Biological Frontiers

LETTERS

EDITORIAL
Knowledge as Real Estate: A. Keatley

ARTICLES
Biological Frontiers: F. R. Blattner
Monoclonal Antibodies Reveal the Structural Basis of Antibody Diversity: J.-L. Teillaud et al.
Genes of the Major Histocompatibility Complex in Mouse and Man: M. Steinmetz and L. Hood
Studying Promoters and Terminators by Gene Fusion: M. Rosenberg, A. B. Chepelevinsky, K. McKenney
Transcription of Class III Genes: Formation of Preinitiation Complexes: A. B. Lassar, P. L. Martin, R. G. Roeder
BK Viral Enhancer Element and a Human Cellular Homolog: N. Rosenthal et al.
Insertion Sequence Duplication in Transpositional Recombination: T. A. Weinert, N. A. Schaus, N. D. F. Grindley
Translocations Among Antibody Genes in Human Cancer: P. Leder et al.
Cellular Oncogenes and Multistep Carcinogenesis: H. Land, L. F. Parada, R. A. Weinberg .......................................................... 771

Yeast RNA Polymerase II Genes: Isolation with Antibody Probes: R. A. Young and R. W. Davis ........................................... 778

Directed Mutagenesis of Dihydrofolate Reductase: J. E. Villafranca et al. .................. 782

Surface Molecules Identify Groups of Growing Axons: R. D. G. McKay et al. ......... 788

Modulation of Synapse Fomation by Cyclic Adenosine Monophosphate: M. Nirenberg et al. .................................................. 794

In situ Hybridization to Study the Origin and Fate of Identified Neurons: L. B. McAllister et al. ............................................. 800

Metallothionein–Human GH Fusion Genes Stimulate Growth of Mice: R. D. Palmiter et al. ....................................................... 809

Introduction of Genetic Material into Plant Cells: A. Caplan et al. .......................... 815

NEWS AND COMMENT

Scientists Describe “Nuclear Winter” ............................................. 822

EPA Revs Up to Regulate Biotechnology ........................................ 823

Briefing: Dingell Wants Action on NIH Authorization: House Report Blasts DOE on Oak Ridge Pollution; Revision of Pesticide Law Put on Hold ............................................................ 824

RESEARCH NEWS

Choosing the Next Synchrotron Light Source .................................. 826

Gene Splicers Contemplate the Rat Brain ....................................... 828

COVER

Mouse on the right is more than twice the size of its control sibling because it contains a foreign gene composed of the mouse metallothionein promoter fused to the human growth hormone structural gene. To our knowledge, this is the first example of a human gene expressed in another animal. The metallothionein promoter (yellow) extends in the first exon. Gene exons (cross-hatched areas) represent the part of the gene that becomes the message for human growth hormone. The human growth hormone gene is red. A piece of the pBR322 plasmid is shown in beige. See page 809. [R. L. Brinster and R. E. Hammer, School of Veterinary Medicine, University of Pennsylvania, Philadelphia 19104]
Editor's Summary

This copy is for your personal, non-commercial use only.

**Article Tools**  Visit the online version of this article to access the personalization and article tools:
http://science.sciencemag.org/content/222/4625.citation

**Permissions**  Obtain information about reproducing this article:
http://www.sciencemag.org/about/permissions.dtl