Effect of Double-Strand Breaks on Homologous Recombination in Mammalian Cells and Extracts. Kyu-Young Song, Lavanya Chekuri, Sikha Rauth, Stacy Ehrlich, and Raju Kucherlapati .................................................. 3331-3336

Nucleotide Sequence and Expression In Vitro of cDNA Derived from mRNA of int-1, a Provirally Activated Mouse Mammary Oncogene. Y.-K. T. Fung, G. M. Shackleford, A. M. C. Brown, G. S. Sanders, and H. E. Varmus ........................................................................ 3337-3344

Augmented Expression of Normal c-myc Is Sufficient for Cotransformation of Rat Embryo Cells with a Mutant ras Gene. William M. F. Lee, Manfred Schwab, David Westaway, and Harold E. Varmus .............................. 3345-3356

Diphtheria Toxin-Resistant Mutants of Saccharomyces cerevisiae. Jeou-Yuan C. Chen, James W. Bodley, and Dennis M. Livingston .................................................. 3357-3360


A Murine Recombinant Retrovirus Containing the src Oncogene Transforms Erythroid Precursor Cells In Vitro. Steven M. Anderson, S. Peter Klinken, and W. David Hankins .................................................. 3369-3375


Members of the src and ras Oncogene Families Supplant the Epidermal Growth Factor Requirement of BALB/MK-2 Keratinocytes and Induce Distinct Alterations in Their Terminal Differentiation Program. Bernard Weissman and Stuart A. Aaronson ........................................ 3386-3396


Vaccinia Virus Expression Vector: Coexpression of β-Galactosidase Provides Visual Screening of Recombinant Virus Plaques. Sekhar Chakrabarti, Kathleen Brechling, and Bernard Moss ........................................................................ 3403-3409

Cloning and Molecular Analysis of the HAP2 Locus: a Global Regulator of Respiratory Genes in Saccharomyces cerevisiae. Jennifer L. Pinkham and Leonard Guarente ........................................................................ 3410-3416


Posttranscriptional Regulation and Assembly into Ribosomes of a Saccharomyces cerevisiae Ribosomal Protein–β-Galactosidase Fusion. Linda Gritz, Nadja Abovich, John L. Teem, and Michael Rosbash ........................................................................ 3436-3442

DNA Precursor Pools and Ribonucleotide Reductase Activity: Distribution between the Nucleus and Cytoplasm of Mammalian Cells. Janet M. Leeds, Mary B. Slabaugh, and Christopher K. Mathews ........................................................................ 3443-3450


Continued on following page
Constitutively Expressed Rat mRNA Encoding a 70-Kilodalton Heat-Shock-Like Protein. Karen O'Malley, Alex Mauron, Jack D. Barchas, and Larry Kedes ................................................................. 3476–3483
Genetic Engineering in the Precambrian: Structure of the Chicken Triosephosphate Isomerase Gene. Donald Straus and Walter Gilbert ......................... 3497–3506
Enhancer-Dependent Expression of the Rat Preproinsulin Gene in Bovine Papillomavirus Type 1 Vectors. Nava Sarver, Ruth Muschel, Janet C. Byrne, George Khoury, and Peter M. Howley ................................................. 3507–3516
Mutations in Cognate Genes of Saccharomyces cerevisiae hsp70 Result in Reduced Growth Rates at Low Temperatures. Elizabeth A. Craig and Kurt Jacobsen ................................................................. 3517–3524
Meiotic Exchange within and between Chromosomes Requires a Common Rec Function in Saccharomyces cerevisiae. J. E. Wagstaff, S. Klapholz, C. S. Waddell, L. Jensen, and R. Easton Esposito ................................................................. 3532–3544
Saccharomyces cerevisiae CYC1 mRNA 5'-End Positioning: Analysis by In Vitro Mutagenesis, Using Synthetic Duplexes with Random Mismatch Base Pairs. J. Bryan McNeil and Michael Smith ................................................. 3545–3551
Effect of Dimethyl Sulfoxide on Human Carcinoma Cells, Inhibition of Plasminogen Activator Synthesis, Change in Cell Morphology, and Alteration of Response to Cholera Toxin. L. Ossowski and D. Belin ................................................................. 3552–3559
Characterization of the Multigene Family Encoding the Mouse S16 Ribosomal Protein: Strategy for Distinguishing an Expressed Gene from Its Processed Pseudogene Counterparts by an Analysis of Total Genomic DNA. Michael Wagner and Robert P. Perry ................................................................. 3560–3576
Isolation of a Simian Virus 40 T-Antigen-Positive, Transformation-Resistant Cell Line by Indirect Selection. Kevin W. Ryan, Joan B. Christensen, Michael J. Imperiale, and William W. Brockman ................................................................. 3577–3582
Selective Translational Regulation of Ribosomal Protein Gene Expression during Early Development of Drosophila melanogaster. Mark A. Kay and Marcelo Jacobs-Lorena ................................................................. 3583–3592
Autogenous Regulation of the Positive Regulatory qa-1F Gene in Neurospora crassa. Virginia B. Patel and Norman H. Giles ................................................................. 3593–3599
Transforming Activity of DNA Fragments from Normal Human Lymphocytes Results from Spontaneous Activation of a c-Ha-ras1 Gene. R. Schäfer, S. Griezel, I. Schwarte, S. Geisse, O. Traub, and K. Willecke ......................... 3617–3620

Continued on following page
Can ACG Serve as an Initiation Codon for Protein Synthesis in Eucaryotic Cells?  
Carl W. Anderson and Elizabeth Buzash-Pollert ................................. 3621–3624

Acquisition of an Intracisternal A-Particle Element by a Translocated c-myc Gene in a Murine Plasma Cell Tumor.  
Robert Greenberg, Robert Hawley, and Kenneth B. Marcu ................................................. 3625–3628

Phosphorylation and Protein Synthetic Events in *Xenopus laevis* Oocytes Micro-injected with pp60⁵⁺src.  
Jordan G. Spivack and James L. Maller ............................... 3629–3633

Structure of the Rat α₁-Acid Glycoprotein Gene.  
Yu-Cheng J. Liao, John M. Taylor, James L. Vannice, Gary A. Clawson, and Edward A. Smuckler 3634–3639

Isolation of Antibodies for Phosphotyrosine by Immunization with a v-abl Oncogene-Encoded Protein.  
Jean Y. J. Wang ...................................................... 3640–3643

Developmental Expression of Rat Transforming Growth Factor-α mRNA.  
David C. Lee, Rosemary Rochford, George J. Todaro, and Luis P. Villarreal 3644–3646

DNA-Mediated Transformation of *Chlamydomonas reinhardi* Cells: Use of Aminoglycoside 3'-Phosphotransferase as a Selectable Marker.  
Seyed E. Hasnain, Elias K. Manavathu, and Wai-Choi Leung ......................... 3647–3650

Date of Issue: 27 November 1985