphatases: A Diverse Family of Intracellular and Transmembrane Enzymes: E. H. FISCHER, H. CHARBONNEAU, N. K. TONKS

Research Articles


This Week in Science

359 This Week in Science
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]