

AN CA99(15):117107a
 TI Molecular cloning of human haptoglobin cDNA: evidence for a single mRNA coding for .alpha.2 and .beta. chains
 AU Vander Straten, A.; Herzog, A.; Jacobs, P.; Cabezon, T.; Bollen, A.
 CS Lab. Genet., Univ. Brussels
 LO Rhode-St-Genese 8-1640, Belg.
 SO EMBO J., 2(6), 1003-7
 SC 3-4 (Biochemical Genetics)
 SX 13
 DT J
 CO EMJODG
 IS 0261-4189
 PY 1983
 LA Eng
 AN CA99(15):117107a
 AB Human haptoglobin (Hp) is a plasma glycoprotein composed of .alpha. and .beta. polypeptide chains that are covalently assocd. by disulfide bonds. It has been suggested that .alpha. and .beta. polypeptides could be synthesized via a common precursor polypeptide. The DNA complementary to human Hp mRNA was cloned. One of the clones, pULB1148, carries a full-length copy that codes for both .alpha.2 and .beta. polypeptides. In vitro translation of human liver mRNA hybridizing with this cDNA gives a protein of 49,000 daltons. The sequence of the .alpha.2.beta. cDNA shows a single arginine residue between glutamine-142 of the .alpha.2 chain and isoleucine-1 of the .beta. chain. With a few minor exceptions, the DNA sequence fits the previously published amino acid sequences. The differences are: the presence of an aspartic acid residue at position 52 of .alpha.2 instead of asparagine, the existence in .beta. of only 1 lysine residue between glycine-65 and the following glutamine, the presence of serine and cysteine at positions 218-219 instead of cysteine-serine, and of aspartic acid residues at positions 205 and 235 instead of asparagine.

L25 ANSWER 30 OF 49

AN CA99(13):100263a
 TI Association between transplantation antigens and a viral membrane protein synthesized from a mammalian expression vector
 AU Paabo, S.; Weber, F.; Kaempe, O.; Schaffner, W.; Peterson, P. A.
 CS Dep. Cell Res., Wallenberg Lab.
 LO Uppsala S-751 22, Swed.
 SO Cell (Cambridge, Mass.), 33(2), 445-53
 SC 3-4 (Biochemical Genetics)
 SX 10, 15
 DT J
 CO CELLB5
 IS 0092-8674
 PY 1983
 LA Eng
 AN CA99(13):100263a
 AB Cells infected or transformed by adenovirus-2 express complexes of the viral E19 protein and class I transplantation antigens. To eliminate the complication of the numerous metabolic changes in adenovirus-infected and -transformed cells, the E19 gene was detached from its viral background by the construction of transient expression vectors in which the E19 coding sequence is flanked by the SV40 early promoter and the 3' region of the rabbit .beta.-globulin gene. E19 prodn. was assayed 2 days after transfection of monkey COS or human HeLa cells with vector DNA. Efficient E19 gene expression depends on

AM 27 014769

the presence of an intron (the 2nd .beta.-globin intron), and the E19 protein is properly processed and anchored in the plasma membrane of transfected cells. The vector-synthesized E19 protein is also assocd. with class I transplantation antigens in human cells, since a fraction of it is copptd. both with antiserum against HLA antigens and with monoclonal antibodies against .beta.2-microglobulin.

L25 ANSWER 31 OF 49

AN CA99(9):65254z

TI Isolation and characterization of cDNA clones for human and bovine fibronectins

AU Kornblihtt, Alberto R.; Vibe-Pedersen, Karen; Baralle, Francisco E.

CS Sir William Dunn Sch. Pathol., Univ. Oxford

LO Oxford OX1 3RE, UK

SO Proc. Natl. Acad. Sci. U. S. A., 80(11), 3218-22

SC 3-3 (Biochemical Genetics)

SX 13

DT J

CO PNASA6

IS 0027-8424

PY 1983

LA Eng

AN CA99(9):65254z

AB A bovine fibronectin (FN) cDNA clone (pFB1) was isolated by screening a cDNA library of calf testis fibroblasts with a synthetic oligonucleotide probe. The probe was a mixt. of 8 14-base-long oligonucleotides designed from the amino acid sequence Glu-Cys-Phe-Met-Pro present in the 3000-mol.-wt. C-terminal fragment of bovine plasma FN. Plasmid pFB1 contained a 1000-base-pair (bp) insert comprising the complete 3' noncoding sequence (690 bp) and .apprx.300 bp of the coding region. Clone pFB1 was used as a radioactive probe in the screening of a human cell line (Hs 578T) cDNA library. Eleven pos. cDNA clones were detected; 1 (pFH1) contained a 2000-bp insert comprising the complete 3' noncoding region (693 bp) and .apprx.1300 bp of the coding region of human FN. The sequences of the clone pFB1 insert and of the homologous region in clone pFH1 were detd. The nucleotide sequences were 90% homologous. Six amino acid changes were found, clustered in an area connecting 2 structural domains described in bovine plasma FN. Furthermore, the 204 C-terminal amino acid sequence of bovine FN was completed by overlapping 2 peptide fragments (mol. wts. 3000 and 23,000). Clone pFH1 was used in estg. the size of human fibronectin mRNA (7900 bases) through blot hybridization anal. Southern blot studies suggest that human FN is coded by a unique gene.

L25 ANSWER 32 OF 49

AN CA99(3):17450p

TI Nucleotide sequence of a cDNA for the common .alpha. subunit of the bovine pituitary glycoprotein hormones. Conservation of nucleotides in the 3'-untranslated region of bovine and human pre-.alpha. subunit mRNAs

AU Nilson, John H.; Thomason, Arlen R.; Cserbak, Marian T.; Moncman, Carole L.; Woychik, Richard P.

CS Sch. Med., Case Western Reserve Univ.

LO Cleveland, OH 44106, USA

SO J. Biol. Chem., 258(8), 4679-82

SC 3-3 (Biochemical Genetics)

SX 2, 13

AM 27 014770

AM-ITC 00454706

DT J

CO JBCHA3

IS 0021-9258

PY 1983

LA Eng

AN CA99(3):17450p

AB A cDNA clone for the pre-.alpha. subunit of the pituitary glycoprotein hormones was isolated from a bovine pituitary cDNA library with a pool of synthetic oligodeoxynucleotide probes. This clone, designated pB.alpha., contains a 564-base-pair insert which includes a portion of the signal sequence, the entire coding sequence of the mature protein, and 224 base pairs of the 3'-untranslated sequence. The nucleotide and amino acid sequences for the mature bovine .alpha. subunit were homologous to the sequences reported for humans and rodents, with the most extensive homol. occurring between cattle and rodents (85-90%). However, a comparison of the 3'-untranslated regions of pre-.alpha. subunit mRNA from 3 different mammalian species indicated that in cattle and rat, or in human and rat, these sequences have rapidly diverged, and showed resp. homologies of 21 and 36%. In contrast, the sequence homol. obsd. between the 3'-untranslated regions of cattle and human was 79%, which approaches the level of homol. shared by their coding sequences. Thus, the conservation of the 3'-untranslated sequence in bovine and human pre-.alpha. subunit mRNA might indicate that this region is functionally significant in these 2 species.

L25 ANSWER 33 OF 49

AN CA99(1):1181r

TI The human thyroglobulin gene contains two 15-17 kb introns near its 3'-end

AU Van Ommen, Gert Jan B.; Arnberg, Annika C.; Baas, Frank; Brocas, Huguette; Sterk, Andre; Tegelaers, Wil H. H.; Vassart, Gilbert; De Vijlder, Jan J. M.

CS Dep. Pediatr. Endocrinol., Acad. Med. Cent.

LO Amsterdam 1105 AZ, Neth.

SO Nucleic Acids Res., 11(8), 2273-85

SC 3-3 (Biochemical Genetics)

SX 2, 13

DT J

CO. NARHAD

IS 0305-1048

PY 1983

LA Eng

AN CA99(1):1181r

AB Overlapping segments of the human thyroglobulin gene were cloned from a genomic cosmid library. Restriction mapping and electron microscopy show that a region of 38 kilobases (kb) at or near the 3'-end of this gene encodes only 850 nucleotides or 10% of the mRNA sequence. The region contains 5 exons of 130-210 nucleotides, split by introns of 1 to 15-17 kb. This represents the lowest ratio of coding to noncoding DNA (2.2%) found to date in any eukaryotic gene. Blot hybridization under nonstringent conditions shows the presence of only 1 copy of this gene in the human genome and the absence of other closely related sequences.

L25 ANSWER 34 OF 49

AN CA98(19):155863f

TI Molecular cloning of human genes for serum amyloid A

AM 27 014771

AM-ITC 00454707

AU Sack, George H., Jr.
 CS Sch. Med., Johns Hopkins Univ.
 LO Baltimore, MD 21205, USA
 SO Gene, 21(1-2), 19-24
 SC 3-4 (Biochemical Genetics)
 DT J
 CO GENED6
 IS 0378-1119
 PY 1983
 LA Eng
 AN CA98(19):155863f
 AB Three human DNA fragments hybridizing to a mouse cDNA plasmid for the acute phase protein amyloid A were isolated from the human lambda. Charon 4A phage library. Two of these recombinants, GSAA1 [12.8 kilobase (kb) insert] and GSAA 2 (15.9 kb insert), share an apparently identical internal region of 9.7 kb, whereas the 3rd, GSAA3 (15.95 kb insert), shows different restriction enzyme fragments. Hybridization studies localize the coding region to single HindIII fragments and suggest that all coding information is present in these recombinants; these fragments were subcloned into pBR322 and mapped for further study.

L25 ANSWER 35 OF 49

AN CA98(13):102082u
 TI Cloning of several cDNA segments coding for human liver proteins
 AU Costanzo, F.; Castagnoli, L.; Dente, L.; Arcari, P.; Smith, M.; Costanzo, P.; Raugei, G.; Izzo, P.; Pietropaolo, T. C.; et al.
 CS Eur. Mol. Biol. Lab.
 LO Heidelberg D-6900, Fed. Rep. Ger.
 SO EMBO J., 2(1), 57-61
 SC 3-4 (Biochemical Genetics)
 SX 13
 DT J
 CO EMJODG
 PY 1983
 LA Eng
 AN CA98(13):102082u
 AB A human cDNA library was constructed with phage M13 deriv. vectors. The simple and rapid procedures for sequencing single-stranded DNA by the dideoxy chain termination method allowed a screening of individual clones directly by DNA sequence anal. Some of these clones were identified as coding for serum albumin, alpha.1-antitrypsin [9041-92-3], retinol-binding protein, prothrombin [9001-26-7], haptoglobin, and metallothionein. Furthermore, a clone coding for aldolase B [9024-52-6] was tentatively identified on the basis of high sequence homol. with rabbit muscle aldolase.

L25 ANSWER 36 OF 49

AN CA98(5):32063n
 TI Enamel extracellular matrix: differentiation specific gene products and the control of their synthesis and accumulation during development
 AU Slavkin, Harold C.; Zeichner-David, Margarita; Siddiqui, M. A. Q.
 CS Lab. Dev. Biol., Univ. South. California
 LO Los Angeles, CA, USA
 SO Int. Congr. Ser. - Excerpta Med., 589(Curr. Adv. Skeletogenesis), 24-33

AM 27 014772

AM-ITC 00454708

SC 13-3 (Mammalian Biochemistry)

SX 3

DT J

CO EXMDA4

IS 0531-5131

PY 1982

LA Eng

AN CA98(5):32063n

AB The major fetal rabbit enamel protein is a 70,000-mol.-wt. acidic glycoprotein, termed enamelin (I). It has an amino acid compn. dissimilar to that previously published for mammalian enamel matrix amelogenins. Rabbit anti-fetal rabbit enamel protein antisera were used to localize protein synthesis and secretion during cap stage molar organogenesis in serumless medium. Whereas the Trowell method for organ culture and serumless medium was permissive for odontoblast and ameloblast differentiation, no mineralization was obsd. These observations suggest that during rabbit tooth development in vitro, morphogenesis, and tissue-specific differentiation are not dependent upon serum-derived humoral factors. Dentin mineralization is not required for subsequent epithelial differentiation into ameloblasts. Recent tech. advances in the isolation of enamel mRNAs enable the construction of fetal rabbit enamel cDNA clones and the future investigation of gene expression during amelogenesis.

L25 ANSWER 37 OF 49

AN CA97(23):193983g

TI Construction of recombinant plasmids containing rat thyroglobulin mRNA sequences

AU Di Lauro, Roberto; Obici, Silvana; Acquaviva, Angela M.; Alvino, Claudio G.

CS Fac. Med. Chir., Univ. Napoli

LO Naples 80131, Italy

SO Gene, 19(1), 117-25

SC 3-4 (Biochemical Genetics)

DT J

CO GENED6

IS 0378-1119

PY 1982

LA Eng

AN CA97(23):193983g

AB Two plasmids contg. rat thyroglobulin cDNA sequences were constructed and characterized. A plasmid with a 500-base-pair (bp) insert (pRT6) was isolated and identified as thyroglobulin-specific on the basis of the tissue specificity of the inserted sequence and of its ability to retain thyroglobulin mRNA on a nitrocellular filter. The cDNA insert in pRT6 was subsequently used to screen rat thyroid cDNA library constructed with large cDNA. A plasmid was found contg. a 1700-bp insert. The polarity and the fidelity of the insert was demonstrated by S1 mapping.

L25 ANSWER 38 OF 49

AN CA97(13):108150r

TI Kinetics of induction of alpha.1-acid glycoprotein

AU Ricca, George A.; McLean, John W.; Taylor, John M.

CS Milton S. Hershey Med. Cent., Pennsylvania State Univ.

LO Hershey, PA 17033, USA

SO Ann. N. Y. Acad. Sci., 389(C-React. Protein Plasma Protein Response Tissue Inj.), 88-105

AM 27 014773

AM-ITC 00454709

SC 14-11 (Mammalian Pathological Biochemistry)
 SX 3
 DT J
 CO ANYAA9
 IS 0077-8923
 PY 1982
 LA Eng
 AN CA97(13):108150r
 AB This investigation describes the cloning of rat .alpha.1-acid glycoprotein (.alpha.1-AGP) double-stranded cDNA, the development of a new method for the synthesis of a radiolabeled cDNA hybridization probe directly from the cloned DNA, the utilization of this hybridization probe to demonstrate that acute inflammation causes an increased accumulation of .alpha.1-AGP mRNA that is responsible for the increased plasma concn. of this protein, and the complete nucleotide sequence of rat .alpha.1-AGP mRNA.

L25 ANSWER 39 OF 49

AN CA97(11):86287m
 TI Expression of the structural proteins of Semliki Forest virus from cloned cDNA microinjected into the nucleus of baby hamster kidney cells
 AU Kondor-Koch, Claudia; Riedel, Heimo; Soederberg, Kathy; Garoff, Henrik
 CS Eur. Mol. Biol. Lab.
 LO Heidelberg, Fed. Rep. Ger.
 SO Proc. Natl. Acad. Sci. U. S. A., 79(15), 4525-9
 SC 3-4 (Biochemical Genetics)
 SX 13
 DT J
 CO PNASA6
 IS 0027-8424
 PY 1982
 LA Eng
 AN CA97(11):86287m
 AB The 3 structural proteins of Semliki Forest virus (the capsid, p62, and E1 proteins) were expressed in baby hamster kidney cells from cloned DNA transcribed from the virus-specific 4.1-kilobase mRNA. The cDNA was engineered into an expression vector downstream from the simian virus 40 early promoter and was introduced into cell nuclei by microneedle injection. Immunofluorescence anal. of injected cells showed that the capsid protein was located in the cytoplasm, whereas the membrane proteins were assocd. with cellular membranes. The p62 protein was transport from the rough endoplasmic reticulum to the plasma membrane, whereas the E1 protein remained in the rough endoplasmic reticulum.

L25 ANSWER 40 OF 49 --

AN CA96(23):194358y
 TI Isolation and characterization of a fragment of rat thyroglobulin gene
 AU Christophe, D.; Pohl, V.; Van Heuverswijn, B.; De Martynoff, G.; Brocas, H.; Dumont, J. E.; Pasteels, J. L.; Vassart, G.
 CS Inst. Rech. Interdiscip., Hop. Erasme
 LO Brussels 1070, Belg.
 SO Biochem. Biophys. Res. Commun., 105(3), 1166-75
 SC 3-3 (Biochemical Genetics)
 SX 13

AM 27 014774

AM-ITC 00454710

DT J
 CO BBRC A9
 IS 0006-291X
 PY 1982
 LA Eng
 AN CA96(23):194358y
 AB A rat genomic library was screened for thyroglobulin gene clones with recombinant plasmids contg. rat thyroglobulin complementary DNA inserts. Two identical recombinant phages were found. A map of the inserted genomic sequence established by restriction and blotting expts., and electron microscopy revealed that this fraction of the gene was extensively split. Exons were .1toeq.200 base pair long whereas the introns represented 93% of the insert. A fragment subcloned in plasmid pBR322 contained repetitive sequences when used in Southern blot expts. with rat total genomic DNA.

L25 ANSWER 41 OF 49

AN CA96(13):98744a
 TI Rat alpha1-acid glycoprotein: cloning and nucleotide sequence of double-stranded cDNA and induction of mRNA levels following acute inflammation
 AU Ricca, George A.
 CS Pennsylvania State Univ.
 LO University Park, PA, USA
 SO 86 pp. Avail. Univ. Microfilms Int., Order No. 8129205
 From: Diss. Abstr. Int. B 1981, 42(7), 2815-16
 SC 3-4 (Biochemical Genetics)
 SX 13
 DT D
 PY 1981
 LA Eng
 AN CA96(13):98744a
 AB Unavailable

L25 ANSWER 42 OF 49

AN CA95(19):166589k
 TI Rat .alpha.1-acid glycoprotein mRNA. Cloning of double-stranded cDNA and kinetics of induction of mRNA levels following acute inflammation
 AU Ricca, George A.; Hamilton, Robert W.; McLean, John W.; Conn, Ardell; Kalinyak, Judith E.; Taylor, John M.
 CS Milton S. Hershey Med. Cent., Pennsylvania State Univ.
 LO Hershey, PA 17033, USA
 SO J. Biol. Chem., 256(20), 10362-8
 SC 14-1 (Mammalian Pathological Biochemistry)
 DT J
 CO JBCHA3
 IS 0021-9258
 PY 1981
 LA Eng
 AN CA95(19):166589k
 AB Messenger RNA preps. from the livers of normal rats and those with acute inflammation were translated in a mRNA-dependent cell-free protein-synthesizing system. Immunopptn. of the translation products with a specific antibody prepd. against purified rat plasma .alpha.1-acid glycoprotein (.alpha.1-AGP) detected an abundant 23,000 mol. wt. peptide induced by inflammation. In order to examine the regulation of this acute-phase protein, a double-stranded complementary (c) DNA to partially purified rat .alpha.1-AGP mRNA was

AM 27 014775

AM-ITC 00454711

synthesized, inserted into the Pst I site of the plasmid pBR322 by a GC-tailing technique, and used to transform *Escherichia coli* RR1. A recombinant plasmid contg. a 740-base pair insert with a contiguous poly(dA) segment was identified as contg. .alpha.1-AGP cDNA sequences by partial DNA sequence anal., and by specific hybrid selection of mRNA followed by in vitro translation and immunopptn. The cloned double-stranded cDNA isolated from the recombinant pBR322 vector was recloned in the single-stranded DNA bacteriophage M13mp7 in order to develop a specific hybridization probe for mRNA quantitation. The .alpha.1-AGP-specific cDNA probe was used to examine .alpha.1-AGP mRNA levels in total liver RNA during a period of 48 h following the induction of acute inflammation by the administration of turpentine. In normal rat liver, .alpha.1-AGP mRNA comprised about 0.0006% of total cellular RNA. An increase in the amt. of .alpha.1-AGP mRNA was first detected 4 h after the onset of inflammation, and it reached a max. level of induction at 36 h following the administration of the inflammatory agent. At this point, .alpha.1-AGP mRNA comprised about 0.053% of total cellular RNA, representing a 90-fold increase over its normal level. This induction was assocd. with a substantial increase in the circulating plasma concn. of .alpha.1-AGP, as measured by quant. rocket immunoelectrophoresis. Apparently, acute inflammation causes an increased accumulation of a specific mRNA which is responsible for the increased plasma concn. of .alpha.1-AGP.

L25 ANSWER 43 OF 49

AN CA95(17):146928s
 TI Genomes of murine leukemia viruses isolated from wild mice
 AU Chattopadhyay, Sisir K.; Oliff, Allen I.; Linemeyer, David L.;
 Lander, Marilyn R.; Lowy, Douglas R.
 CS Dermatol. Branch, Natl. Cancer Inst.
 LO Bethesda, MD 20205, USA
 SO J. Virol., 39(3), 777-91
 SC 10-4 (Microbial Biochemistry)
 DT J
 CO JOVIAM
 IS 0022-538X
 PY 1981
 LA Eng
 AN CA95(17):146928s

AB. The genomes of murine leukemia viruses (MuLV) isolated from wild mice were studied. Detailed restriction endonuclease maps of the 8.8-kilobase (kb) unintegrated linear viral DNAs were derived for 5 ecotropic and 5 amphotropic MuLVs from California field mice, for Friend MuLV, and for 1 ecotropic and 1 xenotropic MuLV from *Mus musculus castaneus*. In general, the California MuLVs were similar in their leftward 6 kb (corresponding to the leftward long terminal repeat [LTR], gag, and pol) and rightward 1 kb (7.8-8.8 kb, corresponding to p15E and the rightward LTR). For the region spanning 6.0-7.7 kb (which includes the sequences that encode gp70) the amphotropic MuLVs shared few enzyme sites with the ecotropic MuLVs, although the California ecotropic MuLVs were highly related to each other in this region, as were the amphotropic MuLVs. Cross-hybridization studies between amphotropic and California ecotropic MuLV DNAs indicated that they were not homologous in the region 6.3-7.6 kb; the California ecotropic viral DNAs cross-hybridized in this region to AKR ecotropic MuLV. When the California viral DNAs were compared with AKR ecotropic viral DNA, many differences in enzyme sites were noted throughout the genome. The U3 regions of the wild mouse LTRs showed partial homol. to this

AM 27 014776

AM-ITC 00454712

region in AKR MuLV. The LTR of Moloney MuLV was highly related to that of the California MuLVs, whereas the LTR of Friend MuLV appeared to be a recombinant between the 2 types of LTRs. The *M. musculus castaneus* isolates were most closely related to ecotropic and xenotropic MuLVs isolated from inbred mice. One amphotropic MuLV DNA was cloned in pBR322 from supercoiled viral DNA at its unique EcoRI site. Viral DNAs with 1 and 2 LTRs were isolated. After digestion with EcoRI, DNAs of both types were infectious. It is concluded that ecotropic and amphotropic MuLVs differ primarily in the region which encodes gp70.

L25 ANSWER 44 OF 49

AN CA94(1):1929n

TI Molecular cloning of Pst I fragments from rat double-stranded thyroglobulin complementary DNA

AU Scherberg, Neal; Vassart, Gilbert

CS Fac. Med., Univ. Libre Bruxelles

LO Brussels 1000, Belg.

SO Biochem. Biophys. Res. Commun., 96(4), 1785-92

SC 10-4 (Microbial Biochemistry)

DT J

CO BBBCA9

IS 0006-291X

PY 1980

LA Eng

AN CA94(1):1929n

AB Thyroglobulin mRNA was prepd. from thyroid glands of rats treated with propylthiouracil. The double-stranded complementary DNA was synthesized using avian myeloblastosis virus reverse transcriptase and subjected to restriction with the endonuclease Pst I. The restriction fragments were ligated into the unique Pst I site of the plasmid pBR 322 and the resulting recombinant DNA was used to transform *Escherichia coli* to tetracycline resistance. The colonies harboring recombinant plasmids (42 out of 1852) could be classified into 3 categories contg., resp., 320, 550, and 640 base pair inserts. One clone from each size class was selected and the ability of their plasmid DNA to bind functional-active rat thyroglobulin mRNA was demonstrated in a pos. translation assay. Altogether, the 3 cloned DNA fragments represent .apprx.20% of the thyroglobulin structural gene sequence.

L25 ANSWER 45 OF 49

AN CA93(25):233074n

TI Molecular cloning of bovine thyroglobulin complementary DNA.

Characterization of 2500-base-pair and 1900-base-pair fragments

AU Christophe, Daniel; Flocas, Huguette; Gannon, Frank; De Martynoff, Guy; Pays, Etienne; Vassart, Gilbert

CS Fac. Med., Univ. Libre Bruxelles

LO Brussels, Belg.

SO Eur. J. Biochem., 111(2), 419-23

SC 6-2 (General Biochemistry)

DT J

CO EJBCAI

IS 0014-2956

PY 1980

LA Eng

AN CA93(25):233074n

AB Double-stranded thyroglobulin complementary DNA (cDNA) was

AM 27 014777

AM-ITC 00454713

synthesized from purified 33 S bovine thyroglobulin mRNA. This synthetic structural gene has previously been shown to contain 3 sites for the restriction endonuclease HindIII, yielding 2 internal fragments of 1900 and 2500 base pairs, resp. Recombinant mols. were prepd. by ligating the HindIII-restricted cDNA to the plasmid pBR322 which had been linearized by the same enzyme. When Escherichia coli was transformed with this mixt., it yielded 2 kinds of colonies each harboring recombinant plasmids contg. 1 of the 2 cDNA fragments. Both recombinant mols. hybridized specifically to translatable thyroglobulin mRNA. Sequence homol. between the 2 cloned DNAs could not be detected by cross-hybridization expts.; this argues against the existence of internal structural repetition in thyroglobulin subunits. Together, the 2 cloned DNA fragments represent 55% of the 8000-base-pair double-stranded thyroglobulin DNA.

L25 ANSWER 46 OF 49

AN CA93(21):200835h

TI Molecular dissection of Rauscher virus gp70 by using monoclonal antibodies: Localization of acquired sequences of related envelope gene recombinants

AU Niman, Henry L.; Elder, John H.

CS Dep. Cell. Dev. Immunol., Res. Inst. Scripps Clin.

LO La Jolla, CA 92037, USA

SO Proc. Natl. Acad. Sci. U. S. A., 77(8), 4524-8

SC 10-4 (Microbial Biochemistry)

SX 15

DT J

CO PNASA6

IS 0027-8424

PY 1980

LA Eng

AN CA93(21):200835h

AB Using hybridoma-specific immune pptns. of fragments derived from Rauscher virus glycoprotein gp70, coupled with peptide patterns (fingerprinting) and partial amino acid sequence analyses, a linear map of Rauscher gp70 was generated. A panel of 56 hybridomas derived from the fusion of the drug-selected SP-2 myeloma line with spleen cells from either a 129 GIX+ or a GIX- mouse immunized with purified Rauscher virus gp70 were used. By natural breakdown, gp70 splits into predominant fragments with Mr 45,000 (P45), 34,000 (P34), and 32,000 (P32). Peptide fingerprinting of these as well as overlapping fragments coupled with partial amino acid sequence analyses allowed to align the fragments into the linear arrangement NH₂-P45-P32-CO₂H, with p34 being an N-terminal degrdn. product of P45. Of the 56 hybridomas, 20 immunopptd. both P45 and P34; 18 immunopptd. only P45; and 18 immunopptd. only P32. The hybridomas thus define 3 domains of the mol. as NH₂-P45/P34, P45 only, and P32-CO₂H. Allowing these hybridomas to react with 2 Rauscher-derived envelope gene recombinant viruses yielded the following results: all 20 P45/34 reactors bound to the 2 Rauscher recombinants; of 18 P45-only hybridomas, 10 reacted; and only 1 of 18 P32 reactors bound to the Rauscher recombinants. This last hybridoma reacted with various murine retroviruses, indicating that it was directed at conserved determinants of gp70. Peptide fingerprinting of Rauscher gp70, the recombinant gp70s, and their resp. breakdown products confirmed the homologies and nonhomologies defined by the hybridomas. Furthermore, peptide patterns showed that these acquired sequences on the C-terminal portion of the recombinant gp70s are related to xenotropic virus gp70s.

AM 27 014778

AM-ITC 00454714

L25 ANSWER 47 OF 49

AN CA90(3):20606p
 TI Purification and characterization of a murine tumor cell surface glycoprotein of 75,000 daltons that is related to the major envelope glycoprotein of murine leukemia virus
 AU McLellan, W. L.; Ihle, J. N.
 CS Frederick Cancer Res. Cent., Natl. Cancer Inst.
 LO Frederick, Md., USA
 SO Virology, 89(2), 547-59
 SC 15-2 (Immunochemistry)
 SX 6, 10
 DT J
 CO VIRLAX
 IS 0042-6822
 PY 1978
 LA Eng

AN CA90(3):20606p
 AB An antigen, p 30, which competes with murine C-type viral glycoprotein in an interspecies radioimmunocompetition assay was purified from the surface of EL-4 tumor cells, which are virus particle neg. The amt. of p30 was extremely low, confirming that the tumor cell was not expressing a murine oncornavirus. A glycoprotein similar but not identical to Rauscher virus glycoprotein antigen gp71 was also detected on the surface of the tumor cell. The gp71 crossreactive antigen was purified by Li diiodosalicylate extn. and chromatog. It is a glycoprotein, named gp75, of .apprx.75,000 daltons which was pptd. by various broadly reactive antisera to murine gp71s and antisera to murine virus. Purified gp75 was not related to Rauscher gp71, but did compete in an assay using BALB/2 xenotropic gp71 and anti-C57/L virus serum. It also competed in an assay using Moloney virus gp71 and anti-Moloney virus serum, but not in a more type-specific assay using 125I-Moloney virus gp71 and anti-Moloney gp71 serum. Tryptic peptide maps of iodinated proteins were prepd. and gp75 was compared with various gp71 antigens of different origins; the antigen was not very similar to any viral gp71. The differences in the structures of the various viral gp71s are consistent with the idea that the env genes of murine viruses which code for gp71s are sites of frequent recombinational events. Recombination between different endogenous viral sequences or between viral and host allelic genomes may have resulted in many immunol. related proteins on viruses, cell surfaces, and mouse serum. The antigens are immunol. related, have similar mol. wts. (.apprx.70,000), but have divergent structure.

L25 ANSWER 48 OF 49

AN CA89(11):87056g
 TI Structural analysis of the surface glycoproteins (gp70's) of recombinant murine C-type viruses: evidence for envelope gene recombination
 AU Elder, John H.; Jensen, Fred C.; Gautsch, James W.; Lerner, Richard A.; Vogt, Marguerite
 CS Scripps Clin. Res. Found.
 LO La Jolla, Calif., USA
 SO Adv. Comp. Leuk. Res., Proc. Int. Symp., 8th, Meeting Date 1977, 156-9. Edited by: Bentvelzen, Peter; Hilgers, Jo; Yohn, David S. Elsevier: Amsterdam, Neth.
 SC 10-4 (Microbial Biochemistry)

AM 27 014779

AM-ITC 00454715

DT C

CO 38PCAA

PY 1978

LA Eng

AN CA89(11):87056g

AB Tryptic peptide anal. of the surface glycoprotein gp70 isolated from several recombinant murine C-type viruses with the gp70 of parental viruses showed that the recombinants tested are the progeny of recombination between endogenous ecotropic and xenotropic C-type viruses, and further, that the recombination has occurred within the envelope gene encoding gp70. The possible consequences of such recombinations relative to the oncogenic potential of these viruses are discussed.

L25 ANSWER 49 OF 49

AN CA87(25):197155e

TI Biochemical evidence that MCF murine leukemia viruses are envelope (env) gene recombinants

AU Elder, John H.; Gautsch, James W.; Jensen, Fred C.; Lerner, Richard A.; Hartley, Janet W.; Rowe, Wallace P.

CS Dep. Cell. Dev. Immunol., Scripps Clin. Res. Found.

LO La Jolla, Calif., USA

SO Proc. Natl. Acad. Sci. U. S. A., 74(10), 4676-80

SC 10-4 (Microbial Biochemistry)

DT J

CO PNASA6

PY 1977

LA Eng

AN CA87(25):197155e

AB By tryptic peptide anal., the surface glycoproteins (gp70) of 4 isolates of mink cell focus-inducing strains (MCF) of murine type C viruses were compared with the gp70 of various possible parental viruses. In addn., the tryptic peptides of the gag gene products p30 and p15 from several of these viruses were compared. The results allow the following conclusions: (i) the gp70 of the MCF are not identical to one another and are different from the gp70 of the possible parental viruses tested; (ii) the MCF gp70 have tryptic peptides in common with xenotropic virus gp70 as well as with ecotropic virus gp70; and (iii) the gag region protein, p30, of MCF is identical to p30 of AKR ecotropic virus (Akv-1 or Akv-2) and distinct from p30 of xenotropic viruses, suggesting that the 5' end of the recombinant viruses is of Akv origin. The findings are discussed with respect to the possible role a recombinant virus might play in leukemogenesis in AKR mice.

=> dis his.

(FILE HOME)

FILE CA

L1 19741 S RECOMBINATION(W)GENETIC OR MOLECULAR(W)CLONIN
 L2 4887 S CDNA OR BIOTECHNOLOG?
 L3 30134 S (MEMBRANE OR SURFACE)(W)PROTEIN? OR GLYCOPROT
 L4 497 S (L1 OR L2) AND L3
 L5 350 S L4 RAN=(1985,1988)
 L6 147 S L4 NOT L5
 L7 55592 S ESCHERICIHA OR COLI
 L8 56636 S L7 OR ESCHERICHIA

AM 27 014780

AM-ITC 00454716

L9 102 S L6 NOT L8
L10 6673 S CLATHRIN OR FIBRONECTIN? OR LAMININ# OR DRUG(
L11 5229 S AMYLOID# OR ASIALOGLYCOPROTEIN# OR AVIDIN# OR
L12 8103 S COLONY(W)STIMULATI? OR MUCOPROTEIN# OR PEPTID
L13 4191 S THROMBOPOIETIN OR THYROGLOBULIN# OR ERYTHROPO
L14 4669 S GLYCOSYLAT? OR CARBOHYDRATE#(2A)(STRUCTUR? OR
L15 756 S (L1 OR L2) AND (L3 OR L10 OR L11 OR L12 OR L1
L16 543 S L15 RAN=(1985,1988)
L17 213 S L15 NOT L16
L18 148 S L17 NOT (ESCHERICHIA OR COLI OR BACTERIA#)
L19 27285 S BACILLUS OR SUBTILIS OR DROSOPHILA OR MELANOG
L20 146 S L18 NOT L19
L21 5 S TRYPANOSMA(W)BRUCEI
L22 795 S TRYPANOSOMA(W)BRUCEI
L23 114 S L20 NOT (L21 OR L22)
L24 486245 S HUMAN# OR MAMMAL? OR BOVINE OR MURINE OR RAT
L25 49 S L23 AND (L24 OR BHK OR COS)

=>

AM 27 014781

AM-ITC 00454717

Chem Abs 1763 -> 1747
*"recombinant" * glycosylation / membrane proteins"*

L2D ANSWER 1 OF 146

AN CA101(25):223888a
TI Apparent discontinuous transcription of Trypanosoma brucei variant surface antigen genes
AU Campbell, David A.; Thornton, Deborah A.; Boothroyd, John C.
CS Sch. Med., Stanford Univ.
LO Stanford, CA 94305, USA
SO Nature (London), 311(5984), 350-5
SC 3-3 (Biochemical Genetics)
SX 10
DT J
CO NATUAS
IS 0028-0836
PY 1984
LA Eng

L2D ANSWER 2 OF 146

AN CA101(25):223801s
TI Characterization of a cDNA coding for human protein C
AU Foster, Donald; Davie, Earl W.
CS Dep. Biochem., Univ. Washington
LO Seattle, WA 98195, USA
SO Proc. Natl. Acad. Sci. U. S. A., 81(15), 4766-70
SC 3-3 (Biochemical Genetics)
SX 13
DT J
CO PNASA6
IS 0027-8424
PY 1984
LA Eng

L2D ANSWER 3 OF 146

AN CA101(21):185170a
TI Comparison of different eukaryotic vectors for the expression of hemagglutinin glycoprotein of influenza virus
AU Gething, Mary Jane; Sambrook, Joseph F.; Braciale, Thomas J.; Brand, Colin M.
CS Cold Spring Harbor Lab.
LO Cold Spring Harbor, NY 11724, USA
SO Mod. Approaches Vaccines: Mol. Chem. Basis Virus Virulence Immunogenicity, [Pap. Conf.], Meeting Date 1983, 263-8. Edited by: Chanock, Robert M.; Lerner, Richard Alan. Cold Spring Harbor Lab.: Cold Spring Harbor, N. Y.
SC 3-4 (Biochemical Genetics)
DT C
CO 52CRA4
PY 1984
LA Eng

L2D ANSWER 4 OF 146

AN CA101(21):185138w
TI Isolation of cDNA clones for the chicken neural cell adhesion molecule (N-CAM)

AM 27 014782

AM-ITC 00454718

AU Murray, Ben A.; Hemperly, John J.; Gallin, Warren J.; MacGregor, John S.; Edelman, Gerald M.; Cunningham, Bruce A.
CS Rockefeller Univ.
LO New York, NY 10021, USA
SO Proc. Natl. Acad. Sci. U. S. A., 81(17), 5584-8
SC 3-3 (Biochemical Genetics)
SX 12
DT J
CO PNASA6
IS 0027-8424
PY 1984
LA Eng

L20 ANSWER 5 OF 146

AN CA101(21):185100c
TI Rat major acute-phase protein: biosynthesis and characterization of a cDNA clone
AU Anderson, Kathleen P.; Martin, Anna D.; Heath, Edward C.
CS Coll. Med., Univ. Iowa
LO Iowa City, IA 52242, USA
SO Arch. Biochem. Biophys., 233(2), 624-35
SC 3-3 (Biochemical Genetics)
SX 13, 14
DT J
CO ABBIA4
IS 0003-9861
PY 1984
LA Eng

L20 ANSWER 6 OF 146

AN CA101(21):184943t
TI Telomeric DNA rearrangements and antigenic variation in African trypanosomes
AU Pays, Etienne; Steinert, Maurice
CS Dep. Biol. Mol., Univ. Libre Bruxelles
LO Rhode Saint Genese 81640, Belg.
SO Horm. Cell Regul., 8, 289-308
SC 3-0 (Biochemical Genetics)
SX 15
DT J
CO HCREDN
IS 0166-0969
PY 1984
LA Eng

L20 ANSWER 7 OF 146

AN CA101(21):184919d
TI Eukaryotic expression of cloned cDNA coding for influenza viral glycoproteins using an SV40 vector: use of recombinant DNA mutants to study structure-function relationships
AU Bos, Timothy J.; McQueen, Nancy L.; Davis, Alan R.; Nayak, Debi P.
CS Sch. Med., UCLA
LO Los Angeles, CA 90024, USA
SO Segmented Negat. Strand Viruses: Arenaviruses, Bunyaviruses, Orthomyxoviruses, [Proc. Symp. Mol. Biol. Negat. Strand Viruses], Meeting Date 1983, 125-30. Edited by: Compans, Richard W.; Bishop, David H. L. Academic: Orlando, Fla.



AM 27 014783

AM-ITC 00454719

SC 3-D (Biochemical Genetics)
DT C
CO 52EJAO
PY 1984
LA Eng

L20 ANSWER 8 OF 146

AN CA101(19):164715s
TI Cloning and physical mapping of a gene fragment coding for a
64-kilodalton major late antigen of human cytomegalovirus
AU Pande, Hema; Baak, Steven W.; Riggs, Arthur D.; Clark, Brian R.;
Shively, John E.; Zaia, John A.
CS Div. Immunol., Beckman Res. Inst. City of Hope
LO Duarte, CA 91010, USA
SO Proc. Natl. Acad. Sci. U. S. A., 81(15), 4965-9
SC 3-4 (Biochemical Genetics)
SX 15
DT J
CO PNASA6
IS 0027-8424
PY 1984
LA Eng

L20 ANSWER 9 OF 146

AN CA101(19):164631m
TI Nucleotide sequence of rat haptoglobin cDNA. Characterization of the
.alpha..beta.-subunit junction region of prohaptoglobin
AU Goldstein, Leslie A.; Heath, Edward C.
CS Coll. Med., Univ. Iowa
LO Iowa City, IA 52242, USA
SO J. Biol. Chem., 259(14), 9212-17
SC 3-3 (Biochemical Genetics)
SX 13
DT J
CO JBCHA3
IS 0021-9258
PY 1984
LA Eng

L20 ANSWER 10 OF 146

AN CA101(17):145013v
TI Molecular cloning of cDNA encoding a murine hematopoietic growth
regulator, granulocyte-macrophage colony stimulating factor
AU Gough, Nicholas M.; Gough, Jill; Metcalf, Donald; Kelso, Anne; Grail,
Dianne; Nicola, Nicos A.; Burgess, Antony W.; Dunn, Ashley R.
CS Melbourne Tumour Biol. Branch, Ludwig Inst. Cancer Res.
LO Melbourne 3050, Australia
SO Nature (London), 309(5971), 763-7
SC 3-3 (Biochemical Genetics)
SX 13, 15
DT J
CO NATUAS
IS 0028-0836
PY 1984
LA Eng

L20 ANSWER 11 OF 146

AM 27 014784

AM-ITC 00454720

AN CA101(15):128828x
 TI Production of an HSV subunit vaccine by genetically engineered mammalian cell lines
 AU Lasky, Laurence A.; Dowbenko, Donald; Simonsen, Christian; Berman, Phillip W.
 CS Dep. Vaccine Dev., Genentech, Inc.
 LO South San Francisco, CA 94080, USA
 SO Mod. Approaches Vaccines: Mol. Chem. Basis Virus Virulence Immunogenicity, [Pap. Conf.], Meeting Date 1983, 189-94. Edited by: Chanock, Robert M.; Lerner, Richard Alan. Cold Spring Harbor Lab.: Cold Spring Harbor, N. Y.
 SC 16-6 (Fermentation and Bioindustrial Chemistry)
 SX 3, 63
 DT C
 CO 52CRA4
 PY 1984
 LA Eng

L20 ANSWER 12 OF 146

AN CA101(15):124127v
 TI Construction of live recombinant vaccines using genetically engineered poxviruses
 AU Paoletti, Enzo; Panicali, Dennis; Lipinkas, Bernard R.; Mercer, Susan; Wright, Marilyn; Samsonoff, Carol
 CS Cent. Lab. Res., New York State Dep. Health
 LO Albany, NY 12201, USA
 SO Mod. Approaches Vaccines: Mol. Chem. Basis Virus Virulence Immunogenicity, [Pap. Conf.], Meeting Date 1983, 295-9. Edited by: Chanock, Robert M.; Lerner, Richard Alan. Cold Spring Harbor Lab.: Cold Spring Harbor, N. Y.
 SC 3-4 (Biochemical Genetics)
 SX 15, 63
 DT C
 CO 52CRA4
 PY 1984
 LA Eng

L20 ANSWER 13 OF 146

AN CA101(15):124052s
 TI Evolution of haptoglobin: comparison of complementary DNA encoding Hp.alpha.1S and Hp.alpha.2FS
 AU Brune, Jill L.; Yang, Funmei; Barnett, Don R.; Bowman, Barbara H.
 CS Health Sci. Cent., Univ. Texas
 LO San Antonio, TX 78284, USA
 SO Nucleic Acids Res., 12(11), 4531-8
 SC 3-3 (Biochemical Genetics)
 SX 13
 DT J
 CO NARHAD
 IS 0305-1048
 PY 1984
 LA Eng

L20 ANSWER 14 OF 146

AN CA101(13):108577m
 TI Characterization of influenza virus glycoproteins expressed from



AM 27 014785

cloned cDNAs in prokaryotic and eukaryotic cells
 AU Nayak, Debi P.; Davis, Alan R.; Ueda, Masahiro; Bos, Timothy J.;
 Sivasubramanian, Natarajan
 CS Sch. Med., UCLA
 LO Los Angeles, CA 90024, USA
 SO Mod. Approaches Vaccines: Mol. Chem. Basis Virus Virulence
 Immunogenicity, [Pap. Conf.], Meeting Date 1983, 165-72. Edited by:
 Chanock, Robert M.; Lerner, Richard Alan. Cold Spring Harbor Lab.:
 Cold Spring Harbor, N. Y.
 SC 15-D (Immunochemistry)
 DT C
 CO 52CRA4
 PY 1984
 LA Eng

L20 ANSWER 15 OF 146

AN CA101(13):104538b
 TI Conversion of a secretory protein into a transmembrane protein
 results in its transport to the Golgi complex but not to the cell
 surface
 AU Guan, Jun Lin; Rose, John K.
 CS Mol. Biol. Virol. Lab., Salk Inst.
 LO San Diego, CA 92138, USA
 SO Cell (Cambridge, Mass.), 37(3), 779-87
 SC 2-5 (Mammalian Hormones)
 SX 3, 6
 DT J
 CO CELLB5
 IS 0092-8674
 PY 1984
 LA Eng

L20 ANSWER 16 OF 146

AN CA101(11):87038u
 TI Acquisition of host cell genetic information by avian sarcoma virus
 rescued from rat cells transformed by B77 virus
 AU Kotler, M.; Salmon, Sarah; Olshevsky, U.
 CS Hadassah Med. Sch., Hebrew Univ.
 LO Jerusalem, Israel
 SO Arch. Virol., 80(4), 249-64
 SC 10-1 (Microbial Biochemistry)
 DT J
 CO ARVIDF
 IS 0304-8608
 PY 1984
 LA Eng

L20 ANSWER 17 OF 146

AN CA101(11):84730c
 TI Sequence homology between human and animal rotavirus
 serotype-specific glycoproteins
 AU Dyall-Smith, Michael L.; Holmes, Ian H.
 CS Dep. Microbiol., Univ. Melbourne
 LO Parkville 3052, Australia
 SO Nucleic Acids Res., 12(9), 3973-82
 SC 3-2 (Biochemical Genetics)
 DT J

AM 27 014786

AM-ITC 00454722

CD NARHAD
IS 0305-1048
PY 1984
LA Eng

L20 ANSWER 18 OF 146

AN CA101(9):69206t
TI Characterization of two recombination-complementation groups of Uukuniemi virus temperature-sensitive mutants
AU Gahmberg, Nina
CS Recombinant DNA Lab., Univ. Helsinki
LO Helsinki 00380/38, Finland
SO J. Gen. Virol., 65(6), 1079-90
SC 10-4 (Microbial Biochemistry)
DT J
CO JGVIAY
IS 0022-1317
PY 1984
LA Eng

L20 ANSWER 19 OF 146

AN CA101(9):66892c
TI Fluidity of a retrovirus genome
AU Clark, Stephen P.; Mak, Tak W.
CS Ontario Cancer Inst., Univ. Toronto
LO Toronto, ON M4X 1K9, Can.
SO J. Virol., 50(3), 759-65
SC 3-2 (Biochemical Genetics)
DT J
CO JOVIAM
IS 0022-538X
PY 1984
LA Eng

L20 ANSWER 20 OF 146

AN CA101(7):52947n
TI Method to map antigenic determinants recognized by monoclonal antibodies: localization of a determinant of virus neutralization on the feline leukemia virus envelope protein gp70
AU Nunberg, J. H.; Rodgers, G.; Gilbert, J. H.; Snead, R. M.
CS Dep. Mol. Biol. Res., Cetus Corp.
LO Emeryville, CA 94608, USA
SO Proc. Natl. Acad. Sci. U. S. A., 81(12), 3675-9
SC 15-1 (Immunochemistry)
DT J
CO PNASA6
IS 0027-8424
PY 1984
LA Eng

L20 ANSWER 21 OF 146

AN CA101(7):51539u
TI Antigenic variation in Trypanosoma brucei analyzed by electrophoretic separation of chromosome-sized DNA molecules
AU Van der Ploeg, Lex H. T.; Schwartz, David C.; Cantor, Charles R.; Borst, Piet

AM 27 014787

AM-ITC 00454723

CS Dep. Mol. Biol., Netherlands Cancer Inst.
LO Amsterdam 1066 CX, Neth.
SO Cell (Cambridge, Mass.), 37(1), 77-84
SC 10-4 (Microbial Biochemistry)
DT J
CO CELLS5
IS 0092-8674
PY 1984
LA Eng

L20 ANSWER 22 OF 146

AN CA101(5):34033g
TI Duplication within the haptoglobin Hp2 gene
AU Maeda, Nobuyo; Yang, Funmei; Barnett, Don R.; Bowman, Barbara H.;
Smithies, Oliver
CS Lab. Genet., Univ. Wisconsin
LO Madison, WI 53706, USA
SO Nature (London), 309(5964), 131-5
SC 3-3 (Biochemical Genetics)
SX 13
DT J
CO NATUAS
IS 0028-0836
PY 1984
LA Eng

L20 ANSWER 23 OF 146

AN CA101(5):34005z
TI Two mechanisms of expression of a predominant variant antigen gene of
Trypanosoma brucei
AU Myler, Peter; Nelson, Richard G.; Agabian, Nina; Stuart, Kenneth
CS Issaquah Health Res. Inst.
LO Issaquah, WA 98027, USA
SO Nature (London), 309(5965), 282-4
SC 3-2 (Biochemical Genetics)
SX 15
DT J
CO NATUAS
IS 0028-0836
PY 1984
LA Eng

L20 ANSWER 24 OF 146

AN CA101(3):19864k
TI Analytical and animal [test methods]
AU Maelicke, Alfred
LO Fed. Rep. Ger.
SO Nachr. Chem., Tech. Lab., 32(4), 295-7
SC 9-D (Biochemical Methods)
DT J
CO NCTLDI
IS 0341-5163
PY 1984
LA Ger

L20 ANSWER 25 OF 146

AM 27 014788

AM-ITC 00454724

AN CA101(3):19716p
TI Nucleotide sequence of 3-hydroxy-3-methyl-glutaryl coenzyme A
reductase, a glycoprotein of endoplasmic reticulum
AU Chin, Daniel J.; Gil, Gregorio; Russell, David W.; Liscum, Laura;
Luskey, Kenneth L.; Basu, Sandip K.; Okayama, Hiroto; Berg, Paul;
Goldstein, Joseph L.; Brown, Michael S.
CS Southwest. Med. Sch., Univ. Texas
LO Dallas, TX 75235, USA
SO Nature (London), 308(5960), 613-17
SC 7-5 (Enzymes)
.SX 3
DT J
CO NATUAS
IS 0028-0836
PY 1984
LA Eng

=>

AM 27 014739

AM-ITC 00454725

L26 ANSWER 11 OF 65

AN CA100(23):186652a
TI Molecular cloning of cDNAs from androgen-independent mRNA species of
DBA/2 mouse submaxillary glands
AU Windass, J. D.; Mullins, J. J.; Beecroft, L. J.; George, H.; Meacock,
P. A.; Williams, B. R. G.; Brammar, W. J.
CS Dep. Biochem., Univ. Leicester
LO Leicester LE1 7RH, UK
SO Nucleic Acids Res., 12(3), 1361-76
SC 3-4 (Biochemical Genetics)
SX 2, 13
DT J
CO NARHAD
IS 0305-1048
PY 1984
LA Eng

L26 ANSWER 12 OF 65

AN CA100(19):151950u
TI Isolation of cDNA clones encoding T cell-specific membrane-associated
proteins
AU Hedrick, Stephen M.; Cohen, David-I.; Nielsen, Ellen A.; Davis, Mark
M.
CS Lab. Immunol., NIAID
LO Bethesda, MD 20205, USA
SO Nature (London), 308(5955), 149-53
SC 3-4 (Biochemical Genetics)
SX 13
DT J
CO NATUAS
IS 0028-0836
PY 1984
LA Eng

L26 ANSWER 13 OF 65

AN CA100(13):97607x
TI Construction of live vaccines using genetically engineered
poxviruses: biological activity of vaccinia virus recombinants
expressing the hepatitis B virus surface antigen and the herpes
simplex virus glycoprotein D
AU Paoletti, Enzo; Lipinkas, Bernard R.; Samsonoff, Carol; Mercer,
Susan; Panicali, Dennis
CS Cent. Lab. Res., New York Dep. Health
LO Albany, NY 12201, USA
SO Proc. Natl. Acad. Sci. U. S. A., 81(1), 193-7
SC 3-4 (Biochemical Genetics)
SX 63
DT J
CO PNASA6
IS 0027-8424
PY 1984
LA Eng

L26 ANSWER 14 OF 65

AM 27 014790

AM-ITC 00454726

AN CA100(13):97592p
TI Molecular cloning of the temperature-inducible outer membrane protein
1 of Yersinia pseudotuberculosis
AU Boelin, Ingrid; Wolf-Watz, Hans
CS Dep. Microbiol., Natl. Def. Res. Inst.
LO Umea S-901 82, Swed.
SO Infect. Immun., 43(1), 72-8
SC 3-4 (Biochemical Genetics)
SX 10, 14
DT J
CO INFIBR
IS 0019-9567
PY 1984
LA Eng

L26 ANSWER 15 OF 65

AN CA100(9):62671m
TI Glycosylation and surface expression of the influenza virus
neuraminidase requires the N-terminal hydrophobic region
AU Markoff, L.; Lin, B. C.; Sveda, M. M.; Lai, C. J.
CS Lab. Infectious Dis., Natl. Inst. Allergy Infectious Dis.
LO Bethesda, MD 20205, USA
SO Mol. Cell. Biol., 4(1), 8-16
SC 3-2 (Biochemical Genetics)
SX 10
DT J
CO MCEBD4
IS 0270-7306
PY 1984
LA Eng

L26 ANSWER 16 OF 65

AN CA100(9):62647h
TI Clone bank of Nicotiana tabacum chloroplast DNA: mapping of the
alpha, beta and epsilon subunits of the ATPase coupling factor, the
large subunit of ribulose biphosphate carboxylase, and the 32-kDal
membrane protein
AU Fluhr, Robert; Fromm, Hillel; Edelman, Marvin
CS Dep. Plant Genet., Weizmann Inst. Sci.
LO Rehovot 76100, Israel
SO Gene, 25(2-3), 271-80
SC 3-2 (Biochemical Genetics)
SX 11
DT J
CO GENED6
IS 0378-1119
PY 1983
LA Eng

L26 ANSWER 17 OF 65

AN CA100(7):46277g
TI The control of variant surface antigen synthesis in trypanosomes
AU Borst, Piet; Bernardis, Andre; Van der Ploeg, Lex H. T.; Michels, Paul
A. M.; Liu, Alvin Y. C.; De Lange, Titia; Kooter, Jan M.
CS Nederlands Kanker Inst., Univ. Amsterdam
LO Amsterdam NL-1066-CX, Neth.



AM 27 014791

AM-ITC 00454727

SO Eur. J. Biochem., 137(3), 383-9
SC 3-3 (Biochemical Genetics)
SX 10, 15
DT J
CO EJBCAI
IS 0014-2956
PY 1983
LA Eng

L26 ANSWER 18 OF 65

AN CA100(7):46133g
TI Identification and characterization of genes for polypeptides of the thylakoid membrane
AU Herrmann, R. G.; Westhoff, P.; Alt, J.; Winter, P.; Tittgen, J.; Bisanz, C.; Sears, B. B.; Nelson, N.; Hurt, E.; et al.
CS Bot. Inst., Univ. Duesseldorf
LO Duesseldorf, Fed. Rep. Ger.
SO NATO Adv. Sci. Inst. Ser., Ser. A, 63(Struct. Funct. Plant Genomes), 143-53
SC 3-2 (Biochemical Genetics)
SX 11
DT J
CO NALSDJ
PY 1983
LA Eng

L26 ANSWER 19 OF 65

AN CA100(3):18714d
TI Cloning of SA11 rotavirus genes: gene structure and polypeptide assignment for the type-specific glycoprotein
AU Both, G. W.; Mattick, J.; Siegman, L.; Atkinson, P. H.; Weiss, S.; Bellamy, A. R.; Street, J. E.; Metcalf, P.
CS Mole. Cell. Biol. Unit, CSIRO
LO North Ryde 2113, Australia
SO Double-Stranded RNA Viruses, Proc. Int. Symp., 1st, Meeting Date 1982, 73-82. Edited by: Compans, Richard W.; Bishop, David H. L. Elsevier: New York, N. Y.
SC 3-4 (Biochemical Genetics)
DT C
CO SOLHA7
PY 1983
LA Eng

L26 ANSWER 20 OF 65

AN CA99(25):207346g
TI Isolation of cDNA clones specific for collagen IV and laminin from mouse teratocarcinoma cells
AU Wang, Sho Ya; Gudas, Lorraine J.
CS Div. Cancer Genet., Dana-Farber Cancer Inst.
LO Boston, MA 02115, USA
SO Proc. Natl. Acad. Sci. U. S. A., 80(19), 5880-4
SC 3-4 (Biochemical Genetics)
SX 13, 14
DT J
CO PNASA6
IS 0027-8424
PY 1983

AM 27 014792

AM-ITC 00454728

LA Eng

L26 ANSWER 21 OF 65

AN CA99(23):188856e
TI Gene conversion as a mechanism for antigenic variation in trypanosomes
AU Pays, Etienne; Van Assel, Suzanne; Laurent, Monique; Darville, Martine; Vervoort, Tony; Van Meirvenne, Nestor; Steinert, Maurice
CS Dep. Biol. Mol., Univ. Libre Bruxelles
LO St. Genesius-Rode, Belg.
SO Cell (Cambridge, Mass.), 34(2), 371-81
SC 3-3 (Biochemical Genetics)
SX 10, 15
DT J
CO CELL85
IS 0092-8674
PY 1983
LA Eng

L26 ANSWER 22 OF 65

AN CA99(23):188855d
TI At least two transposed sequences are associated in the expression site of a surface antigen gene in different trypanosome clones
AU Pays, Etienne; Van Assel, Suzanne; Laurent, Monique; Dero, Brigitte; Michiels, Frank; Kronenberger, Peter; Matthyssens, Gaston; Van Meirvenne, Nestor; Le Ray, Dominique; Steinert, Maurice
CS Dep. Biol. Mol., Univ. Libre Bruxelles
LO St. Genesius-Rode, Belg.
SO Cell (Cambridge, Mass.), 34(2), 359-69
SC 3-3 (Biochemical Genetics)
DT J
CO CELL85
IS 0092-8674
PY 1983
LA Eng

L26 ANSWER 23 OF 65

AN CA99(21):170625u
TI Modified vaccinia virus and its use
AU Paoletti, Enzo; Panicali, Dennis
CS Health Research, Inc.
LO USA
PI Eur. Pat. Appl. EP 83286 A2, 6 Jul 1983, 175 pp. Designated States: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
AI Appl. 82/402380, 23 Dec 1982; US Appl. 334456, 24 Dec 1981; US Appl. 446824, 8 Dec 1982
CL C12N15/00, C12N7700, A61K39/00, C12R1/91-, A61K39/145-, A61K39/245-, A61K39/285-, A61K39/29-
SC 3-4 (Biochemical Genetics)
SX 63
DT P
CO EPXXDW
PY 1983
LA Eng

L26 ANSWER 24 OF 65

AM 27 014793

AM-ITC 00454729

AN CA99(19):153192h
TI Expression of Semliki Forest virus proteins from cloned complementary DNA. I. The fusion activity of the spike glycoprotein
AU Kondor-Koch, Claudia; Burke, Brian; Garoff, Henrik
CS Eur. Mol. Biol. Lab.
LO Heidelberg 6900, Fed. Rep. Ger.
SO J. Cell Biol., 97(3), 644-51
SC 3-4 (Biochemical Genetics)
SX 10
DT J
CO JCLBA3
IS 0021-9525
PY 1983
LA Eng



L26 ANSWER 25 OF 65

AN CA99(15):116992y
TI Sequence analysis of two mutants of Sindbis virus defective in the intracellular transport of their glycoproteins
AU Arias, Carlos; Bell, John R.; Lenches, Edith M.; Strauss, Ellen G.; Strauss, James H.
CS Div. Biol., California Inst. Technol.
LO Pasadena, CA 91125, USA
SO J. Mol. Biol., 168(1), 87-102
SC 3-2 (Biochemical Genetics)
SX 10
DT J
CO JMOBAK
IS 0022-2836
PY 1983
LA Eng

L26 ANSWER 26 OF 65

AN CA99(13):100167x
TI Genesis of a new spleen focus-forming virus: possible role of MCF viruses
AU Barbieri-Weill, D.; Mathieu-Mahul, D.; Gay, F.; Robert-Lezanes, J.; Moreau-Gachelin, F.; Wendling, F.; Lacombe, C.; Casadevall, N.; Tambourin, P.; Larsen, C. J.
CS Inst. Gustave-Roussy
LO Villejuif 94800, Fr.
SO Virology, 128(1), 234-9
SC 3-2 (Biochemical Genetics)
SX 10, 14
DT J
CO VIRLAX
IS 0042-6822
PY 1983
LA Eng

L26 ANSWER 27 OF 65

AN CA99(9):65350c
TI Repetitive sequences scattered throughout the genome of Trypanosoma cruzi
AU Frasch, Alberto C. C.; Carrasco, Andres E.; Goijman, Silvia G.; Sanchez, Daniel O.
CS Inst. Quim. Biol., Fac. Med.

AM 27 014794

LO Buenos Aires, Argent.
SO Mol. Biochem. Parasitol., 8(3), 227-39
SC 3-4 (Biochemical Genetics)
DT J
CO MBIPDP
IS 0166-6851
PY 1983
LA Eng

L26 ANSWER 28 OF 65

AN CA99(9):65333z
TI Structure of three spliced mRNAs from region E3 of adenovirus type 2
AU Staalhandske, Per; Persson, Haakan; Perricaudet, Michel; Philipson, Lennart; Pettersson, Ulf
CS Biomed. Cent., Uppsala Univ.
LO Uppsala S-751 23, Swed.
SO Gene, 22(2-3), 157-65
SC 3-4 (Biochemical Genetics)
SX 10
DT J
CO GENED6
IS 0378-1119
PY 1983
LA Eng

L26 ANSWER 29 OF 65

AN CA99(3):17468a
TI Antics of the elusive trypanosome
AU Turner, Mervyn
CS Moltano Inst., Univ. Cambridge
LO Cambridge CB2 3EE, UK
SO Nature (London), 303(5914), 202-3
SC 3-3 (Biochemical Genetics)
SX 10, 15
DT J
CO NATUAS
IS 0028-0836
PY 1983
LA Eng

L26 ANSWER 30 OF 65

AN CA99(1):1206c
TI Nascent polypeptide chains exit the ribosome in the same relative position in both eukaryotes and prokaryotes
AU Rubenstein, John L. R.; Chappell, Thomas G.
CS Dep. Biochem., Stanford Univ.
LO Stanford, CA 94305, USA
SO J. Cell Biol., 96(5), 1464-70
SC 3-4 (Biochemical Genetics)
SX 6, 10
DT J
CO JCLBA3
IS 0021-9525
PY 1983
LA Eng

L26 ANSWER 31 OF 65

AM 27 014795

AM-ITC 00454731

AN CA98(21):174135m
TI Comparison of the cloned H-2Kbm1 variant gene with the H-2Kb gene shows a cluster of seven nucleotide differences
AU Schulze, Dan H.; Pease, Larry R.; Geier, Steven S.; Reyes, Antonio A.; Sarmiento, L. A.; Wallace, R. Bruce; Nathenson, Stanley G.
CS Dep. Microbiol. Immunol., Albert Einstein Coll. Med.
LO Bronx, NY 10461, USA
SO Proc. Natl. Acad. Sci. U. S. A., 80(7), 2007-11
SC 3-4 (Biochemical Genetics)
SX 13, 15
DT J
CO PNASA6
IS 0027-8424
PY 1983
LA Eng

L26 ANSWER 32 OF 65

AN CA98(21):174111a
TI Characterization of the herpes simplex virus type 1 glycoprotein D mRNA and expression of this protein in Xenopus oocytes
AU Watson, Roger J.; Colberg-Poley, Anamaris M.; Marcus-Sekura, Carol J.; Carter, Barrie J.; Enquist, Lynn W.
CS Mol. Genet., Inc.
LO Minnetonka, MN 55343, USA
SO Nucleic Acids Res., 11(5), 1507-22
SC 3-4 (Biochemical Genetics)
SX 6
DT J
CO NARHAD
IS 0305-1048
PY 1983
LA Eng

L26 ANSWER 33 OF 65

AN CA98(21):174101x
TI Nucleotide sequence of a cDNA clone encoding the entire glycoprotein from the New Jersey serotype of vesicular stomatitis virus
AU Gallione, Carol J.; Rose, John K.
CS Mol. Biol. Virol. Lab., Salk Inst.
LO San Diego, CA 92138, USA
SO J. Virol., 46(1), 162-9
SC 3-4 (Biochemical Genetics)
SX 10
DT J
CO JOVIAM
IS 0022-538X
PY 1983
LA Eng

L26 ANSWER 34 OF 65

AN CA98(9):68390f
TI Analysis of red blood cell differentiation
AU Harrison, P. R.; Affara, N.; Goldfarb, P. S.; Kasturi, K.; Yang, Q. S.; Lyons, A.; O'Prey, J.; Fleming, J.; Black, E.; Nichols, R.
CS Beatson Inst. Cancer Res.
LO Glasgow G61 1BD, UK

AM 27 014796

AM-ITC 00454732

SO Adv. Exp. Med. Biol., 158(Stab. Switching Cell. Differ.), 81-8
 SC 9-10 (Biochemical Methods)
 SX 13, 15
 DT J
 CO AEMBAP
 IS 0065-2598
 PY 1982
 LA Eng

L26 ANSWER 35 OF 65

AN CA98(9):66407t
 TI Use of Trypanosoma equiperdum infected rabbits as a source of splenic mRNA; construction of cDNA clones and identification of a rabbit .mu. heavy chain clone
 AU Bernstein, Kenneth E.; Pavirani, Andrea; Alexander, Cornelius; Jacobsen, Frederick; Fitzmaurice, Leona; Mage, Rose
 CS Lab. Immunol., Natl. Inst. Allergy Infect. Dis.
 LO Bethesda, MD 20205, USA
 SO Mol. Immunol., 20(1), 89-99
 SC 3-4 (Biochemical Genetics)
 SX 13, 14, 15
 DT J
 CO MOIMD5
 IS 0161-5890
 PY 1983
 LA Eng

=> dis 126 36-60 bib

L26 ANSWER 36 OF 65

AN CA98(7):47950y
 TI Spliced and unspliced messenger RNAs synthesized from cloned influenza virus M DNA in an SV40 vector: expression of the influenza virus membrane protein (M1)
 AU Lamb, Robert A.; Lai, Ching Juh
 CS Rockefeller Univ.
 LO New York, NY 10021, USA
 SO Virology, 123(2), 237-56
 SC 3-4 (Biochemical Genetics)
 DT J
 CO VIRLAX
 IS 0042-6822
 PY 1982
 LA Eng

L26 ANSWER 37 OF 65

AN CA98(5):28811n
 TI Genetic analysis of temperature-sensitive mutants which define the gene for the major herpes simplex virus type 1 DNA-binding protein
 AU Weller, Sandra K.; Lee, Kathryn J.; Sabourin, Dennis J.; Schaffer, Priscilla A.
 CS Lab. Tumor Virus Genet., Sidney Farber Cancer Inst.
 LO Boston, MA 02115, USA
 SO J. Virol., 45(1), 354-66
 SC 3-2 (Biochemical Genetics)
 SX 10

AM 27 014797

AM-ITC 00454733

DT J
CO JOVIAM
IS 0022-538X
PY 1983
LA Eng

L26 ANSWER 38 OF 65

AN CA98(5):28750s
TI Nucleotide sequences of herpes simplex virus type 1 (HSV-1) affecting virus entry, cell fusion, and production of glycoprotein gB (VP7)
AU DeLuca, Neal; Bzik, David J.; Bond, Vincent C.; Person, Stanley; Snipes, Wallace
CS Mol. Cell Biol. Prog., Pennsylvania State Univ.
LO University Park, PA 16802, USA
SO Virology, 122(2), 411-23
SC 3-2 (Biochemical Genetics)
SX 10
DT J
CO VIRLAX
IS 0042-6822
PY 1982
LA Eng

L26 ANSWER 39 OF 65

AN CA98(3):12358j
TI Molecular cloning of biologically active proviral DNA of the anemia-inducing strain of spleen focus-forming virus
AU Kaminchik, Joseph; Hankins, W. David; Ruscetti, Sandra K.; Linemeyer, David L.; Scolnick, Edward M.
CS Tumor Virus Genet. Lab., Natl. Cancer Inst.
LO Bethesda, MD 20205, USA
SO J. Virol., 44(3), 922-31
SC 3-4 (Biochemical Genetics)
SX 10
DT J
CO JOVIAM
IS 0022-538X
PY 1982
LA Eng

L26 ANSWER 40 OF 65

AN CA98(3):12326x
TI Expression from cloned cDNA of cell-surface secreted forms of the glycoprotein of vesicular stomatitis virus in eukaryotic cells
AU Rose, John K.; Bergmann, John E.
CS Tumor Virol. Lab., Salk Inst.
LO San Diego, CA 92138, USA
SO Cell (Cambridge, Mass.), 30(3), 753-62
SC 3-4 (Biochemical Genetics)
DT J
CO CELLB5
IS 0092-8674
PY 1982
LA Eng

X

L26 ANSWER 41 OF 65

AM 27 014798

AN CA97(21):177069h
 TI Haptoglobin: the evolutionary product of duplication, unequal crossing over, and point mutation
 AU Bowman, Barbara H.; Kurosky, Alexander
 CS Med. Branch, Univ. Texas
 LO Galveston, TX, USA
 SO Adv. Hum. Genet., 12, 189-261, 453-4
 SC 6-0 (General Biochemistry)
 SX 13
 DT J
 CO ADHGA8
 IS 0065-275X
 PY 1982
 LA Eng

L26 ANSWER 42 OF 65

AN CA97(15):123700p
 TI The isolation and characterization of mutants of herpes simplex virus type 1 that induce cell fusion
 AU Bond, Vincent C.; Person, Stanley; Warner, Susan C.
 CS 618 Mueller Lab., Pennsylvania State Univ.
 LO University Park, PA 16802, USA
 SO J. Gen. Virol., 61(2), 245-54
 SC 10-4 (Microbial Biochemistry)
 DT J
 CO JGVIAY
 IS 0022-1317
 PY 1982
 LA Eng

L26 ANSWER 43 OF 65

AN CA97(11):86276g
 TI Sequence of the long terminal repeat and adjacent segments of the endogenous avian virus Rous-associated virus 0
 AU Hughes, Stephen H.
 CS Cold Spring Harbor Lab.
 LO Cold Spring Harbor, NY 11724, USA
 SO J. Virol., 43(1), 191-200
 SC 3-4 (Biochemical Genetics)
 DT J
 CO JGVIAM
 IS 0022-538X
 PY 1982
 LA Eng

L26 ANSWER 44 OF 65

AN CA97(7):50587v
 TI Envelope gene sequences which encode the gp52 protein of spleen focus-forming virus are required for the induction of erythroid cell proliferation
 AU Linemeyer, David L.; Menke, John G.; Ruscetti, Sandra K.; Evans, Leonard H.; Scolnick, Edward M.
 CS Lab. Tumor Virus Genet., Natl. Cancer Inst.
 LO Bethesda, MD 20205, USA
 SO J. Virol., 43(1), 223-33
 SC 3-4 (Biochemical Genetics)
 SX 14

AM 27 014799

AM-ITC 00454735

DT J
CO JOVIAM
IS 0022-538X
PY 1982
LA Eng

L26 ANSWER 45 OF 65

AN CA97(3):18348g
TI Nucleotide sequence of the Akv env gene
AU Lenz, Jack; Crowther, Robert; Straceski, Anthony; Haseltine, William
CS Sidney Farber Cancer Inst., Harvard Med. Sch.
LO Boston, MA 02115, USA
SO J. Virol., 42(2), 519-29
SC 3-4 (Biochemical Genetics)
DT J
CO JOVIAM
IS 0022-538X
PY 1982
LA Eng

L26 ANSWER 46 OF 65

AN CA97(1):1569g
TI Cloning and characterization of DNA complementary to the measles virus mRNA encoding hemagglutinin and matrix protein
AU Rozenblatt, Shmuel; Gesang, Cila; Lavie, Vered; Neumann, Felicia S.
CS Dep. Virol., Weizmann Inst. Sci.
LO Rehovot, Israel
SO J. Virol., 42(3), 790-7
SC 3-4 (Biochemical Genetics)
DT J
CO JOVIAM
IS 0022-538X
PY 1982
LA Eng

L26 ANSWER 47 OF 65

AN CA97(1):1443m
TI The nucleotide sequence coding for major outer membrane protein OmpA of Shigella dysenteriae
AU Braun, Gabi; Cole, Stewart T.
CS Max-Planck-Inst. Biol.
LO Tuebingen D-7400, Fed. Rep. Ger.
SO Nucleic Acids Res., 10(7), 2367-78
SC 3-2 (Biochemical Genetics)
DT J
CO NARHAD
IS 0305-1048
PY 1982
LA Eng

L26 ANSWER 48 OF 65

AN CA96(25):212568y
TI Cell membrane proteins
AU Yokoyama, Kazushige; Tsuji, Tsutomu; Osawa, Toshiaki
CS Coll. Pharma, Tokyo Univ.
LO Tokyo, Japan

AM 27 014800

AM-ITC 00454736

SO Tanpakushitsu Kakusan Koso, 27(6), 985-1004
SC 6-0 (General Biochemistry)
SX 3, 15
DT J
CO TAKKAJ
IS 0039-9450
PY 1982
LA Japan

L26 ANSWER 49 OF 65

AN CA96(25):211780z
TI Differential expression of the members of the discoidin I multigene family during growth and development of Dictyostelium discoideum
AU Devine, Joan M.; Tsang, Adrian S.; Williams, Jeffrey G.
CS Mill Hill Lab., Imp. Cancer Res. Fund.
LO London NW7 1AD, UK
SO Cell (Cambridge, Mass.), 28(4), 793-800
SC 3-3 (Biochemical Genetics)
SX 10
DT J
CO CELLB5
IS 0092-8674
PY 1982
LA Eng

L26 ANSWER 50 OF 65

AN CA96(21):175147n
TI Structure of the glycoprotein gene in rabies virus
AU Anilionis Algis; Wunner, William H.; Curtis, Peter J.
CS Wistar Inst. Anat. Biol.
LO Philadelphia, PA 19104, USA
SO Nature (London), 294(5838), 275-8
SC 3-2 (Biochemical Genetics)
DT J
CO NATUAS
IS 0028-0836
PY 1981
LA Eng

L26 ANSWER 51 OF 65

AN CA96(11):80751r
TI Cloned DNA sequences complementary to mRNAs encoding precursors to the small subunit of ribulose-1,5-bisphosphate carboxylase and a chlorophyll a/b binding polypeptide
AU Broglie, Richard; Bellemare, Guy; Bartlett, Sue G.; Chua, Nam Hai; Cashmore, Anthony R.
CS Rockefeller Univ.
LO New York, NY 10021, USA
SO Proc. Natl. Acad. Sci. U. S. A., 78(12), 7304-8
SC 3-4 (Biochemical Genetics)
SX 11
DT J
CO PNASA6
IS 0027-8424
PY 1981
LA Eng

AM 27 014801

AM-ITC 00454737

L26 ANSWER 52 OF 65

AN CA96(5):29346k
TI Genetics of the Bunyamwera complex
AU Iroegbu, C. U.; Pringle, Craig R.
CS MRC Virol. Unit, Inst. Virol.
LO Glasgow G11 5JR, UK
SO Dev. Cell Biol. (Amsterdam), 7(Replication Negat. Strand Viruses),
159-65
SC 3-2 (Biochemical Genetics)
SX 10
DT J
CO DCBIDD
IS 0165-2265
PY 1981
LA Eng

L26 ANSWER 53 OF 65

AN CA96(5):29327e
TI Amino acid composition and terminal sequence analysis of the rabies
virus glycoprotein: identification of the reading frame on the cDNA
sequence
AU Lai, C. Y.; Dietzschold, B.
CS Roche Inst. Mol. Biol.
LO Nutley, NJ 07110, USA
SO Biochem. Biophys. Res. Commun., 103(2), 536-42
SC 3-2 (Biochemical Genetics)
SX 6
DT J
CO BBBCA9
IS 0006-291X
PY 1981
LA Eng

L26 ANSWER 54 OF 65

AN CA95(19):164067q
TI Nucleotide sequences of the mRNA's encoding the vesicular stomatitis
virus G and M proteins determined from cDNA clones containing the
complete coding regions
AU Rose, John K.; Gallione, Carol J.
CS Tumor Virol. Lab., Salk Inst.
LO San Diego, CA 92138, USA
SO J. Virol., 39(2), 519-28
SC 6-2 (General Biochemistry)
DT J
CO JOVIAM
IS 0022-538X
PY 1981
LA Eng

L26 ANSWER 55 OF 65

AN CA95(13):111559v
TI Expression of the syncytial (syn) phenotype in HSV-1, strain KOS:
genetic and phenotypic studies of mutants in two syn loci
AU Little, Sheila P.; Schaffer, Priscilla A.
CS Sidney Farber Cancer Inst., Harvard Med. Sch.
LO Boston, MA 02115, USA

AM 27 014802

AM-ITC 00454738

SO Virology, 112(2), 686-702
SC 10-4 (Microbial Biochemistry)
DT J
CO VIRLAX
IS 0042-6822
PY 1981
LA Eng

L26 ANSWER 56 OF 65

AN CA94(21):170909m
TI Biological activity of the spleen focus-forming virus is encoded by a
molecularly cloned subgenomic fragment of spleen focus-forming virus
DNA
AU Linemeyer, David L.; Ruscetti, Sandra K.; Scolnick, Edward M.; Evans,
Leonard H.; Duesberg, Peter H.
CS Lab. Tumor Virus Genet., Natl. Cancer Inst.
LO Bethesda, MD 20205, USA
SO Proc. Natl. Acad. Sci. U. S. A., 78(3), 1401-5
SC 10-4 (Microbial Biochemistry)
DT J
CO PNASA6
IS 0027-8424
PY 1981
LA Eng

L26 ANSWER 57 OF 65

AN CA94(17):134323g
TI Nucleotide sequence of cDNA coding for Semliki Forest virus membrane
glycoproteins
AU Garoff, Henrik; Frischauf, Anne Marie; Simons, Kai; Lehnach, Hans;
Delius, Hajo
CS Eur. Mol. Biol. Lab.
LO Heidelberg 6900, Fed. Rep. Ger.
SO Nature (London), 288(5788), 236-41
SC 6-2 (General Biochemistry)
DT J
CO NATUAS
IS 0028-0836
PY 1980
LA Eng

L26 ANSWER 58 OF 65

AN CA94(15):117632q
TI Characterization of molecularly cloned spleen focus-forming virus DNA
AU Linemeyer, David L.; Ruscetti, Sandra K.; Menke, John G.; Scolnick,
Edward M.
CS Natl. Cancer Inst.
LO Bethesda, MD 20205, USA
SO ICN-UCLA Symp. Mol. Cell. Biol., 18(Anim. Virus Genet.), 473-82
SC 10-4 (Microbial Biochemistry)
DT J
CO IUSMDJ
IS 0097-9023
PY 1980
LA Eng

L26 ANSWER 59 OF 65

AM 27 014803

AM-ITC 00454739

AN CA93(7):63766v
TI Reverse transcription of thyroglobulin mRNA into a 11,000-base full-length cDNA
AU De Martynoff, G.; Vassart, G.
CS Fac. Med., Univ. Libre Bruxelles
LO Brussels B-1000, Belg.
SO Arch. Int. Physiol. Biochim., 88(2), 876-877
SC 6-1 (General Biochemistry)
DT J
CO AIPBAY
IS 0003-9799
PY 1980
LA Eng

L26 ANSWER 60 OF 65

AN CA93(5):41107d
TI Intertypic recombinants of herpes simplex viruses
AU Halliburton, I. W.
CS Dep. Microbiol., Univ. Leeds
LO Leeds LS2 9JT, Engl.
SO J. Gen. Virol., 48(1), 1-23
SC 10-D (Microbial Biochemistry)
DT J
CO JGVIAY
IS 0022-1317
PY 1980
LA Eng

=> dis 126 61-65 bib

L26 ANSWER 61 OF 65

AN CA92(23):194270f
TI Evidence from recombinant bunyavirus studies that the M RNA gene products elicit neutralizing antibodies
AU Gentsch, Jon R.; Rozhon, Edward J.; Klimas, Richard A.; El Said, Laila H.; Shope, Robert E.; Bishop, David H. L.
CS Med. Cent., Univ. Alabama
LO Birmingham, AL 35294, USA
SO Virology, 102(1), 190-204
SC 10-4 (Microbial Biochemistry)
SX 15
DT J
CO VIRLAX
IS 0042-6822
PY 1980
LA Eng

L26 ANSWER 62 OF 65

AN CA92(19):160384f
TI Evolution of pandemic influenza virus strains
AU Scholtissek, C.
CS Inst. Virol., Justus-Liebig-Univ. Giessen
LO Giessen 6300, Fed. Rep. Ger.
SO Philos. Trans. R. Soc. London, Ser. B, 288(1029), 307-12
SC 10-4 (Microbial Biochemistry)

AM 27 014804

AM-ITC 00454740

DT J
CO PTRBAE
IS 0080-4622
PY 1980
LA Eng

L26 ANSWER 63 OF 65

AN CA91(17):137021f
TI Correlation of pathogenicity and gene constellation of influenza A viruses. III. Non-pathogenic recombinants derived from highly pathogenic parent strains

AU Rott, R.; Orlich, M.; Scholtissek, C.
CS Inst. Virol., Justus-Liebig-Univ.
LO Giessen, Fed. Rep. Ger.
SO J. Gen. Virol., 44(2), 471-7
SC 10-4 (Microbial Biochemistry)
SX 12

DT J
CO JGVIAY
IS 0022-1317
PY 1979
LA Eng

L26 ANSWER 64 OF 65

AN CA88(13):85656h
TI Glycoproteins of avian tumor virus recombinants: evidence for intragenic crossing-over

AU Galehouse, Donna M.; Duesberg, Peter H.
CS Dep. Mol. Biol., Univ. California
LO Berkeley, Calif., USA
SO J. Virol., 25(1), 86-96
SC 10-1 (Microbial Biochemistry)

DT J
CO JOVIAM
IS 0022-538X
PY 1978
LA Eng

L26 ANSWER 65 OF 65

AN CA87(9):65182b
TI Differences in the glycoproteins of avian tumor virus recombinants: evidence for intragenic crossing over

AU Galehouse, D. M.; Duesberg, Peter H.
CS Dep. Mol. Biol., Univ. California
LO Berkeley, Calif., USA
SO ICN-UCLA Symp. Mol. Cell. Biol., 4(Anim. Virol.), 227-36
SC 10-4 (Microbial Biochemistry)

DT J
CO IUSMDJ
PY 1976
LA Eng

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AM 27 014805

AM-ITC 00454741