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Downloaded from http://science.sciencemag.org/ on April 9, 2017
Two-dimensional agarose gel electrophoresis of replicating DNA reveals the locations of DNA replication origins. DNA fragments are separated on the basis of mass (from left to right) and shape (from top to bottom). In this artificially colorized autoradiogram, a yeast chromosomal replication origin is detected first as a series of fragments that contain bubbles (right arc) and later as a series of large simple Y's (left vertical arc). See page 1728. [ Autoradiogram: Bonita J. Brewer. Colorization: Walton L. Fangman ]

RESEARCH ARTICLE

Protein Design by Binary Patterning of Polar and Nonpolar Amino Acids
S. Kamtekar, J. M. Schiffer, H. Xiong, J. M. Babik, M. H. Hecht

Manipulating Chlorine Atom Bonding on the Si(100)-(2x1) Surface with the STM
J. J. Boland

Attempts to Mimic Docking Processes of the Immune System: Recognition-Induced Formation of Protein Multilayers

Inner Core Anisotropy Due to the Magnetic Field–Induced Preferred Orientation of Iron
S.-i. Karato

Adhesive Electroless Metallization of Fluoropolymeric Substrates
T. G. Vargo, J. A. Gardella Jr., J. M. Calvert, M.-S. Chen

Translocation of Repetitive RNA Sequences with the Germ Plasm in Xenopus Oocytes
M. Kloc, G. Spohr, L. D. Erkin

The Role of Backbone Flexibility in the Accommodation of Variants That Repack the Core of T4 Lysozyme
E. P. Baldwin, O. Hajiseyedjavadi, W. A. Baase, B. W. Matthews

Modulation of Calmodulin Plasticity in Molecular Recognition on the Basis of X-ray Structures
W. E. Meador, A. R. Means, F. A. Quiocio

Restoration of HIV-Specific Cell-Mediated Immune Responses by Interleukin-12 in Vitro

Dense Nonsymmetrical DNA Methylation Resulting from Repeat-Induced Point Mutation in Neurospora
E. U. Selker, D. Y. Fritz, M. J. Singer

Initiation at Closely Spaced Replication Origins in a Yeast Chromosome
B. J. Brewer and W. L. Fangman

Association of the APC Gene Product with β-Catenin

Association of the APC Tumor Suppressor Protein with Catenins
L. K. Su, B. Vogelstein, K. W. Kinzler

Abnormal Chromosome Behavior in Neurospora Mutants Defective in DNA Methylation

Elements of the Yeast Pheromone Response Pathway Required for Filamentous Growth of Diploids
H. Liu, C. A. Styles, G. R. Fink

Mutations That Allow Disulfide Bond Formation in the Cytoplasm of Escherichia coli
A. I. Derman, W. A. Prinz, D. Belin, J. Beckwith

The Learning of Categories: Parallel Brain Systems for Item Memory and Category Knowledge
B. J. Knowlton and L. R. Squire