Doc. 1165 Att. 10

Page 1 of 40

Case 1:05-cv-12237-WGY Document 1165-11

Filed 09/26/2007

EXHIBIT I

32/3/1 05830031 86131031 Recombinant vaccinia viruses as new live vaccines. Smith GL; Mackett M; Moss B Biotechnol Genet Eng Rev 1984, 2 p383-407, ISSN 0264-8725 Journal Code: ADG 32/3/2 05810567 86111567 Interleukin-2 receptor expression in retrovirus associated adult I-cell leukemia. Waldmann TA; Leonard WJ; Depper JM; Kronke M; Goldman CK; Oh T; Greene WC Int Symp Princess Takamatsu Cancer Res Fund 1984, 15 p259-68, Journal Code: HHI 32/3/3 05581413 85197413 Structure and expression of androgen-regulated genes in mouse kidney. Watson CS; Salomon D; Catterall JF Anh NY Acad Sci 1984, 438 p101-14, ISSN C077-8923 Journal Code: 5NM Contract/Grant No.: HD-13541 32/3/4 05566896 85182896 Cloned human teratoma cells differentiate into neuron-like cells and other cell types in retinoic acid. Thompson S; Stern PL; Webb M; Walsh FS; Engstrom W; Evans EP; Shi WK; Hopkins B; Graham CF J Cell Sci Dec 1984, 72 p37-64, ISSN 0021-9533 Journal Code: HNK 32/3/5 05540173 85156173 T-cell-lymphokines and the production and function of accessory cells. Schrader JW; Clark-Lewis I; Wong GH Immunobiology _ Dec 1984, 168 (3-5) p425-40, ISSN 0171-2985 Journal Code: GH3 32/3/6 05507282 85123282 [Experimental study of cancer metastasis] Etude experimentale des metastases des cancers. Poupon MF; Becker M; Pauwels C; Moczar E; Korach S Bull Cancer (Paris) 1984, 71 (5) p453-63, ISSN 0007-4551 Journal Code: BDZ 32/3/7 05484663 85100663 Reichert's membrane as a model for studying the biosynthesis and assembly of basement membrane components.

Hogan BL; Barlow DP; Kurkinen M

32/3/8 05470257 85086257 Characterization of a steroid hormone receptor gene and mRNA in wild-type and mutant cells. Miesfeld R; Okret S; Wikstrom AC; Wrange O; Gustafsson JA; Yamamoto KR Nature Dec 20-1985 Jan 2 1984, 312 (5996) p779-81, ISSN 0028-0836 Journal Code: NSC 32/3/9 05470244 85086244 Human tumour necrosis factor: precursor structure, expression and homology to lymphotoxin. Pennica D; Nedwin GE; Hayflick JS; Seeburg PH; Derynck R; Palladino MA; Kohr WJ; Aggarwal BB; Goeddel DV Nature Dec 20-1985 Jan 2 1984, 312 (5996) p724-9, ISSN 0028-0836 Journal Code: NSC 32/3/10 85076570 05460570 Expression of a human alpha-globin/fibronectin gene hybrid generates two mRNAs by alternative splicing. Vibe-Pedersen K; Kornblihtt AR; Baralle FE EMBO J Nov 1984, 3 (11) p2511-6, ISSN 0261-4189 Journal Code: EMB 32/3/11 05458506 85074506 Expression of the transferrin receptor on murine peritor at macrophages is modulated by in vitro treatment with interferon gamma. Hamilton TA; Gray PW; Adams DO Cell Immunol Dec 1984, 89 (2) p478-38, ISSN 0008-8749 Journal Code: CO9 Contract/Grant No.: CA29589; CA16784; ES02922 32/3/12 05456628 85072628 [Immunochemotherapy of buman glionas transplanted into nude mice] Hori T; Adachi S; Anno Y; Numata H; Hokama Y; Munaoka K; Matautani M; Matsui T No To Shinkei | Sep 1984, | 36 (9) p381-8, | ISSN 0006-8969 Journal Code: AR5 32/3/13 85070969 05454969 Looking for epilepsy genes. White R Ann Neurol 1984, 16 Suppl pS12-7, ISSN 0364-5134 Journal Code: 6AE

Nucleotide sequences of the human and mouse atrial natriuretic factor

32/3/14 05449766

genes.

85065766

Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/2007 Page 4 of 40 Seidman CE; Bloch KD; Klein KA; Smith JA; Seidman JG Dec 7 1984, 226 (4679) p1206-9, ISSN 0036-8075 Journal Code: UJ7 Contract/Grant No.: HL-070208; AI-18436 32/3/15 05447780 85063780 Characterization of epidermal growth factor receptor gene expression in malignant and normal human cell lines. Xu YH; Richert N; Ito S; Merlino GT; Pastan I Proc Natl Acad Sci USA Dec 1984, 81 (23) p7308-12, ISSN 0027-8424 Journal Code: PV3 32/3/16 05447758 85063758 Protection from rabies by a vaccinia virus recombinant containing the rabies virus glycoprotein gene. Wiktor IJ; Macfarlan RI; Reagan KJ; Dietzschold B; Curtis PJ; Wunner WH; Kieny MP; Lathe R; Lecocq JP; Mackett M; et al Proc Natl Acad Sci USA Nov 1984, 81 (22) p7194-8, ISSN 0027-8424 Journal Code: PV3 Contract/Grant No.: AI-09706; AI-18883 32/3/17 05445505 85061505 Expression of rabies virus glycoprotein from a recombinant vaccinia virus. Kieny MP; Lathe R; Drillien R; Spehner D; Skory S; Schmill D; Wiktor T; Koprowski H; Lecocq JP Nature Nov 8-14 1984, 312 (5990) p163-6, ISSN 0028-0836 Journal Code: NSC Contract/Grant No.: AI-09706 32/3/18 05440508 85056508 Purification of recombinant glycosylated human gamma interferon expressed in transformed Chinese hamster ovary cells. Devos R; Opsomer C; Scahill SJ; Van der Heyden J; Fiers W J Interferon Res Fall 1984, 4 (4) p461-8, ISSN 0197-8357 Journal Code: IJI 32/3/19 05439131 85055131 Mutations of the Rous sarcoma virus env gene that affect the transport and subcellular location of the glycoprotein products. Wills JW; Srinivas RV; Hunter E J Cell Biol Dec 1984, 99 (6) 2011-23, ISSN 0021-9525 Journal Code: HMV Contract/Grant No.: CA-29884; CA-07396; CA-00685 32/3/20 05435302 85051302 Sequencing of laminin 8 chain cDNAs reveals C-terminal regions of coiled-coil alpha-helix.

Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/2007 Page 5 of 40 Barlow DP; Green NM; Kurkinen M; Hogan BL EMBO J Oct 1984, 3 (10) p2355-62, ISSN 0261-4189 Journal Code: EMB 32/3/21 05430503 85046503 Partial cDNA sequence of the gamma subunit of transducin. Van Dop C; Medynski D; Sullivan K; Wu AM; Fung BK; Bourne HR Biochem Biophys Res Commun Oct 15 1984, 124 (1) p250-5, ISSN 0006-291X Journal Code: 9Y8 Contract/Grant No.: GM-27800; GM-28310 32/3/22 05430483 85046483 Isolation of an evolutionarily conserved epidermal growth factor receptor cDNA from human A431 carcinoma cells. Simmen FA; Gope ML; Schulz TZ; Wright DA; Carpenter G; O'Malley BW Biochem Biophys Res Commun Oct 15 1984, 124 (1) p125-32, ISSN Contract/Grant No.: RR-05425; CA 24071; CA 16672 32/3/23 05422581 85038581 Synthesis and glycosylation of the common alpha subunit of human glycoprotein hormones in mouse cells. Ramabhadran TV; Reitz BA; Tiemeier DC Proc Natl Acad Sci USA Nov 1984, 81 (21) ρ6701-5, ISSN 0027-8424 Journal Code: PV3 32/3/24 05420635 85036635 A third rearranged and expressed gene in a clone of cytotoxic I lymphocytes. Saito H; Kranz DM; Takagaki Y; Hayday AC; Eisen HN; Tonegawa S Nature Nov 1-7 1984, 312 (5989) p36-40, ISSN 0028-0836 Journal Code: NSC Contract/Grant No.: CA-28900-04; CA-28900; CA-14051 32/3/25 05420634 85036634 A third type of murine T-cell receptor gene. Chien Y; Becker DM; Lindsten T; Okamura M; Cohen DI; Davis MM Nature Nov 1-7 1984, 312 (5989) p31-5, ISSN 0028-0836 Journal Code: NSC 32/3/26 05417299 85033299 Biological properties of human tissue-type plasminogen activator obtained by expression of recombinant DNA in mammalian cells. Collen D; Stassen JM; Marafino BJ Jr; Builder S; De Cock F; Ogez J;

Tajiri D; Pennica D; Bennett WF; Salwa J; et al

Journal Code: JP3

J Pharmacol Exp Ther Oct 1984, 231 (1) p146-52, ISSN 0022-3565

32/3/28

05408898 85024898

The human LDL receptor: a cysteine-rich protein with multiple Alu sequences in its mRNA.

Yamamoto \top ; Davis CG; Brown MS; Schneider WJ; Casey ML; Goldstein JL; Russell DW

Cell Nov 1984, 39 (1) p27-38, ISSN 0092-8674 Journal Code: C04 Contract/Grant No.: HL20948; HL31346; HD11149; +

32/3/29

05408894 85024894

Antigenic variation in African trypanosomes by gene replacement or activation of alternate telomeres.

Myler PJ; Allison J; Agabian N; Stuart K

Cell Nov 1984, 39 (1) p203-11, ISSN 0092-8674 Journal Code: C04 Contract/Grant No.: AI17375; AI17309

32/3/30

05406629 85022629

Expression of the cDNA for alpha 1-acid glycoprotein, a rat plasma protein, in Escherichia ceii.

Birch HE; Nagashima M; Simpson RJ; Schreiber G

Biochem Int May 1983, 6 (5) p653-61, ISSN 0158-5231 Journal Code: 9Y9

32/3/31

05400660 85016660

Regulation of a hybrid gene by glucose and temperature in hamster

Attenello JW; Lee AS

Science Oct 12 1984, 226 (4671) p187-90, ISSN 0036-8075

Journal Code: UJ7

Contract/Grant No.: CA-27607

32/3/32

05398884 85014884

Thyrotropin controls transcription of the thyroglobulin gene.

Van Heuverswyn B; Streydio C; Brocas H; Refetoff S; Dumont J; Vassart G

Proc Natl Acad Sci USA Oct 1984, 81 (19) p5941-5, ISSN 8827-8424

Journal Code: PV3

Contract/Grant No.: AM 21732; AM 15070

32/3/33

05393844 85009844

Mapping and expression of a α uman cytomegalovirus major viral protein. Davis MG; Mar EC; Wu YM; Huang ES

05366655

NK recognition of target structures: is the transferrin receptor the NK target structure?

Newman RA; Warner JF; Dennert G

J Immunol Oct 1984, 133 (4) p1841-5, ISSN 0022-1767 Journal Code:

Contract/Grant No.: -CA- 15881; CA 19334; CA 34787

32/3/39

05359576 84283576

Factors affecting the growth and differentiation of haemopoietic cells in culture.

Stanley ER; Jubinsky PT

Clin Haematol Jun 1984, 13 (2) p329-48, ISSN 0308-2261

Journal Code: DE7-

Contract/Grant No.: CA 32551; CA 26504; GM 7288

Kornblihtt AR; Vibe-Pedersen K; Baralle FE

Nucleic Acids Res Jul 25 1984, 12 (14) p5853-68, ISSN 0305-1048 Journal Code: 08L

32/3/42

05344001 84268001

Evidence for translational regulation of herpes simplex virus type 1 gD expression.

Johnson DC; Spear PG

J Virol Aug 1984, 51 (2) p389-94, ISSN 0022-538X Journal Code: KCV Contract/Grant No.: CA 21776; CA 19264

32/3/43

05340655 84264655

Monoclonal antibodies against the human epidermal growth factor receptor from A431 cells. Isolation, characterization, and use in the purification of active epidermal growth factor receptor.

Parker PJ; Young S; Gullick WJ; Mayes EL; Bennett P; Water ield MD J Biol Chem Aug 10 1984, 259 (15) p9906-12, ISSN 0021-1258 Journal Code: HIV

32/3/44

05339971 84263971

Effects of low dose rate irradiation on plateau phase bone marrow stromal cells in vitro: demonstration of a new form of non-lethal, physiologic damage to support of hematopoietic stem cells.

Greenberger JS; Klassen V; Kase K; Shadduck RK; Sakakeeny MA

Int J Radiat Oncol Biol Phys Jul 1984, 10 (7) p1027-37, ISSN 0360-3016 Journal Code: G97

Contract/Grant No.: CA12662; CA25412

32/3/45

05339407 84263407

Tissue and gene specificity of mouse renin expression.

Field LJ; McGowan RA; Dickinson DP; Gross KW

Hypertension Jul-Aug 1984, 6 (4) p597-603, ISSN 0914-911X

Journal Code: GK7

Contract/Grant No.: GM 30248; SM 19521; GM 33159; +

32/3/46

05335336 84259336

Conversion of a secretory protein into a transmembrane protein results in its transport to the Golgi complex but not to the cell surface.

Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/2007 Page 10 of 40 Glucocorticoid receptors recognize DNA sequences in and around murine mammary tumour virus DNA. Geisse S; Scheidereit C; Westphal HM; Hynes NE; Groner B; Beato M EMBO J 1982, 1 (12) p1613-9, ISSN 0261-4189 Journal Code: EMB 32/3/54 05282531 84206531 The regulation of acetylcholine receptor expression in mammalian muscle. Merlie JP; Sebbane R; Gardner S; Olson E; Lindstrom J Cold Spring Harbor Symp Quant Biol 1983, 48 Pt 1 p135-46, ISSN 8091-7451 Journal Code: DMT 32/3/55 05281666 84205666 Gene transfer, expression, and molecular cloning of the human transferrin receptor gene. Kuhn LC; McClelland A; Ruddle FH Cell May 1984, 37 (1) p95-103, ISSN 0092-8674 Journal Code: CQ4 Contract/Grant No.: GM09966 32/3/56 05273317 84197317 Cell surface properties of spontaneously metastasizing rat mammary adenocarcinoma cell clones. Steck PA; Nicolson GL Transplant Proc Apr 1984, 16 (2) p355-60, ISSN 0041-1345 Journal Code: WE9 Contract/Grant No.: R01-CA28844; F32-CA07224 32/3/57 05270003 84194003 NH2-terminal hydrophobic region of influenza virus neuraminidase provides the signal function in translocation. Bos TJ; Davis AR; Nayak DP Proc Nati Acad Sci USA Apr 1984, 81 (8) p2327-31, ISSN 0027-8424 Journal Code: PV3 Contract/Grant No.: ROI AI-16348; ROI AI-12749; GM-07104 32/3/58 05267325 84191325 Genomic organization of Trypanosoma brucei variant antigen gene families in sequential parasitemias. Parsons M; Nelson RG; Newport G; Milhausen M; Stuart K; Agabian N Mol Biochem Parasitol Nov 1983, 9 (3) p255-69, ISSN 0166-6851 Journal Code: NOR Contract/Grant No.: AI 17309; AI17375 32/3/59 05267324 84191324 Molecular characterization of initial variants from the IsTat I serodeme of Trypanosoma brucei. Milhausen M; Nelson RG; Parsons M; Newport G; Stuart K; Agabian N

Mol Biochem Parasitol Nov 1983, 9 (3) p241-54, ISSN 0166-6851

Journal Code: NOR

32/3/60 05256376 84180376 A new murine model system for the in vitro development of thymoma cell heterogeneity. MacLeod CL; Hays EF; Hyman R; Bourgeois S Cancer Res May 1984, 44 (5) p1784-90, ISSN 0008-5472 Journal Code: CNF Contract/Grant No.: CA06932; CA12386; CA13287; + 32/3/61 05242327 84166327 Glucocorticoid hormone interactions with cloned provinal DNA of mouse mammary tumor virus. Groner B; Ponta H; Rahmsdorf U; Herrlich P; Pfahl M; Hynes NE J Steroid Biochem Jan 1984, 20 (1) p95-8, ISSN 0022-4731 Journal Code: K70 32/3/62 05228271 84152271 Applications of genetic engineering to the pharmaceutical industry. Ann NY Acad Sci 1983, 413 p12-22, ISSN 0077-8923 Journal Code: 5NM 32/3/63 05224403 84148403 Infection of a restrictive cell line (XC cells) by intratypic recombinants of HSV-1: relationship between penetration at the virus and relative amounts of glycoprotein C. Epstein AL; Jacquemont B; Machuca I Virology Jan 30 1984, 132 (2) p315-24, ISSN 0042-6822 Journal Code: XEA 32/3/64 05218230 84142230 Expression and regulation of human low-density lipoprotein receptors in Chinese hamster ovary cells. Sege RD; Kozarsky K; Nelson DL; Krieger M Nature Feb 23-29 1984, 307 (5953) p742-5, ISSN 0028-0836 Journal Code: NSC Contract/Grant No.: GM07753 32/3/65 05217870 84141870 Glycosylation and surface expression of the influenza virus neuraminidase requires the N-terminal hydrophobic region. Markoff L; Lin BC; Sveda MM; Lai CJ Mol Cell Biol Jan 1984, 4 (1) p8-16, ISSN 0270-7306 Journal Code:

32/3/66 05217852 84141852

NGY

Inducible expression of amplified human beta interferon genes in CHO McCormick F; Trahey M; Innis M; Dieckmann B; Ringold G Mol Cell Biol Jan 1984, 4 (1) p166-72, ISSN 0270-7366 Journal Code: NGY 32/3/67 05210581 84134581 SV40 immortalization of adult human mesenchymal cells from neuroretina. Biological, functional and molecular characterization. Daya-Grosjean L; Azzarone B; Maunoury R; Zaech P; Elia G; Zaniratti S; Benedetto A Int J Cancer Mar 15 1984, 33 (3) p319-29, ISSN 0020-7136 Journal Code: GQU 32/3/68 05204064 84128064 Alpha 1- and beta 2-adrenergic receptors co-expressed on cloned MDCK cells are distinct glycoproteins. Meier KE; Sternfeld DR; Insel PA Biochem Biophys Res Commun Jan 13 1984, 118 (1) p73-81, ISSN DDD6-291X Journal Code: 9Y8 Contract/Grant No.: GM 31987; HL 25457 32/3/69 05195494 84119494 Chimeric influenza virus hemagglutinin containing either the NH2 terminus or the COOH terminus of G protein of vesicular stomatitis virus is defective in transport to the cell surface. McQueen NL; Nayak DP; Jones LV; Compans RW Proc Natl Acad Sci USA Jan 1984, 81 (2) p395-9, ISSN 8827-8424 Journal Code: PV3 Contract/Grant No.: RO1 AI2749; RO1 AI16348; RO1 AI12680; + 32/3/70 05184983 84108983 Cytotoxic I lymphocyte recognition of class I H-2 antigens after DNA-mediated gene transfer. Reiss CS; Evans GA; Murre C; Margulies DH; Seidman JG; Burakoff SJ Fed Proc Feb 1984, 43 (2) p271-5, ISSN BD14-9446 Journal Code: EUV Contract/Grant No.: AI17258; GM19148; AI18083 32/3/71 05184928 84108928 Expression of human alpha 1-antitrypsin in Escherichia coli. Bollen A; Loriau R; Herzog A; Herion P FEBS Lett Jan 23 1984, 166 (1) p67-70, ISSN 0014-5793 Journal Code: EUH 32/3/72

05169621

84093621

Human hepatitis 8 vaccine from recombinant yeast.

McAleer WJ; Buynak EB; Maigetter RZ; Wampler DE; Miller WJ; Hilleman MR

Nature Jan 12-18 1984, 307 (5947) p178-80, ISSN 0028-0836

32/3/73

05169132 84093132

Differentiation in vitro of human-mouse teratocarcinoma hybrids.

Benham FJ; Wiles MV; Goodfellow PN

Mol Cell Biol Dec 1983, 3 (12) p2259-70, ISSN 0270-7306

Journal Code: NGY

32/3/74

05158091 84082091

Fibronectin modulation of cell shape and lipogenic gene expression in 3T3-adipocytes.

Spiegelman BM; Ginty CA

Cell Dec 1983, 35 (3 Pt 2) p657-66, ISSN 0092-8674 Journal Code: CQ4

Contract/Grant No.: AM 31405

32/3/75

05158067 84082067

Three different fibronectin mRNAs arise by alternative splicing within the coding region.

Schwarzbauer JE; Tamkun JW; Lemischka IR; Hynes RO

Cell Dec 1983, 35 (2 Pt 1) p421-31, ISSN 0092-8674 Journal Code: C94

32/3/76

05146785 84070785

Construction and characterization of an infectious taccinia virus recombinant that expresses the influenza hemagglutinin game and induces resistance to influenza virus infection in hamsters.

Smith GL; Murphy BR; Moss B

Proc Natl Acad Sci USA Dec 1983, 80 (23) p7155-9, ISSN 0027-8424

Journal Code: PV3

32/3/77

05144125 84068125

Functional expression of a transfected murine class II MHC gene.

Germain RN; Norcross MA; Margulies DH

Nature Nov 10-16 1983, 306 (5939) p190-4, ISSN 0028-0836

Journal Code: NSC

32/3/78

05137934 84061934

Membrane association and defective transport of spleen focus-forming virus glycoproteins.

Srinivas RV; Compans R₩

J Biol Chem Dec 10 1983, 258 (23) p14718-24, ISSN 0021-9258

Journal Code: HIV

Contract/Grant No.: CA 18611

32/3/79

05133691 84057691

X

Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/2007 Page 14 of 40 Repression of glycoprotein synthesis and release of surface coat during transformation of Trypanosoma brucei. Overath P; Czichos J; Stock U; Nonnengaesser C EMBO J 1983, 2 (10) p1721-8, ISSN 0261-4189 Journal Code: EMB 32/3/80 05132704 84056704 Regulation of mouse mammary tumor virus gene expression by glucocorticoid hormones. Ringold GM Curr Top Microbiol Immunol 1983, 106 p79-103, ISSN 0070-217X Journal Code: DW0 32/3/81 05129727 84053727 Carbohydrate antigen profiles of human erythroleukemia cell lines HEL and Kannagi R; Papayannopoulou T; Nakamoto B; Cochran NA; Yokochi T; Stamatoyannopoulos G; Hakomori S Blood Dec 1983, 62 (6) p1230-41, ISSN 0006-4971 Journal Code: A8G Contract/Grant No.: AM 31232; CA 20026; CA 19224; + 32/3/82 05128561 84052561 Identification of thyroglobulin mRNA sequences in the nucleus and the cytoplasm of cultured thyroid cells: a post-transcriptional effect of thyrotropin. Tosta Z; Chabaud O; Chebath J Biochem Biophys Res Commun Oct 14 1983, 116 (1) p54-61, ISSN 32/3/83 05119838 84043838 Expression of cloned growth hormone and metallothionein genes in heterologous cells. Pavlakis GN; Hamen OH Recent Prog Horm Res 1983, 39 p353-85, ISSN 0079-9963 Journal Code: R10 32/3/84 05117513 84041513 Molecular cloning and nucleotide sequence of a human renin cDNA fragment. Soubrier F; Panthier JJ; Corvol P; Rougeon F Nucleic Acids Res Oct 25 1983, 11 (20) p7181-90, ISSN 0305-1048 Journal Code: 08L . . 32/3/85 05106931 84030931 Properties of reticulum cell sarcomas in SJL/J mice. VIII. Prominent role of RCS cell I-A antigens in the stimulation of syngeneic T cells. Brown PH; Mathis D; Cone RE; Jones PP; Ponzio NM; Thorbecke GJ Immunogenetics 1983, 18 (4) p399-413, ISSN 0093-7711 Journal Code: GI4 Contract/Grant No.: CA-14462; CA-14216

32/3/86

05100633 84024633

Nucleotide sequence of cloned complementary deoxyribonucleic acid for the alpha subunit of bovine pituitary glycoprotein hormones.

Erwin CR; Croyle ML; Donelson JE; Maurer RA

Biochemistry Sep 27 1983, 22 (20) p4856-60, ISSN 0006-2960

Journal Code: AOG

Contract/Grant No.: AM 25295; AM 00841; GM07091

32/3/87

05067084 83300084

Construction and characterization of Moloney murine leukemia virus mutants unable to synthesize glycosylated gag polyprotein.

Fan H; Chute H; Chao E; Feuerman M

Proc Natl Acad Sci USA Oct 1983, 80 (19) p5965-9, ISSN 0027-8424

Journal Code: PV3

Contract/Grant No.: CA32455; CA32454; GM07311

32/3/88

05067037 83300037

Isolation of cDNA clones for the p33 invariant chain associated with H(A+DR) antigens.

Long EO; Strubin M; Wake CT; Gross N; Carrel S; Goodfellow P; Accolla RS; Mach B

Proc Natl Acad Sci USA Sep 1983, 80 (18) p5714-8, ISSN 0027-8424 Journal Code: PV3

32/3/89

05061700 83294700

Synthesis of hepatitis B surface antigen in mammalian de is: expression of the entire gene and the coding region.

Laub O; Rall LB; Truett M; Shaul Y; Standring DN; Valenzuela P; Rutter WJ J Virol Oct 1983, 48 (1) p271-80, ISSN 0022-538X Journal Code: KCV

32/3/90

05058291 83291291

Regulation of mouse haptoglobin synthesis.

Baumann H; Jahreis GP

J Cell Biol Sep 1983, 97 (3) p728-36, ISSN 0021-9525 Journal Code:

Contract/Grant No.: CA-24122

32/3/91

05058282 83291282

Expression of Semliki Forest virus proteins from cloned complementary DNA. II. The membrane-spanning glycoprotein E2 is transported to the cell surface without its normal cytoplasmic domain.

Garoff H; Kondor-Koch C; Pettersson R; Burke B

J Cell Biol Sep 1983, 97 (3) p652-8, ISSN 0021-9525 Journal Code:

32/3/92

Contract/Grant No.: CA34787

32/3/99

05031556 83264556

Fibronectin and anchorage-independent and anchorage-dependent growth of benign and malignant cell lines.

Dodson MG; Gelder FB; Slota J; Lange C

Int J Cancer Aug 15 1983, 32 (2) p211-7, ISSN 0020-7136

Journal Code: GQU

Contract/Grant No.: RR-00350

32/3/100

05014400 83247400

Active influenza virus neuraminidase is expressed in monkey cells from cDNA cloned in simian virus $40\ \text{vectors}$.

Davis AR; Bos TJ; Nayak DP

Proc Natl Acad Sci USA Jul 1983, 80 (13) p3976-80, ISSN 0027-8424

Journal Code: PV3

Contract/Grant No.: AI-16348; AI-12749; GM-07104

?t32/3/101-178

32/3/101

04999884 83232884

DNA sequences bound specifically by glucocorticoid receptor in vitro render a heterologous promoter hormone responsive in vivo.

Chandler VL; Maler BA; Yamamoto KR

Cell Jun 1983, 33 (2) p489-99, ISSN 0092-8674 Journal Code: CQ4

Contract/Grant No.: CA20535

32/3/102

04999879 83232879

Influenza virus hemagglutinin expression is polarized in cells infected with recombinant SV40 viruses carrying cloned hemagglutinin DNA.

Roth MG; Compans RW; Giusti L; Davis AR; Nayak DP; Gething MJ; Sambrook J Cell Jun 1983, 33 (2) p435-43, ISSN 0092-8674 Journal Code: CQ4

Contract/Grant No.: GM-07104; AI 07150; AI 12680; +

32/3/103

04995094 83228094

Expression of a mutant androgen receptor in cloned fibroblasts derived from a heterozygous carrier for the syndrome of testicular feminization.

Elawady MK; Allman DR; Griffin JE; Wilson JD

Am J Hum Genet May 1983, 35 (3) p376-84, ISSN 0002-9297

Journal Code: 3IM

Contract/Grant No.: AM03892

32/3/104

04988687 83221687

Analysis of cell surface proteins delineates a differentiation pathway linking endocrine and nonendocrine human lung cancers.

Goodwin G; Shaper JH; Abeloff MD; Mendelsohn G; Baylin SB

Proc Natl Acad Sci USA Jun 1983, 80 (12) p3807-11, ISSN 0027-8424

Journal Code: PV3

Contract/Grant No.: CA-18404

32/3/105

04988636 83221636

Defects in functional expression of an influenza virus hemagglutinin lacking the signal peptide sequences.

Sekikawa K; Lai CJ

Proc Natl Acad Sci USA Jun 1983, 80 (12) p3563-7, ISSN 0027-8424 Journal Code: PV3

32/3/106

04987783 83220783

The uteroglobin gene region: hormonal regulation, repetitive elements and complete nucleotide sequence of the gene.

Suske G; Wenz M; Cato AC; Beato M

Nucleic Acids Res Apr 25 1983, 11 (8) p2257-71, ISSN 0301-5610 Journal Code: 08L

32/3/107

04980648 83213648

Epithelial-mesenchymal interactions in prostatic development. II. Biochemical observations of prostatic induction by urogenital sinus mesenchyme in epithelium of the adult rodent urinary bladder.

Neubauer BL; Chung LW; McCormick KA; Taguchi O; Thompson TC; Cunha GR J Cell Biol Jun 1983, 96 (6) p1671-6, ISSN 0021-9525 Journal Code:

Contract/Grant No.: AM-25266; CA-27418; AM-06225-01

32/3/108

04980412 83213412

Correlation between nuclear glucocorticoid receptor levels and casein gene expression in murine mammary gland in vitro.

Majumder PK; Joshi JB; Banerjee MR

J Biol Chem Jun 10 1983, 258 (11) p6793-8, ISSN 0021-9258

Journal Code: HIV

Contract/Grant No.: CA11058; CA25304

32/3/109

04976795 83209795

Molecular characterization of a nonsecreting myeloma mutant.

Argon Y; Burrone OR; Milstein C

Eur J Immunol Apr 1983, 13 (4) p301-5, ISSN 0014-2980

Journal Code: EN5

32/3/110

04975615 83208615

Mammary tumor formation and hormonal control of mouse mammary tumor virus expression.

Hynes NE; Groner B

Curr Top Microbiol Immunol 1982, 101 p51-74, ISSN 0070-217X

Journal Code: DWO

```
Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/2007 Page 19 of 40
04969701 83202701
  [Structure and expression of thyroglobulin gene]
  Structure et expression du gene de la thyroglobuline.
  Vassart G; Brocas H; Christophe D; de Martynoff G; Leriche A; Mercken L;
Pohl V; Van Heuverswyn B
  Ann Endocrinol (Paris) Oct-Nov 1982, 43 (5) p404-14, ISSN 0003-4266
Journal Code: 540
 32/3/112
04955274
          83188274
  New approaches to the study of human dystrophic muscle cells in culture.
  Yasin R; Walsh FS; Landon DN; Thompson EJ
  J Neurol Sci Mar 1983, 58 (3) p315-34, ISSN 0022-510X
Journal Code: JBJ
32/3/113
04951459 83184459
  Structural comparison of I-A antigens produced by a cloned murine T
suppressor cell line with 8-cell-derived I-A.
 Koch N; Arnold B; Hammerling GJ; Heuer J; Kolsch E
 Immunogenetics 1983, 17 (5) p497-505, ISSN 0093-7711 Journal Code:
GI4
32/3/114
04936924 83169924
 Structure and regulated expression of the uteroglobin gene.
  Suske G; Menne C; Cato A; Wenz M; Beato M
 Prog Clin Biol Res 1982, 102 pt A p139-46, ISSN 0361-7742
Journal Code: PZ5
32/3/115
04929312 83162312
  Recombinant interferon-gamma increases HLA-DR synthesis and expression.
  Basham TY; Merigan TC
  J Immunol Apr 1983, 130 (4) p1492-4, ISSN 0022-1767 Journal Code:
  Contract/Grant No.: AI-05629
32/3/116
04928375 83161375
  Production of growth factors by type 5 adenovirus transformed rat embryo
cells.
 Fisher PB; Boersig MR; Graham GM; Weinstein IB
  J_Cell Physiol Mar 1983, 114 (3) p365-70, ISSN 0021-9541
Journal Code: HNB
 32/3/117
04927745 83160745
  The human fibroblast interferon gene(s) and their expression in
heterologous cells.
 Fiers W; Degrave W; Derynck R; Devos R; Gheysen D; Remaut E; Stanssens P;
Tavernier J; Content J; De Clercq E
  Int Symp Princess Takamatsu Cancer Res Fund 1982, 12 p227-36,
```

32/3/118 04924105 83157105 Hormonally regulated mammalian gene expression: steady-state level and nucleotide sequence of rabbit uteroglobin mRNA. Chandra T; Bullock DW; Woo SL DNA 1981, 1 (1) p19-26, ISSN 0198-0238 Journal Code: EAW Contract/Grant No.: HD-09378; HD-07495 32/3/119 04885858 83118858 [Thyroglobulin gene expression in cultured thyroid cells: regulation by thyrotropinl Expression du gene de thyroglobuline dans les cellules thyroidiennes en culture: regulation par la thyrotropine. Chabaud O; Chebath J; Mauchamp J Reprod Nutr Dev 1981, 21 (2) p237-45, ISSN 0181-1916 Journal Code: R57 32/3/120 04884818 83117818 Modulation of adenovirus transformation by thyroid hormone. Fisher PB; Guernsey DL; Weinstein IB; Edelman IS Proc Natl Acad Sci USA Jan 1983, 80 (1) p196-200, ISSN 0027-8424 Journal Code: PV3 Contract/Grant No.: CA-26056; CA-22376 32/3/121 04884747 83117747 Development of hybridomas secreting monoclonal antibodies to the chicken intestinal 1 alpha, 25-dihydroxyvitamin D3 receptor. Pike JW; Donaldson CA; Marion SL; Haussler MR Proc Natl Acad Sci USA Dec 1982, 79 (24) p7719-23, ISSN 0027-8424 Journal Code: PV3 Contract/Grant No.: AM 15781; AM 06249 32/3/122 04882224 83115224 from at least three loci. Bohme J; Owerbach D; Denaro M; Lernmark A; Peterson PA; Rask L Nature Jan 6 1983, 301 (5895) p82-4, ISSN 0028-0836 Journal Code: NSC

Human class II major histocompatibility antigen beta-chains are derived

32/3/123

83109308 04876308

Multiple specific binding sites for purified glucocorticoid receptors on mammary tumor virus DNA.

Payvar F; Firestone GL; Ross SR; Chandler VL; Wrange O; Carlstedt-Duke J; Gustafsson JA; Yamamoto KR

J Cell Biochem 1982, 19 (3) p241-7, ISSN 0730-2312 Journal Code: HNF

32/3/124

04874411 83107411

Pharmacogenetics and human cancer.

Nebert DW

IARC Sci Publ 1982, (39) p365-80, Journal Code: GKU

32/3/125

04872266 83105266

Expression of transformation markers and suppression of tumorigenicity in human cell hybrids.

Larizza L; Tenchini ML; Mottura A; De Carli L; Colombi M; Barlati S Eur J Cancer Clin Oncol Sep 1982, 18 (9) p845-51, Journal Code: ENW

32/3/126

04871975 83104975

Hormonal regulation of rabbit uteroglobin gene transcription.

Shen XZ; Tsai MJ; Bullock DW; Woo SL

Endocrinology Mar 1983, 112 (3) p871-6, ISSN 0013-7227

Journal Code: EGZ

Contract/Grant No.: HD-09378

32/3/127

04832596 83065596

Structure and expression of human IFN-alpha genes.

Weissmann C; Nagata S; Boll W; Fountoulakis M; Fujisawa A; Fujisawa JI; Haynes J; Henco K; Mantei N; Ragg H; Schein C; Schmid J; Shaw G; Streuli M; Taira H; Todokoro K; Weidle U

Philos Trans R Soc Lond [Biol] Sep 24 1982, 299 (1094) p7-28, ISSN 0080-4622 Journal Code: P5Z

X

32/3/128

04832590 83065590

The human fibroblast and human immune interferon genes and their expression in homologous and heterologous cells.

Fiers W; Remaut E; Devos R; Cheroutre H; Contreras R; Gheysen D; Degrave W; Stanssens P; Tavernier J; Taya Y; Content J

Philos Trans R Soc Lond [Bio1] Sep 24 1982, 299 (1094) p29-38, ISSN D080-4622 Journal Code: P5Z

X

32/3/129

04829934 83062934

Haemagglutinin of influenza virus expressed from a cloned gene promotes membrane fusion.

White J; Helenius A; Gething MJ

Nature Dec 16 1982, 300 (5893) p658-9, ISSN 0028-0836

Journal Code: NSC

Contract/Grant No.: CA13106; AI18599

X

32/3/130

04825033 83058033

Differential expression of Ta glycoprotein complexes in F1 hybrid mice detected with alloreactive cloned T cell lines.

Conrad PJ; Lerner EA; Murphy DB; Jones PP; Janeway CA Jr

```
Case 1:05-cv-12237-WGY Document 1165-11
                                                 Filed 09/26/2007 Page 22 of 40
     Immunol Dec 1982, 129 (6) p2616-20, ISSN 0022-1767 Journal Code:
 IFB.
   Contract/Grant No.: AI-14579; CA-16359; AI-14349
  32/3/131
 04799108
           83032108
   [Structure and expression of the cloned genes for human interferon]
   Seikagaku 1982, 54 (6) p363-77, ISSN 0037-1017 Journal Code: ILZ
 32/3/132
 04781990 83014990
  Isolation and structure of the gene for the progesterone-inducible
 protein uteroglobin.
   Menne C; Suske G; Arnemann J; Wenz M; Cato AC; Beato M
   Proc Natl Acad Sci USA Aug 1982, 79 (16) p4853-7, ISSN 0027-8424
 Journal Code: PV3
 32/3/133
 04781905
          83014905
   Clonal analysis of human cytotoxic T lymphocytes: T4+ and T8+ effector T
 cells recognize products of different major histocompatibility complex
 regions.
  Meuer SC; Schlossman SF; Reinherz EL
  Proc Natl Acad Sci USA Jul 1982, 79 (14) p4395-9, ISSN 0027-8424
 Journal Code: PV3
  Contract/Grant No.: CA 19589
 32/3/134
 04724645
           82267645
  Nonfunctional thyroglobulin messenger RNA in goats with hereditary
 congenital goiter.
  de Vijlder JJ; van Ommen GJ; van Voorthuizen WF; Koch CA; Arnberg AC;
 Vassart G; Dinsart C; Flavell RA
  J Mol Appl Genet 1981, 1 (1) p51-9, ISSN 0271-6801 Journal Code:
 IZT
  Contract/Grant No.: AM 21732
 32/3/135
 04724643
           82267643
  The gene encoding the common alpha subunit of the four human glycoprotein
 hormones.
  Fiddes JC; Goodman HM-
   J Mol Appl Genet
                      1981, 1 (1) p3-18, ISSN 0271-6801 Journal Code:
IZT
  Contract/Grant No.: CA14026
 32/3/136
          82257735
 04714735
   Changes in cell
                        surface antigen expression during hemopoietic
 differentiation.
   Sieff C; Bicknell D; Caine G; Robinson J; Lam G; Greaves MF
   Blood Sep 1982, 60 (3) p703-13, ISSN 0006-4971 Journal Code: A&G
```

32/3/137 04697913 82240913 Inducible expression of insulin receptors on T lymphocyte clones. Braciale VL; Gavin JR 3d; Braciale TJ J Exp Med Aug 1 1982, 156 (2) p664-9, ISSN 0022-1007 Journal Code: Contract/Grant No.: AI-15608; AM 20579 32/3/138 04692926 82235926 Different expression of Lyt differentiation antigens and cell surface glycoproteins by a murine T lymphoma line and its highly metastatic Altevogt P; Kurnick JT; Kimura AK; Bosslet K; Schirrmacher V Eur J Immunol Apr 1982, 12 (4) p300-7, ISSN 0014-2980 Journal Code: EN5 Contract/Grant No.: AI 17411 32/3/139 04679266 82222266 Immunoglobulin heavy chain gene rearrangement and transcription in murine T cell hybrids and T lymphomas. Zuniga MC; D'Eustachio P; Ruddle NH Proc Natl Acad Sci USA May 1982, 79 (9) p3015-9, ISSN 0027-8424 Journal Code: PV3 Contract/Grant No.: CA16885; GM09966; 1 T32 AI-07098 32/3/140 04671055 82214055 alpha Subunit of rat pituitary glycoprotein hormones. Primary structure of the precursor determined from the nucleotide sequence of cloned cDNAs. Godine JE; Chin WW; Habener JF J Biol Chem: Jul 25 1982, 257 (14) p8368-71, ISSN 0021-9258 Journal Code: HIV Contract/Grant No.: AM25532; HD14809 32/3/141 04656142 82199142 Isolation and characterization of a human fibroblast interferon gene and its expression in Escherichia coli. Derynck R; Devos R; Remaut E; Saman E; Stanssens P; Tavernier J; Volckaert G; Content J; De Clercq E; Fiers W Rev Infect Dis Nov-Dec 1981, 3 (6) p1186-95, ISSN 0162-0886 Journal Code: SXN 32/3/142 04654610 82197610 Gene for a major cell surface glycoprotein of mouse macrophages and other phagocytic cells is on chromosome 2. Colombatti A; Hughes EN; Taylor 8A; August JT Proc Natl Acad Sci USA Mar 1982, 79 (6) p1926-9, ISSN 0027-8424 Journal Code: PV3

Contract/Grant No.: RO1 CA19471; CA 09243; GM18684

32/3/143

04654469 82197469

Human influenza virus hemagglutinin is expressed in monkey cells using simian virus 40 vectors.

Hartman JR; Nayak DP; Fareed GC

Proc Natl Acad Sci USA Jan 1982, 79 (2) p233-7, ISSN 0027-8424

Journal Code: PV3

Contract/Grant No.: R01 CA-20794; R01-AI-12749; R01-AI-16348

X

32/3/144

04624818 82167818

Control of growth and normal differentiation in leukemic cells: regulation of the developmental program and restoration of the normal phenotype in myeloid leukemia.

Sachs L

J Cell Physiol [Suppl] 1982, 1 p151-64, ISSN 0737-1462 Journal Code: HNC

32/3/145

04617936 82160936

Inhibitors of protein glycosylation inhibit the differentiation of Friend erythroleukemia cells.

Bosman GJ; Boer P; Steyn-Parve EP

Biochim Biophys Acta Mar 29 1982, 696 (3) p285-9, ISSN 0006-3002 Journal Code: ADW

32/3/146

04601282 82144282

Specificity studies on cytolytic T lymphocytes directed against murine leukemia virus-induced tumors. Analysis of monoclonal cytolytic T lymphocytes.

Plata F

J Exp Med Apr 1 1982, 155 (4) p1050-62, ISSN 0022-1007 Journal Code: I2V

32/3/147

04600707 82143707

Two distinct human cloned T cell lines that exhibit natural killer-like and anti-human effector activities.

Sugamura K; Tanaka Y; Hinuma Y

J Immunol Apr 1982, 128 (4) p1749-52, ISSN 0022-1767 Journal Code: IFB

32/3/148

04592750 82135750

Differing responses of globin and glycophorin gene expression to hemin in the human leukemia cell line K562.

Tonkonow BL; Hoffman R; Burger D; Elder JT; Mazur EM; Murnane MJ; Benz EJ Jr

Blood Apr 1982, 59 (4) p738-46, ISSN 0006-4971 Journal Code: A8G Contract/Grant No.: HL24385; CA22697; AM00638

32/3/149

AM 27 014717

f

04572033 82115033 Block in the expression of differentiation markers of rat thyroid epithelial cells by transformation with Kirsten murine sarcoma virus. Fusco A; Pinto A; Tramontano D; Tajana G; Vecchio G; Tsuchida N Cancer Res Feb 1982, 42 (2) p618-26, ISSN 0008-5472 Journal Code: CNF Contract/Grant No.: R01-AM-21689-02; CA 22701 32/3/150 04549358 82092358 Human trophoblasts: cellular source of colony-stimulating activity in placental tissue. Ruscetti FW; Chou JY; Gallo RC Blood Jan 1982, 59 (1) p86-90, ISSN 0006-4971 Journal Code: A8G 32/3/151 04517272 82060272 Functional expression in primate cells of cloned DNA coding for the hemagglutinin surface glycoprotein of influenza virus. Sveda MM; Lai CJ Proc Natl Acad Sci USA Sep 1981, 78 (9) p5488-92, ISSN 0027-8424 Journal Code: PV3 32/3/152 04517125 82060125 .Induction of hepatic synthesis of serum amyloid A protein and actin. Morrow JF; Stearman RS; Peltzman CG; Potter DA Proc Natl Acad Sci USA Aug 1981, 78 (8) p4718-22, ISSM 3027-8424 Journal Code: PV3 Contract/Grant No.: CA16519; GM26557 32/3/153 04510036 82053036 Mosaic structure and mRNA precursors of uteroglobin, a hormone-regulated mammalian gene. Snead R; Day L; Chandra T; Mace M Jr; Bullock DW; Woo SL Nov 25 1981, 256 (22) p11911-6, ISSN 0021-9258 J Biol Chem Journal Code: HIV Contract/Grant No.: HD-09378; HD-07495 32/3/154 04467875 82010875 Wild mouse ecotropic murine leukemia virus infection of inbred mice: dual-tropic virus expression precedes the onset of paralysis and lymphoma. Hoffman PM; Davidson WF; Ruscetti SK; Chused TM; Morse HC 3d J. Virol Aug 1981, 39 (2) p597-602, ISSN 0022-538X Journal Code: KCV 32/3/155 04466494 82009494 A cell surface antigen of the mouse related to xenotropic MuLv defined by naturally occurring antibody and monoclonal antibody. Relation to Gix

G(rada1), G(aks12) systems of MuLV-related antigens.

Obata Y; Stockert E; DeLeo AB; O'Donnell PV; Snyder HW Jr; Old LJ

J Exp Med Sep 1 1981, 154 (3) p659-75, ISSN 0022-1007

Contract/Grant No.: NO1-CP8-1054; CA-08748

32/3/156

04462085 82005085

Further characterization of a thermosensitive transformation variant of mouse fibroblasts.

Liaw WS; Andoh T

Gann Dec 1980, 71 (6) p775-83, ISSN 0016-450X Journal Code: FGJ

32/3/157

04459208 82002208

Establishment of continuous cultures of thy1.2+, Lyt1+, 2-T cells with purified interleukin 3.

Hapel AJ; Lee JC; Farrar WL; Ihle JN

Cell Jul 1981, 25 (1) p179-86, ISSN 0092-8674 Journal Code: CQ4

32/3/158

04387675 81215675

Estradiol-independent growth of a subline of MCF-7 human breast cancer cells in culture.

Nawata H; Chong MT; Bronzert D; Lippman ME

J Biol Chem Jul 10 1981, 256 (13) p6895-902, ISSN 0021-9258

Journal Code: HIV

32/3/159

04371567 81199567

Detection of a recombinant murine leukemia virus-related glycoprotein on virus-negative thymoma cells.

Fischinger PJ; Thiel HJ; Ihle JN; Lee JC; Elder JH

Proc Natl Acad Sci USA Mar 1981, 78 (3) p1920-4, ISSN 3827-8424

Journal Code: PV3

32/3/160

04347157 81175157

Transcripts of the immunoglobulin C mu gene vary in structure and splicing during lymphoid development.

Kemp DJ; Harris AW; Adams JM

Proc Natl Acad Sci USA Dec 1980, 77 (12) p7400-4, ISSN 0027-8424

Journal Code: PV3

Contract/Grant No.: RO1 CA12421

32/3/161

04345083 81173083

alpha-Lactalbumin is not a marker of human hormone-dependent breast cancer.

Hall L; Craig RK; Davies MS; Ralphs DN; Campbell PN

Nature Apr 16 1981, 290 (5807) p602-4, ISSN 0028-0836

Journal Code: NSC

32/3/162

04342758 81170758

Involvement of a high-molecular-weight polyprotein translational product

```
Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/20 of Snyder-Theilen Feline sarcoma virus in malignant transformation.
                                                    Filed 09/26/2007
                                                                       Page 27 of 40
  Reynolds FH Jr; Van de Ven WJ; Blomberg J; Stephenson JR
  J Virol Feb 1981, 37 (2) p643-53, ISSN 0022-538X
                                                        Journal Code: KCV
  Contract/Grant No.: NO1-CO-75380
 32/3/163
04338487
         81166487
  Roles of influenza virus infectivity and glycosylation of viral antigen
for recognition of target cells by cytolytic T lymphocytes.
  Ertl H; Ada GL
  Immunobiology 1981, 158 (3) p239-53, Journal Code: GH3
 32/3/164
04246991 81074991
  Expression of H-2, laminin and SV40 T and TASA on differentiation of
transformed murine teratocarcinoma cells.
  Knowles BB; Pan S; Solter D; Linnenbach A; Croce C; Huebner K
  Nature Dec 11 1980, 288 (5791) p615-8, ISSN 0028-0836
Journal Code: NSC
 32/3/165
04200301
          81028301
  Plasma membrane glycoproteins encoded by cloned Rauscher and Friend
spleen focus-forming viruses.
  Ruta M; Kabat D
  J Virol Sep 1980, 35 (3) p844-53, ISSN 0022-538X Journal Code: KCV
  Contract/Grant No.: CA2302: CA25810
 32/3/166
04187443 81015443
  Mapping of heavy chain genes for mouse immunoglobulins M and D.
  Liu CP; Tucker PW; Mushinski JF; Blattner FR
  Science Sep 19 1980, 209 (4463) p1348-53, ISSN 0036-8075
Journal Code: UJ7
 32/3/167
04143521
          80254521
  Expression of cloned beta-endorphin gene sequences by Escherichia coli.
  Shine J; Fettes I; Lan NC; Roberts JL; Baxter JD
  Nature Jun 12 1980, 285 (5765) p456-63, ISSN 0028-0836
Journal Code: NSC
32/3/168
04139863 80250863
  Expression of
                  leukemogenic recombinant viruses associated with a
recessive gene in HRS/J mice.
  Green N; Hiai H; Elder JH; Schwartz RS; Khiroya RH; Thomas CY; Tsichlis
PN; Coffin JM
            Aug 1 1980, 152 (2) p249-64, ISSN 0022-1007
  J Exp Med
Journal Code: I2V
```

32/3/169 04123693 80234693

AM 27 014720

ŧ.

Establishment of a fetal rat liver cell line that retains differentiated liver functions. Schlegel-Haueter SE; Schlegel W; Chou JY Proc Natl Acad Sci USA May 1980, 77 (5) p2731-4, ISSN 0027-8424 Journal Code: PV3 32/3/170 04072866 80183866 Amplified env and gag products on AKR cells. Origin from different murine leukemia virus genomes. Tung JS: Fleissner E J Exp Med Apr 1 1980, 151 (4) p975-9, ISSN 0022-1007 Journal Code: I2V 32/3/171 04072481 80183481 Serological and immunochemical studies of H-2 allospecificities on K36, a syngeneic tumour of AKR. Schmidt W; Festenstein H J Immunogenet Feb 1980, 7 (1) p7-17, ISSN 0305-1811 Journal Code: IF2 32/3/172 03935703 80046703 Synthesis and characterization of a DNA complementary to pre-uteroglobin mRNA. Arnemann J; Heins B; Beato M Eur J Biochem Sep 1979, 99 (2) p361-7, ISSN 0014-2956 Journal Code: EMZ 32/3/173 03901840 80012840 Modulation of thyroglobulin messenger RNA level by thyrotropin in cultured thyroid cells. Chebath J; Chabaud O; Mauchamp J Nucleic Acids Res Jul 25 1979, 6 (10) p3353-67, ISSN 0301-5610 Journal Code: 08L 32/3/174 03818734 79195734 Expression of xenotropic murine leukemia viruses as cell-surface gp70 in genetic crosses between strains DBA/2 and C57BL/6. Morse HC 3d; Chused TM; Hartley JW; Mathieson BJ; Sharrow SO; Taylor BA J Exp Med May 1 1979, 149 (5) pl183-96, ISSN 0022-1007 Journal Code: I2V 32/3/175 03818210 79195210 T100: a new murine cell surface glycoprotein detected by anti-Lyt-2.1 Durda PJ; Boos SC; Gottlieb PD J Immunol Apr 1979, 122 (4) p1407-12, ISSN 0022-1767 Journal Code: IFB

32/3/176 03476626 78110626 Genetic control of endotoxic responses in mice. Watson J; Largen M; McAdam KP J Exp Med Jan 1 1978, 147 (1) p39-49, ISSN 0022-1007 Journal Code: 32/3/177 03389884 78023884 Reverse transcription of thyroglobulin 33-S mRNA. Dinsart C; Van Voorthuizen F; Vassart G Eur J Biochem Aug 15 1977, 78 (1) p175-81, ISSN 0014-2956 Journal Code: EMZ 32/3/178 03165782 77067782 The ia antigens. Sachs DH Contemp Top Mol Immunol 1976, 5 p1-33, ISSN 0090-8800 Journal Code: DGO

```
Set
      Items Description
· 31
      66204 RECOMBINAN? OR RDNA OR CDNA OR GENETIC?(2N)ENGINEER??? OR
             CLON??? OR CLONING()MOLECULAR OR MRNA OR BIOTECHNOLOG?
$2
          7 REPO OR RERYTHROPOIFTIN
53
          1 R()ERYTHROPOIETIN
34
     135002 DC=D12.776.543? OR DC=D12.776.395? Un base and
       7853 GLYCOSYLAT???? OR CARBOHYDRATE? ?(2N)STRUCTUR?? OR
35
             CARBOHYDRATE? ?(N)CONFORMATION? ?
<sup>/</sup>$6
        564
             - $4 AND PROTEIN()PROCESSING()POST()TRANSLATIONAL/DE
37
        5693 (S1 OR S3) AND (S4 OR S5 OR S6)
58
        341 CHO()CELL? ?/TI
       3333 CHO OR CHINESE()HAMSTER()OVARY
S9
510
       1541 CV1 OR BSC1 OR BHK
        228 COS AND (CELL()LINE OR CELLS()CULTURED)
511
        149 S7 AND (S8 OR 59 OR S10 OR S11)
S12
        2480
S13
             RECOMBINANT()PROTEINS
514
          2
             DNA()BI
$15
        133
             DNA()BIOSYNTHESIS
          \Box
             $15 AND ($4 OR $5 OR $6) AND ($8 OR $9 OR $10 OR $11)
S16
         87
             512/1985:1988
S17
518
         62
             $12 NOT $17
S19
          0
             312 AND (UD=8501 OR UD=8502 OR UD=8503)
      22375 JA="8501"
S20 ·
521
             ($12 AND $20) OR $18
S22
             )(S12 AND JA=8502) OR S18
```

22/7, JA, LA/1 05456238 85072238

Phosphorylation of membrane proteins in monensin-resistant mutant of Chinese hamster ovary cell with altered insulin-receptor activity.

Ono M; Takahashi K; Sato Y; Kuwano M

Biochem Int Sep 1984, 9 (3) p369-77, ISSN 0158-5231 Journal Code: 9Y9

Languages: ENGLISH

Journal Announcement: 8503

A Chinese hamster ovary (CHO) cell mutant resistant to the Na+/K+ ionophoric antibiotic, monensin, is partly defective in insulin-receptor activity. Growth of the monensin-resistant mutant required higher dose of insulin in defined medium than the parental CHO cell. Membrane proteins of CHO and a monensin-resistant clone, MonR-31, were compared for their capacity to be phosphorylated by endogenous phosphorylation enzyme in vitro in the absence or presence of insulin. Several membrane proteins of CHO were more highly phosphorylated as compared with MonR-31 in either the absence or presence of insulin.

22/7, JA, LA/2 05440508 85056508

Purification of recombinant glycosylated human gamma interferon expressed in transformed Chinese hamster ovary cells.

Devos R; Opsomer C; Scahill SJ; Van der Heyden J; Fiers W J Interferon Res Fall 1984, 4 (4) p461-8, ISSN 0197-2007

Journal Code: IJI Languages: ENGLISH

Journal Announcement: 3503

Human IFN-gamma was produced in cultures of a Chinese hamster ovary (CHO) cell line transformed with a combination of plasmids encoding HuIFN-gamma cDNA and mouse DHFR cDNA and subsequently selected for growth in the presence of methotrexate. Confluent monolayers of these constitutively secrete HuIFN-gamma into the medium reaching a concentration of 2-5 micrograms/ml; the supernatant of the monolayer could be harvested daily for a period of more than 10 days. IFN-gamma was purified by passing the filtered CHO cell culture medium directly through a phosphocellulose column followed by elution and adsorption on a Con A-Sepharose column. Further concentration on an AMICON PM 10 filter and removal of high mw contaminating proteins with DEAE-Sephacel resulted in a IFN-gamma preparation of more than 99% purity (specific activity of about 10(8) International units per mg of protein). Each liter of CHO conditioned culture medium yielded 1-2 mg pure HuIFN-gamma. Its molecular weight, as determined by gel filtration, is about 50 kD and corresponds to a dimer structure. SDS-polyacrylamide gel electrophoresis indicated the presence of a, 21 kD and a 25 kD polypeptide as compared with 17 kD for unglycosylated, bacterially made HuIFN-gamma and consistent with the two glycosylated forms of HulfN-gamma produced in mitogen-stimulated human lymphocyte cultures.

22/7, JA, LA/3 05432951 85048951

Reconstitution of the transport of protein between successive compartments of the Golgi measured by the coupled incorporation of N-acetylglucosamine.

Balch WE; Dunphy WG; Braell WA; Rothman JE

Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/2007 Page 32 of 40 Cell Dec 1984, 39 (2 Pt 1) p405-16, ISSN 0092-8674 Journal Code:

Contract/Grant No.: AM 27044

Languages: ENGLISH

Journal Announcement: 8503

Transport of the VSV-encoded glycoprotein (6 protein) between successive compartments of the Golgi has been reconstituted in a cell-free system and is measured, in a rapid and sensitive new assay, by the coupled incorporation of 3H-N-acetylglucosamine (GlcNAc). This glycosylation occurs when G protein is transported during mixed incubations from the "donor" compartment in Golgi from VSV-infected CHO clone 15B cells (missing a key Golgi GlcNAc transferase) to the next, successive "acceptor" compartment (containing the GlcNAc transferase) in Golgi from wild-type CHO cells. Golgi fractions used in this assay have been extensively purified, and account for all of the donor and acceptor activity in the cells. Together with several other lines of evidence, this indicates that the cell-free system is highly specific, measuring only transport between sequential compartments in the Golgi stack. Transport in vitro is almost as efficient as in the cell, and requires ATP and the cytosol fraction in addition to protein components on the cytoplasmic surface of the Golgi membranes.

22/7, JA, LA/4 05432939 85048939

Translocation across Golgi vesicle membranes: a CHO glycosylation mutant deficient in CMP-sialic acid transport.

Deutscher SL; Nuwayhid N; Stanley P; Briles EI; Hirschberg CB

Cell Dec 1984, 39 (2 Pt 1) p295-9, ISSN 0092-8674 Journal Code: CQ4 Contract/Grant No.: CA-30345; GM 30365

Languages: ENGLISH

Journal Announcement: 8503

Golgi vesicle membranes from the Lec2 CHO glycosylation mutant translocate CMP-sialic acid at only 2% the rate of vesicles from wild-type CHO cells. The deficiency is specific, because vesicles from Lec2 cells can translocate UDP-N-acetylglucosamine, adenosine 3'-phosphate 5'-phosphosulfa te, and UDP-galactose at rates comparable to those of vesicles from wild-type cells. Complementation analyses show that Lec2 mutants belong to the same genetic complementation group as clone 1021, a CHO mutant of similar phenotype. Both mutants have previously been shown to have a 90% reduction in the sialylation of glycoproteins and gangliosides compared with wild-type cells. However, 1021 cells appear to have normal levels of CMP-sialic acid, sialyltransferase activity, and endogenous acceptors for sialylation. It seems likely that the primary defect in Lec2 and 1021 cells is their inability to translocate CMP-sialic acid across Golgi vesicle membranes.

22/7, JA, LA/5 05415790 85031790

Immunologic differentiation between E. coli and CHO cell-derived recombinant and natural human beta-interferons.

Colby CB; Inoue M; Thompson M; Tan YH

J Immunol Dec 1984, 133 (6) p3091-5, ISSN 0022-1767 Journal Code: IFB

Languages: ENGLISH

Journal Announcement: 8502

The products of the human IFN-beta gene expressed in E. coli, Chinese hamster overy (CHO) cells, and human fibroblasts appear similar when purified on a monoclonal antibody column and analyzed by reverse-phase HPLC, indicating little difference in their hydrophobic nature. SDS-PAGE

X

Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/2007 Page 33 of 40 differentiates E. coli-rhuIFN-beta ser (Mr = 17,000) from CHO-rhuIFN-beta and HuIFN-beta (Mr = 23,000), with glycosylation accounting for 26% of the apparent m.w. of the latter two proteins. CHO-rHuIFN-beta is preferentially by mouse monoclonal and monospecific rabbit polyclonal neutralized antibodies, whereas E. coli-rHuIFN-beta ser is anti-HuIFN-beta preferentially neutralized by goat polyclonal anti-E. coli-rHuIFN-beta Adsorption measurements by a sensitive radioimmunoassay indicate that the binding of the three proteins to anti-HuIFN-beta antibodies is similar. The results show that all three molecules can be differentiated by the heteroclitic cross-reactivities of anti-HuIFN-beta and anti-E. coli-rHuIFN-beta antibodies to the antigens.

22/7, JA, LA/6 05408898 85024898

The human LDL receptor: a cysteine-rich protein with multiple Alu sequences in its mRNA.

Yamamoto T; Davis CG; Brown MS; Schneider WJ; Casey ML; Goldstein JL; Russell DW

Cell Nov 1984, 39 (1) p27-38, ISSN 0092-8674 Journal Code: CQ4 Contract/Grant No.: HL20948; HL31346; HD11149; +

Languages: ENGLISH

Journal Announcement: 8502

The nucleotide sequence of a cloned 5.3 kilobase cDNA for the human low density lipoprotein receptor revealed five domains in the 839 amino acid protein: 322 NH2-terminal amino acids, extremely rich in disulfide-bonded cysteine residues (15%) and including an 8-fold repeat of 40 residues that may contain the LDL binding site; 350 residues homologous to the precursor of mouse epidermal growth factor; a region immediately outside the plasma membrane, rich in serine and threonine and the site of 0-linked glycosylation; 22 hydrophobic amino acids, spanning the plasma membrane; and 50 COOH-terminal amino acids, projecting into the cytoplasm. The mRNA for the receptor contains a 3' untranslated region of 2.5 kilobases that includes multiple copies of the Alu family of repetitive DNA. Transfection of simian COS cells with the human LDL receptor cDNA linked to the SV40 early promoter resulted in expression of functional cell surface receptors.

22/7,JA,LA/7 D5393844 85009844

Mapping and expression of a human cytomegalovirus major viral protein. Davis MG; Mar EC; Wu YM; Huang ES

J Virol Oct 1984, 52 (1) p129-35, ISSN 3022-538X Journal Code: KCV Languages: ENGLISH

Journal Announcement: 8501

constructed a DNA fragment map of low-passage Towne strain cytomegalovirus by analyzing cross-blot hybridization and hybridizations of isolated recombinant clones. The abundant late transcripts were located on this map by hybridization of labeled total RNA of virus-infected cells to blotted DNA fragments. The most abundant late transcript, carried by the 11..7-kilobase EcoRI fragment (EcoRI-G), was precisely mapped. The EcoRI fragment was fragmented and subcloned in a plasmid carrying simian virus 40 sequences (pSV-OH, constructed by Chi-Bom Chae, Department of Biochemistry, University of North Carolina, Chapel Hill). One resulting recombinant plasmid, pHD7135V2, was transferred to simian virus 40-transformed monkey by DNA transfection. (COS-1) Synthesis of cytomegalovirus-specific 67-kilodalton protein was detected in these cells by reaction of blotted proteins with virus-specific monoclonal antibody. The 67-kilodalton protein is a major phosphorylated protein found in virions; it is not glycosylated. The location of the gene for this

Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/2007 Page 34 of 40

67-kilodalton protein is therefore assigned to the center of the L-unique region of human cytomegalovirus, at 0.37 to 0.39 map units.

22/7, JA, LA/8

05288790 84212790

Mouse myeloma cells that make short immunoglobulin heavy chains: pleiotropic effects on glycosylation and chain assembly.

Kenter AL; Warren T; Shields D; Birshtein BK

J Cell Biol Jun 1984, 98 (6) p2215-21, ISSN 0021-9525

Journal Code: HMV

Contract/Grant No.: AI 13509; AI 10702

Languages: ENGLISH

Journal Announcement: 8409

Two variants in immunoglobulin heavy chain production, derived from the MPC 11 mouse myeloma cell line, make short heavy (H) chains with identical precise deletions of the CH3 domain. The CH3 domain is expressed in the H chain mRNA from both variants. Although in vitro translation of this mRNA produces one H chain species, deleted heavy chains are secreted as heavy-light (HL) and H2L2 moieties in contrast to MPC 11, which secretes only H2L2. The heavy chains of HL apparently contain more carbohydrate (CH0+) than do the H chains of H2L2, and inhibition of N-linked glycosylation results in the secretion of relatively more H2L2. Here we present evidence suggesting that (a) the absence of the CH3 domain has led to conformational changes in these molecules, (b) these changes permit posttranslational glycosylation, and (c) unrestrained glycosylation can frequently yield unusual CH0+ structures that make complete assembly unlikely.

22/7, JA, LA/9

05270003 84194003

NH2-terminal hydrophobic region of influenza virus neuraminidase provides the signal function in translocation.

Bos TJ; Davis AR; Nayak DP

Proc Natl Acad Sci USA Apr 1984, 81 (8) p2327-31, ISSN 0027-8424

Journal Code: PV3

Contract/Grant No.: ROI AI-16348; ROI AI-12749; GM-07104

Languages: ENGLISH

Journal Announcement: 8408

Influenza virus neuraminidase (NA), unlike the majority of integral membrane proteins, does not contain a cleavable signal sequence. It contains an NH2-terminal hydrophobic domain that functions as an anchor. We have investigated the signal function for translocation of this NH2-terminal hydrophobic domain of NA by constructing chimeric cDNA clones in which the DNA coding for the first 40 NH2-terminal hydrophobic amino acids of 'NA was joined to the DNA coding for the signal-minus hemagglutinin (HA) of influenza virus. The chimeric HA (N40H) containing the NH2 terminus of NA was expressed in CV1 cells by using a simian virus 40 late-expression vector. The chimeric HA is synthesized, translocated into the rough endoplasmic reticulum, and glycosylated, whereas HA lacking the signal sequence is present only in small amounts and is unglycosylated. These results clearly show that the NH2 terminus of NA, in addition to its anchor function, also provides the signal function in translocation. However, the acquisition of complex oligosaccharides and the transport of N4OH to the cell surface are greatly retarded. To determine if the presence of two anchor sequences, one provided by NA at the NH2 terminus and the other provided by HA at the COOH terminus of N4OH, was responsible for the slow transport, the NH2 terminus of NA was fused to an "anchorless" HA. The resulting chimeric HA (N40H482) contains the hydrophobic domain of NA at

Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/2007 Page 35 of 40 the NH2 terminus but lacks the HA anchor at the COOH terminus NAOHARA WAR

the NH2 terminus but lacks the HA anchor at the COOH terminus. N40H482 was synthesized and glycosylated; however, as with N40H, the acquisition of complex oligosaccharides and the migration to the cell surface are greatly retarded. Immunofluorescence data also support that, compared to the native HA, only a small amount of chimeric HA proteins is transported to the cell surface. Thus, the hydrophobic NH2 terminus of NA, although capable of providing the signal function in translocation across the rough endoplasmic reticulum, interferes with the tra

22/7, JA, LA/10 05261856 84185856

Chinese hamster ovary cell variants resistant to monensin, an ionophoric antibiotic. II. Growth requirement for insulin and altered insulin-receptor activity.

Sato Y; Ono M; Takaki R; Kuwano M

J Cell Physiol May 1984, 119 (2) p204-10, ISSN 0021-9541

Journal Code: HNB Languages: ENGLISH

Journal Announcement: 8408

From the Chinese hamster ovary (CHO) cell, genetic variants (MonR-31 and MonR-32) relatively resistant to monensin, an ionophoric antibiotic, have been isolated. Growth of both MonR-31 and MonR-32 clones required higher doses of serum than CHO. Addition of insulin to media containing a low dose of serum restored full colony formation, but growth of MonR-31 or MonR-32 cells required more insulin than CHO cells. Specific binding of [125I]insulin was observed in these cell lines. The two MonR clones bound about one-half or less the [125I]insulin bound by CHO cells. Scatchard analysis for [125I]insulin binding at 4 degrees C and 37 degrees C showed altered number of binding sites, but not insulin affinity: The number of binding sites in the MonR cell was about a half or iss that of the parental CHO cell. Down-regulation of insulin receptor was assayed when both CHO and MonR cells were incubated with 1 microgram/ml insulin. A 50-60% decrease in levels of insulin surface binding capacities was observed in CHO after exposure to insulin, whereas there was no decrease in MonR cell. The cellular uptake of 2-[3H]deoxyglucose into CHO cells was significantly enhanced in the presence of insulin, but only slight, if any, increase was observed in MonR cells.

22/7, JA, LA/11 05256761 84180761

BHK cell variant with defective fibronectin receptor function.

Oppenheimer-Marks N; Border B; Grinnell F

Cell Biol Int Rep Feb 1984, 8 (2) p171-8, ISSN 0309-1651

Journal Code: CRC

Contract/Grant No.: CA14609

Languages: ENGLISH -

Journal Announcement: 8408

Baby hamster kidney cells were mutagenized with N-methyl-N'-nitro-N-nitrosoguanidine and selected to obtain a population of non-attaching cells. The cell variant FN-1 was cloned from the non-attaching cell population, recloned, and tested for cell adhesive interactions using four different assays of fibronectin (pFN) receptor function: cell attachment and spreading on culture dishes and cell binding and phagocytosis of latex beads. On pFN-coated culture dishes, FN-1 cells had decreased attachment compared to parental cells and were unable to spread. With pFN-coated beads, only one third as many pFN-bead binding sites could be detected on FN-1 cells as on the parental cells, and the FN-1 cells were unable to phagocytose the pFN-coated beads. In other

Case 1:05-cv-12237-WGY Document 1165-11 Filed 09/26/2007 Page 36 of 40 studies, the variant cells were able to attach normally and spread partially on substrata coated with polycationic ferritin, concanavalin A, or anti-BHK cell surface antibody. The results suggest that the pFN-receptor function of FN-1 cells is defective.

22/7, JA, LA/12 05232538 84156538

Microinjection of mRNA coding for an anti-Golgi antibody inhibits intracellular transport of a viral membrane protein.

Burke B; Warren G

Cell Apr 1984, 36 (4) p847-56, ISSN 0092-8674 Journal Code: C04

Languages: ENGLISH

Journal Announcement: 8407

Messenger RNA was prepared from a hybridoma cell line secreting a monoclonal antibody (53FC3) directed against a luminal epitope of a Golgi membrane protein (Mr = 135 kd) found in rodent cells. When this mRNA was microinjected into the cytoplasm of BHK cells, mouse IgG was seen to accumulate in the Golgi complex after 5-6 hr of incubation. No accumulation was seen in 3T3 cells which lack the epitope recognized by 53FC3. When microinjected BHK cells were infected with vesicular stomatitis virus, surface expression of the viral G protein was considerably reduced when compared with neighboring noninjected cells.

22/7, JA, LA/13 05218230 84142230

Expression and regulation of human low-density lipoprotein receptors in Chinese hamster ovary cells.

Sege RD; Kozarsky K; Nelson DL; Krieger M

Nature Feb 23-29 1984, 307 (5953) p742-5, ISSN 0028-0836

Journal Code: NSC

Contract/Grant No.: GM07753

Languages: ENGLISH

Journal Announcement: 8406

Low-density lipoprotein (LDL), the major cholesterol transport component of human plasma, delivers cholesterol to mammalian cells via the LDL pathway of receptor-mediated endocytosis. LDL receptor activity and cholesterol biosynthesis are coordinately regulated by cholesterol-mediated feedback suppression. We have developed methods for the isolation of mutant and revertant (M.K., unpublished data) Chinese hamster ovary (CHO) cells having alterations in cholesterol biosynthesis and in the receptor-mediated endocytosis of LDL. The defective locus of one LDL receptor-negative CHO mutant (clone 7a-1) is apparently the structural gene for the LDL receptor Kingsley, M. Segal and M.K., unpublished data). Here we have transfected 7a-1 cells with human DNA and selected colonies which synthesize functional human LOL receptors whose expression is regulated normally. This selection may prove useful for cloning genes required for the receptor-mediated endocytosis of LDL and other ligands and thus for elucidating the molecular defects responsible for hypercholesterolaemia, one of the most common genetic diseases in humans.

22/7, JA, LA/14 05217852 84141852

Inducible expression of amplified human beta interferon genes in CHO cells.

McCormick F; Trahey M; Innis M; Dieckmann B; Ringold G Mol Cell Biol Jan 1984, 4 (1) p166-72, ISSN 0270-7306 Journal Code: NGY

Journal Announcement: 8406

Plasmid DNA containing the human beta-interferon (IFN-beta) gene and mouse dihydrofolate reductase cDNA was transfected into dihydrofolate Chinese hamster reductase-negative ovary cells. Dihydrofolate reductase-positive transformants were obtained, and cells containing amplified copies of mouse dihydrofolate reductase were selected by exposure to increasing methotrexate concentrations. These cells were found to high levels of human IFN-beta after polyriboinosinic acid-polyribocytidylic acid superinduction or NDV infection; this was a result of coamplification of the IFN-beta gene. Levels of expression of 1 U/cell per day were achieved on superinduction, giving corresponding titers of up to 10(10) U/liter medium in culture supernatants. Constitutive production of IFN-beta rates of about 0.5% of superinduced rates was observed; cells producing these levels of IFN-beta had acquired resistance to cytotoxic antiviral effects of IFN-beta. Two forms of human IFN-beta were produced; a major glycosylated 23,000-dalton form and an unglycosylated 18,500-dalton form. The latter had greatly reduced antiviral activity. IFN-beta production was very sensitive to cellular growth rate; the highest levels were produced by density-arrested cultures. Regulation of IFN-beta production by polyriboinosinic acid-polyribocytidylic acid or by cell density effects required the presence of DNA sequences 5' to the IFN-beta-coding sequences; replacement of these sequences with the simian virus 40 early promoter resulted in uninducible, density-independent production of IFN-beta.

22/7,JA,LA/15 05195494 84119494

Chimeric influenza virus hemagglutinin containing either the NH2 terminus or the COOH terminus of G protein of vesicular stomatitis virus is defective in transport to the cell surface.

McQueen NL; Nayak DP; Jones LV; Compans RW

Proc Natl Acad Sci USA Jan 1984, 81 (2) p395-9, ISSN 8827-8424

Journal Code: PV3

Contract/Grant No.: R01 AI2749; R01 AI16348; R01 AI12680; +

Languages: ENGLISH

Journal Announcement: 8405

Chimeric cDNA clones of influenza virus hemagglutinin (HA) were constructed in which the DNA encoding either the NH2 terminus or the COOH terminus of HA was replaced with that of a vesicular stomatitis virus G protein. The chimeric cDNAs (GHA or HAG) were expressed in CV1 cells using the simian virus 40 late replacement promoter. Both chimeric proteins are synthesized, glycosylated, and transported to the rough endoplasmic reticulum. These results show that the NH2-terminal sequences of vesicular stomatitis virus G protein can provide a signal function for translocation and the COOH-terminal sequences can provide the anchor function for the influenza virus HA, When substituted for similar sequences. However, the chimeric glycoproteins were not transported to the Golgi complex or the plasma membrane. The implication of these results in translocation, sorting, and transport processes is discussed.

22/7, JA, LA/16 05163936 84087936

Biosynthesis of N- and O-linked pligosaccharides of the low density lipoprotein receptor.

Cummings RD; Kornfeld S; Schneider WJ; Hobgood KK; Tolleshaug H; Brown MS; Goldstein JL

J Biol Chem Dec 25 1983, 258 (24) p15261-73, ISSN 0021-9258

Contract/Grant No.: RO1 CA08759; HL 20948; 5 T32 HD07103

Languages: ENGLISH

Journal Announcement: 8404

In human fibroblasts, the receptor for low density lipoprotein (LDL) is synthesized as a precursor of apparent Mr = 120,000 which is converted to a mature form of apparent Mr = 160,000, as determined by migration in sodium dodecyl sulfate (SDS)-polyacrylamide gels (Tolleshaug, H., Goldstein, J. L., Schneider, W. J., and Brown, M. S. (1982) Cell 30, 715-724). The current paper describes the relationship of N- and O-glycosylation to this post-translational modification. Oligosaccharides were analyzed from precursor and mature forms of LDL receptors that had been immunoprecipitated from cells grown in media containing radioactive sugars. In human epidermoid carcinoma A-431 cells, the receptor precursor appears to contain one N-linked high mannose oligosaccharide and approximately 6-9 N-acetylgalactosamine residues linked 0-glycosidically to Ser/Thr residues. In the mature receptor, the O-linked oligosaccharides are mono- and disialylated species having the core structure of galactose leads to N-acetylgalactosamine leads to Ser/Thr. The single N-linked oligosaccharide of the mature receptor can either be a tri- or tetraantennary complex-type species. Similar results were obtained with normal human fibroblast receptor except that the O-linked oligosaccharides on the precursor are neutral disaccharides, of which one component is GalNAc and the N-linked complex type unit on the mature receptor is less branched. Since the addition of GalNAc residues to Ser/Thr residues precedes the conversion of N-linked high mannose-type oligosaccharides to complex-type structures, the transfer of N-acetylgalactosamine must occur prior to the entry of glycoproteins into the region of the Golgi containing the processing enzyme alpha-mannosidase I. We also studied the receptor from tunicamycin-treated cells and after treatment with neuraminidase. In addition, we analyzed the receptor synthesized by a lectin-resistant clone of Chines hamster ovary cells that is deficient in adding galactose

22/7, JA, LA/17 05106747 84030747

Supplementary factors required for serum-free culture of rat kidney cells of line NRK-49F.

Bradshaw GL; Dubes GR

In Vitro Oct 1983, 19 (10) p735-42, ISSN 0073-5655 Journal Code: 6HD

Languages: ENGLISH

Journal Announcement: 8402

Factors required as supplements to basal tissue culture medium for the multiplication of cells of the cloned rat fibroblast line called normal rat kidney 49F (NRK-49F) were identified as epidermal growth factor, fibronectin, insulin, and retinoic acid. The requirement for fibronectin was manifested on a clean glass surface but not on the polystyrene plastic surface tested. This set of required factors differs substantially from the factor sets required by the Madin-Darby canine kidney (MDCK) and LLC-PK1 pig kidney lines of epithelial cells and the baby hamster kidney 21 (BHK-21) line of fibroblasts. The serum-free medium supplemented with the four factors supported rapid growth of NRK-49F cells when the initial cell population density was about 8,000 cells/cm2 or greater. At lower initial densities, cell multiplication was markedly increased by adding serum-free medium that had been conditioned by NRK-49F cells. Cell growth rate in the defined serum-free medium stayed high through two serial passages but declined in the third serial passage unless the cell-conditioned medium was added.

22/7,JA,LA/18

05102233 84026233

Hybrid, sialylated N-glycans accumulate in a ricin-resistant mutant of baby hamster kidney BHK cells.

Hughes RC; Mills G; Stojanovic D

Carbohydr Res Aug 16 1983, 120 p215-34, ISSN 0008-6215

Journal Code: CNY Languages: ENGLISH

Journal Announcement: 8402

Glycoproteins synthesized in a ricin-resistant mutant of BHK cells, clone RICR21, were labelled by growth of the cells in radioactive D-mannose, D-glucosamine, or L-fucose. Glycopeptides obtained from disrupted cells by exhaustive digestion with Pronase were fractionated into components binding concanavalin A-Sepharose and nonbinding components. The binding components eluted with methyl alpha-D-mannopyranoside were separated by gel filtration on Bio-Gel P-4 into two main subfractions: an oligomannosidic fraction that was susceptible to Jack bean alpha-D-mannosidase and a fraction that became totally degraded only in the additional presence of neuraminidase, beta-D-galactosidase, and N-acetyl-beta-D-glucosaminidase. Further analysis of the latter fraction by exoglycosidase digestion together with consideration of the known pathways for the biosynthesis of asparagine-linked sugar chains of glycoproteins was consistent with a "hybrid" structure containing a NeuAc leads to Gal leads to GlcNAc sequence linked to the alpha-D-mannosyl-(1 leads to 3) residue of the core sequence, and a terminal alpha-D-mannosyl group linked to the alpha-(1 leads to 6) branch of the core sequence. The hybrid fraction was labelled after growth of the cells in radioactive L-fucose and was adsorbed to a lentil lectin-Sepharose column indicating the presence of core fucosylation. The structure represented about 30-35% of the total cellular glycopeptides of RICR21 cells and was not present in the alecopeptides of ricin-sensitive BHK cells. Conversely, amuble-branched (biantennary) complex N-glycans, a prominent constituent of BHK cell glycoproteins, were absent in RICR21 cells, and analysis of the nonbinding fraction obtained from concanavalin A-Sepharose indicated that triple- and quadruple-branched (tri- and tetra-antennary), complex N-glycans present in normal BHK cell glycoproteins were also absent.

22/7, JA, LA/19 05067018 83300018

Amphotericin B selection of mutant Chinese hamster cells with defects in the receptor-mediated endocytosis of low density lipoprotein and cholesterol biosynthesis.

Krieger M; Martin J; Segal M; Kingsley D

Proc Natl Acad Sci USA Sep 1983, 80 (18) p5607-11, ISSN 0027-8424 Journal Code: PV3

Contract/Grant No.: GM30243

Languages: ENGLISH

Journal Announcement: 8312

This paper describes a rapid and efficient two-step procedure for the isolation of mutant cells with defects in receptor-mediated endocytosis. The procedure takes advantage of two fungal metabolites, compactin (ML236B), a potent inhibitor of cholesterol biosynthesis, and amphotericin B, a polyene antibiotic that forms toxic complexes with sterols in membranes. Mutagen-treated Chinese hamster ovary cells were preincubated overnight in a medium containing mevalonate, low density lipoprotein (LDL), and compactin (Mev/LDL/Com). At the end of the preincubation period, wild-type cells were cholesterol replete while mutant cells that could not utilize the cholesterol in LDL were cholesterol deficient. Subsequent

incubation with amphotericin B for 6 hr killed most of the wild-type cells. After a second round of Mev/LDL/Com-amphotericin B selection, endocytosis-defective clones appeared at a frequency of approximately equal to 2.6 X 10(-5). Some of these clones expressed LDL receptor-defective phenotypes and fell into one of two previously defined classes of mutation. Sensitivity of the mutants to infection by vesicular stomatitis virus suggested that the mutations do not disrupt the coated pit-coated vesicle pathway of endocytosis. Minor modifications in the Mev/LDL/Com-amphotericin B selection permit the isolation of cholesterol auxotrophs and might allow the isolation of conditional-lethal mutations. Because LDL can be coupled to ligands that bind to receptors other than the LDL receptor, Mev/LDL/Com-amphotericin B selection may permit the isolation of mutant cells with defects that specifically disrupt other endocytic pathways.

22/7, JA, LA/20 05061700 83294700

Synthesis of hepatitis B surface antigen in mammalian cells: expression of the entire gene and the coding region.

Laub 0; Rall L8; Truett M; Shaul Y; Standring DN; Valenzuela P; Rutter WJ J Virol Oct 1983, 48 (1) p271-80, ISSN 0022-538X Journal Code: KCV Languages: ENGLISH

Journal Announcement: 8312

We have constructed two simian virus 40 early replacement recombinants that have the coding sequences for hepatitis 8 virus surface antigen (HBsAg). One construction, LSV-HBsAg, has the coding region for HBsAg but the portion encoding the putative pre-surface antigen leader. Transformed monkey kidney cells (COS) infected with this recombinant express large quantities of the characteristic partially glycosylated HBsAg molecule, which are assembled into 22-nm particles that appear similar to those produced by human liver cells infected with hepatitis 8 virus. This result indicates that the pre-surface antigen sequences are not required for the synthesis of HBsAg or its assembly into particulate structures. The second recombinant, LSV-HBpresAg, has the entire surface antigen gene, including the putative promoter and pre-surface antigen region. COS cells infected with this recombinant plasmid produce 40- to 50-fold less HBsAg than those infected with the LSV-HBsAg recombinant plasmid. RNA mapping studies suggest that the transcription of the HBsAg gene is initiated at more than one site, or alternatively, that RNA splicing of transcripts occurs in the pre-surface antigen region.

22/7, JA, LA/21 05040674 83273674

Expression and characterization of the product of a human immune interferon cDNA gene in Chinese hamster ovary cells.

Scahill, SJ; Devos R; Van der Heyden J; Fiers W

Proc Natl Acad Sci US# Aug 1983, 80 (15) p4654-8, ISSN 0027-8424 Journal Code: PV3

Languages: ENGLISH

Journal Announcement: 8311

Cotransformation with two plasmids, one [pSV2-IFN-gamma] encoding human immune interferon (Hu IfN-gamma) and the other [pAdD26SV(A)-3] encoding mouse dihydrofolate reductase, has been used to establish Chinese hamster ovary (CHO) cell lines that secrete high levels of Hu IFN-gamma. Hu IFN-gamma production by the transformed CHO cell lines E-10B and E-10C reached approximately 50,000 units/ml of culture medium, which compares favorably with that of stimulated lymphocytes. Furthermore, as the Hu IFN-gamma cDNA gene used in these studies is under the transcriptional control of the simian virus 40 early promoter, Hu IFN-gamma production is

X