

# CITATION REPORT

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**Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase**

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#	Paper	IF	Citations
2048	Molecular characterization of beta-globin gene mutations in patients with beta-thalassaemia intermedia in south China. <b>1988</b> , 70, 357-61		16
2047	Rapid and non-radioactive prenatal diagnosis of beta thalassaemia and sickle cell disease: application of the polymerase chain reaction (PCR). <b>1988</b> , 70, 455-8		43
2046	Tight linkage between myotonic dystrophy and apolipoprotein E genes revealed with allele-specific oligonucleotides. <b>1988</b> , 80, 49-52		13
2045	Direct ribosomal RNA sequencing: Optimization of extraction and sequencing methods for work with higher plants. <b>1988</b> , 6, 175-192		81
2044	Human genetic disease--a new series in TIG. <b>1988</b> , 4, 123-4		2
2043	Mitochondrial DNA sequences from a 7000-year old brain. <b>1988</b> , 16, 9775-87		374
2042	Developmental expression of PDGF, TGF-alpha, and TGF-beta genes in preimplantation mouse embryos. <i>Science</i> , <b>1988</b> , 241, 1823-5	33.3	634
2041	A new look at the shared epitope hypothesis. <b>1988</b> , 85, 20-2		38
2040	Wound macrophages express TGF-alpha and other growth factors in vivo: analysis by mRNA phenotyping. <i>Science</i> , <b>1988</b> , 241, 708-12	33.3	1008
2039	Molecular analysis of hepatitis B virus infection. <b>1988</b> , 2, 278-87		1
2038	A DNA polymerase from a thermoacidophilic archaebacterium: evolutionary and technological interests. <b>1988</b> , 951, 261-7		8
2037	Diagnostic DNA amplification no respite for the elusive parasite. <b>1988</b> , 4, 293-5		17
2036	An altered pattern of cross-resistance in multidrug-resistant human cells results from spontaneous mutations in the <i>mdr1</i> (P-glycoprotein) gene. <b>1988</b> , 53, 519-29		414
2035	Deletion screening of the Duchenne muscular dystrophy locus via multiplex DNA amplification. <b>1988</b> , 16, 11141-56		990
2034	Characterization of cytochrome c oxidase III transcripts that are edited only in the 3' region. <b>1988</b> , 55, 267-72		108
2033	Activation of c-myc by woodchuck hepatitis virus insertion in hepatocellular carcinoma. <b>1988</b> , 55, 627-35		172
2032	A general method of in vitro preparation and specific mutagenesis of DNA fragments: study of protein and DNA interactions. <b>1988</b> , 16, 7351-67		2306

2031	Amplification of human minisatellites by the polymerase chain reaction: towards DNA fingerprinting of single cells. <b>1988</b> , 16, 10953-71		421
2030	Nucleic acids or immunoglobulins: which are the molecular probes of the future?. <b>1988</b> , 2, 87-96		23
2029	DNA diagnostics--molecular techniques and automation. <i>Science</i> , <b>1988</b> , 242, 229-37	33:3	251
2028	Structure-independent DNA amplification by PCR using 7-deaza-2'-deoxyguanosine. <b>1988</b> , 16, 9869		122
2027	Molecular cloning of two types of GAP complementary DNA from human placenta. <i>Science</i> , <b>1988</b> , 242, 1697-700	33:3	468
2026	Insulin resistance by unprocessed insulin proreceptors point mutation at the cleavage site. <b>1988</b> , 153, 657-63		49
2025	Beta-thalassemia due to a T---A mutation within the ATA box. <b>1988</b> , 153, 741-7		34
2024	The characterization of enzymatically amplified eukaryotic 16S-like rRNA-coding regions. <b>1988</b> , 71, 491-9		2184
2023	Diagnosis of sickle cell anemia and beta-thalassemia with enzymatically amplified DNA and nonradioactive allele-specific oligonucleotide probes. <b>1988</b> , 319, 537-41		280
2022	Transmission of hepatitis B from hepatitis-B-seronegative subjects. <b>1988</b> , 2, 1273-6		240
2021	Microbial DNA diagnostic technology. <b>1988</b> , 6, 683-95		6
2020	Prenatal diagnosis of alpha-1-antitrypsin deficiency using polymerase chain reaction. <b>1988</b> , 1, 763-4		26
2019	Simultaneous analysis of multiple polymorphic loci using amplified sequence polymorphisms (ASPs). <b>1988</b> , 2, 273-9		40
2018	False-positive results and the polymerase chain reaction. <b>1988</b> , 2, 679		98
2017	Prenatal diagnosis of cystic fibrosis by DNA amplification for detection of KM-19 polymorphism. <b>1988</b> , 2, 102		76
2016	Locus-specific vector/primer systems for rapid cloning of allelic variants. <b>1988</b> , 71, 193-9		2
2015	Direct detection of HIV RNA expression in seropositive subjects. <b>1988</b> , 2, 596-9		121
2014	undulated, a mutation affecting the development of the mouse skeleton, has a point mutation in the paired box of Pax 1. <b>1988</b> , 55, 531-5		288

2013	Identification of HIV-infected seronegative individuals by a direct diagnostic test based on hybridisation to amplified viral DNA. <b>1988</b> , 2, 418-21	154
2012	Enzymatic amplification and characterization of large DNA fragments from genomic DNA. <b>1988</b> , 71, 211-6	16
2011	Large deletions result from breakage and healing of <i>P. falciparum</i> chromosomes. <b>1988</b> , 55, 869-74	172
2010	Limited diversity of gamma delta antigen receptor genes of Thy-1+ dendritic epidermal cells. <b>1988</b> , 55, 837-47	495
2009	Detection of HIV-1 RNA sequences by in vitro DNA amplification. <b>1988</b> , 16, 4165	86
2008	A procedure for in vitro amplification of DNA segments that lie outside the boundaries of known sequences. <b>1988</b> , 16, 8186	634
2007	Polymerase chain reaction amplification of rhinovirus nucleic acids from clinical material. <b>1988</b> , 16, 9346	66
2006	A sensitive non-radioactive PCR-RFLP analysis for detecting point mutations at 12th codon of oncogene c-Ha-ras in DNAs of gastric cancer. <b>1988</b> , 16, 6231	38
2005	Diagnosis of alpha 1-antitrypsin deficiency by enzymatic amplification of human genomic DNA and direct sequencing of polymerase chain reaction products. <b>1988</b> , 16, 8233-43	92
2004	Highly degenerate, inosine-containing primers specifically amplify rare cDNA using the polymerase chain reaction. <b>1988</b> , 16, 10932	86
2003	In situ transcription: specific synthesis of complementary DNA in fixed tissue sections. <i>Science</i> , <b>1988</b> , 240, 1661-4	33.3 105
2002	Distal CCAAT box deletion in the A gamma globin gene of two black adolescents with elevated fetal A gamma globin. <b>1988</b> , 16, 10635-42	50
2001	Recombinant fragment assay for gene targetting based on the polymerase chain reaction. <b>1988</b> , 16, 8887-903	192
2000	Detection of an alteration in the insulin-receptor gene in a patient with insulin resistance, acanthosis nigricans, and the polycystic ovary syndrome (type A insulin resistance). <b>1988</b> , 319, 1526-9	139
1999	A potent inhibitor of Taq polymerase copurifies with human genomic DNA. <b>1988</b> , 16, 10355	118
1998	Polymerase chain reaction automated at low cost. <b>1988</b> , 16, 5687-8	20
1997	Enzymatic amplification of specific cDNA inserts from lambda gt11 libraries. <b>1988</b> , 16, 8718	46
1996	Detection of human immunodeficiency virus (HIV) infection in formalin-fixed, paraffin-embedded tissues by DNA amplification. <b>1988</b> , 16, 8191	27

1995	Truncated variants of apolipoprotein B cause hypobetalipoproteinaemia. <b>1988</b> , 16, 8361-75	99
1994	Quantification of polymerase chain reaction products by affinity-based hybrid collection. <b>1988</b> , 16, 11327-38	121
1993	Generation of labeled RNA probes from enzymatically amplified DNA templates. <b>1988</b> , 16, 11836	4
1992	Direct sequencing of polymerase chain reaction amplified DNA fragments through the incorporation of deoxynucleoside alpha-thiotriphosphates. <b>1988</b> , 16, 9947-59	74
1991	Investigation of mycobacteria in Crohn's disease tissue by Southern blotting and DNA hybridisation with cloned mycobacterial genomic DNA probes from a Crohn's disease isolated mycobacteria. <b>1988</b> , 29, 1222-8	27
1990	Human T-cell-receptor delta chain: genomic organization, diversity, and expression in populations of cells. <b>1988</b> , 85, 9714-8	113
1989	Analysis of RAS oncogene mutations in human lymphoid malignancies. <b>1988</b> , 85, 9268-72	160
1988	A sensitive method for the identification of uncharacterized viruses related to known virus groups: hepadnavirus model system. <b>1988</b> , 85, 6977-81	78
1987	Multiple genes encode nuclear factor 1-like proteins that bind to the promoter for 3-hydroxy-3-methylglutaryl-coenzyme A reductase. <b>1988</b> , 85, 8963-7	170
1986	Rapid production of full-length cDNAs from rare transcripts: amplification using a single gene-specific oligonucleotide primer. <b>1988</b> , 85, 8998-9002	4278
1985	Amino acid changes linked to pyrimethamine resistance in the dihydrofolate reductase-thymidylate synthase gene of Plasmodium falciparum. <b>1988</b> , 85, 9109-13	380
1984	DNA sequencing with Thermus aquaticus DNA polymerase and direct sequencing of polymerase chain reaction-amplified DNA. <b>1988</b> , 85, 9436-40	637
1983	Generation of single-stranded DNA by the polymerase chain reaction and its application to direct sequencing of the HLA-DQA locus. <b>1988</b> , 85, 7652-6	1305
1982	Evidence that a point mutation in dihydrofolate reductase-thymidylate synthase confers resistance to pyrimethamine in falciparum malaria. <b>1988</b> , 85, 9114-8	488
1981	Low plasma cholesterol levels caused by a short deletion in the apolipoprotein B gene. <i>Science</i> , <b>1988</b> , 241, 591-3	333 82
1980	Sequenzanalyse von DNA. <b>1988</b> , 36, 1196-1207	3
1979	PCR????????????????????HBVDNA?????????. <b>1988</b> , 29, 1662-1662	
1978	Thalassemia: molecular pathology and management. <b>1988</b> , 296, 308-21	3

1977	A missense mutation in the human liver/bone/kidney alkaline phosphatase gene causing a lethal form of hypophosphatasia. <b>1988</b> , 85, 7666-9	285
1976	Aspartic acid at position 57 of the HLA-DQ beta chain protects against type I diabetes: a family study. <b>1988</b> , 85, 8111-5	332
1975	Diagnosis of chronic myeloid and acute lymphocytic leukemias by detection of leukemia-specific mRNA sequences amplified in vitro. <b>1988</b> , 85, 5698-702	548
1974	Evolution of B-cell malignancy: pre-B-cell leukemia resulting from MYC activation in a B-cell neoplasm with a rearranged BCL2 gene. <b>1988</b> , 85, 8548-52	93
1973	Localization of Bacillus subtilis sacU(Hy) mutations to two linked genes with similarities to the conserved procaryotic family of two-component signalling systems. <b>1988</b> , 170, 5102-9	132
1972	In Situ Hybridization Approaches to Human Neurological Disease. <b>1989</b> , 183-196	3
1971	Persistence of cytomegalovirus in peripheral blood from blood donors. <b>1989</b> , 299, 1164-5	6
1970	Lineage Analysis in the Vertebrate Nervous System by Retrovirus-Mediated Gene Transfer. <b>1989</b> , 1, 367-392	8
1969	Amplification of bacterial genomic DNA by the polymerase chain reaction and direct sequencing after asymmetric amplification: application to the study of periplasmic permeases. <b>1989</b> , 171, 1602-8	49
1968	Nucleotide sequence of both reciprocal translocation junction regions in a patient with Ph positive acute lymphoblastic leukaemia, with a breakpoint within the first intron of the BCR gene. <b>1989</b> , 17, 1-10	196
1967	Isolating DNA segments from cloned libraries without screening by affinity selection of PCR products. <b>1989</b> , 17, 5859-60	6
1966	Implausibility of an aetiological association between cytomegalovirus and Kaposi's sarcoma shown by four techniques. <b>1989</b> , 42, 128-31	25
1965	Nonsense mutations in the dihydrofolate reductase gene affect RNA processing. <b>1989</b> , 9, 2868-80	377
1964	Alternative splicing in the human cytochrome P450IIB6 gene generates a high level of aberrant messages. <b>1989</b> , 17, 8241-55	27
1963	In vitro amplification of hepatitis B virus sequences from liver tumour DNA and from paraffin wax embedded tissues using the polymerase chain reaction. <b>1989</b> , 42, 840-6	58
1962	Genetic studies on a new deficiency gene (PI*Ztun) at the PI locus. <b>1989</b> , 26, 744-9	13
1961	'Sticky feet'-directed mutagenesis and its application to swapping antibody domains. <b>1989</b> , 17, 10163-70	64
1960	Detection of novel genetic markers by mismatch analysis. <b>1989</b> , 17, 5961-71	37

1959	Absolute mRNA quantification using the polymerase chain reaction (PCR). A novel approach by a PCR aided transcript titration assay (PATTY). <b>1989</b> , 17, 9437-46	607
1958	Rapid carrier and prenatal diagnosis of Duchenne and Becker muscular dystrophy. <b>1989</b> , 17, 811	44
1957	Oncogenic point mutations in the human retinoblastoma gene: their application to genetic counseling. <b>1989</b> , 321, 1689-95	252
1956	Comparative analysis of the HTLV-I Rex and HIV-1 Rev trans-regulatory proteins and their RNA response elements. <b>1989</b> , 3, 1534-44	168
1955	Molecular genetic analysis of 178 I-Abm12-reactive T cells. <b>1989</b> , 169, 115-33	74
1954	The polymerase chain reaction. <b>1989</b> , 42, 673-6	10
1953	Developmental control of promoter-specific factors responsible for the embryonic activation and inactivation of the sea urchin early histone H3 gene. <b>1989</b> , 3, 973-85	43
1952	<i>Saccharomyces cerevisiae</i> and <i>Schizosaccharomyces pombe</i> contain a homologue to the 54-kD subunit of the signal recognition particle that in <i>S. cerevisiae</i> is essential for growth. <b>1989</b> , 109, 3223-30	107
1951	Ras oncogene mutation in multiple myeloma. <b>1989</b> , 170, 1715-25	146
1950	A simple method for direct cloning and sequencing cDNA by the use of a single specific oligonucleotide and oligo(dT) in a polymerase chain reaction (PCR). <b>1989</b> , 17, 453	30
1949	The mouse homologue of hst/k-FGF: sequence, genome organization and location relative to int-2. <b>1989</b> , 17, 4037-45	49
1948	Detection of parvovirus B19 DNA in fetal tissues by in situ hybridisation and polymerase chain reaction. <b>1989</b> , 42, 525-30	56
1947	Construction of cDNA libraries from small numbers of cells using sequence independent primers. <b>1989</b> , 17, 1269	17
1946	Human antithrombin II (AT3) gene length polymorphism revealed by the polymerase chain reaction. <b>1989</b> , 17, 6433	15
1945	The PreA4(695) precursor protein of Alzheimer's disease A4 amyloid is encoded by 16 exons. <b>1989</b> , 17, 517-22	112
1944	Genes for extracellular-matrix-degrading metalloproteinases and their inhibitor, TIMP, are expressed during early mammalian development. <b>1989</b> , 3, 848-59	231
1943	Use of labeled primers in polymerase chain reaction (LP-PCR) for a rapid detection of the product. <b>1989</b> , 17, 3605	38
1942	Measurement of human immunodeficiency virus load and its relation to disease progression. <b>1989</b> , 5, 115-9	24

1941	Approaches for Monitoring and Containing Genetically Engineered Microorganisms Released into the Environment. <b>1989</b> , 6, 135-144		5
1940	Hb Monroe or alpha 2 beta 230(B12)Arg----Thr, a variant associated with beta-thalassemia due to A G----C substitution adjacent to the donor splice site of the first intron. <b>1989</b> , 13, 67-74		37
1939	Human diabetes associated with a mutation in the tyrosine kinase domain of the insulin receptor. <i>Science</i> , <b>1989</b> , 245, 66-8	33.3	194
1938	Developmental regulation of P-45017 alpha gene expression in fetal bovine adrenal. <b>1989</b> , 15, 17-29		5
1937	Specificity of polymerase chain amplification reactions for human immunodeficiency virus type 1 DNA sequences. <b>1989</b> , 5, 87-95		20
1936	A common language for physical mapping of the human genome. <i>Science</i> , <b>1989</b> , 245, 1434-5	33.3	746
1935	Sequence and characteristics of IS900, an insertion element identified in a human Crohn's disease isolate of Mycobacterium paratuberculosis. <b>1989</b> , 17, 9063-73		401
1934	Precise gene fusion by PCR. <b>1989</b> , 17, 4895		256
1933	Selective amplification and cloning of four new members of the G protein-coupled receptor family. <i>Science</i> , <b>1989</b> , 244, 569-72	33.3	609
1932	Multiple mutations in HIV-1 reverse transcriptase confer high-level resistance to zidovudine (AZT). <i>Science</i> , <b>1989</b> , 246, 1155-8	33.3	1052
1931	A method for the rapid screening of human blood samples for the presence of HIV-1 sequences: the probe-shift assay. <b>1989</b> , 5, 345-54		21
1930	Characterization of a novel insertion of the macrolides-lincosamides-streptogramin B resistance transposon Tn554 in methicillin-resistant Staphylococcus aureus and Staphylococcus epidermidis. <b>1989</b> , 33, 541-50		23
1929	Primary structure analysis of an integral membrane glycoprotein of the nuclear pore. <b>1989</b> , 108, 2083-92		212
1928	Polymerase chain reaction: replication errors and reliability of gene diagnosis. <b>1989</b> , 17, 2197-201		96
1927	Biotechnology: The Golden Age. <b>1989</b> , 34, 263-306		13
1926	Transformation of Soybean (Glycine max) by Infecting Germinating Seeds with Agrobacterium tumefaciens. <b>1989</b> , 91, 1212-8		119
1925	Hb Chad or alpha 223(B4)Glu----Lys beta 2 observed in members of a Surinam family in association with alpha-thalassemia-2 and with Hb S. <b>1989</b> , 13, 543-56		11
1924	Studies of beta-thalassemia mutations in families living in three provinces in southern China. <b>1989</b> , 13, 585-95		21



1923	Identification of a variant form of the human estrogen receptor with an amino acid replacement. <b>1989</b> , 17, 8364		58
1922	Purification, cloning, and expression of ciliary neurotrophic factor (CNTF). <i>Science</i> , <b>1989</b> , 246, 1023-5	33-3	397
1921	A point mutation G----A in exon 12 of the porphobilinogen deaminase gene results in exon skipping and is responsible for acute intermittent porphyria. <b>1989</b> , 17, 6637-49		117
1920	Molecular Diagnosis of the Philadelphia Chromosome in Acute Lymphoblastic Leukemia. <b>1989</b> , 1, 3-10		12
1919	High resolution deletion breakpoint mapping in the DMD gene by whole cosmid hybridization. <b>1989</b> , 17, 5611-21		56
1918	Direct sequencing from low-melt agarose with Sequenase. <b>1989</b> , 17, 5864		101
1917	Human papillomaviruses: are we ready to type?. <b>1989</b> , 2, 166-90		89
1916	Detection of single DNA base differences by competitive oligonucleotide priming. <b>1989</b> , 17, 2437-48		160
1915	Regulation of expression of the c-sis proto-oncogene. <b>1989</b> , 17, 4101-15		36
1914	MspI RFLP in intron 8 of the human protein C gene. <b>1989</b> , 17, 8401		3
1913	Sequence and length polymorphism of a major malaria vaccine candidate analysed following DNA amplification. <b>1989</b> , 17, 1774		13
1912	The cholinergic neuronal differentiation factor from heart cells is identical to leukemia inhibitory factor. <i>Science</i> , <b>1989</b> , 246, 1412-6	33-3	532
1911	Primary structure of the <i>Chlorella vulgaris</i> small subunit ribosomal RNA coding region. <b>1989</b> , 17, 1255		21
1910	Multiple primer pairs for the detection of HTLV-I by PCR. <b>1989</b> , 17, 2142		21
1909	The molecular basis of muscular dystrophy in the mdx mouse: a point mutation. <i>Science</i> , <b>1989</b> , 244, 1578-80	33-3	1038
1908	Direct genomic fluorescent on-line sequencing and analysis using in vitro amplification of DNA. <b>1989</b> , 17, 2517-27		31
1907	Selection for B cells with productive IgL gene rearrangements occurs in the bursa of Fabricius during chicken embryonic development. <b>1989</b> , 3, 838-47		88
1906	Polymerase chain reaction with single-sided specificity: analysis of T cell receptor delta chain. <i>Science</i> , <b>1989</b> , 243, 217-20	33-3	641

1905	Deletions of muscle mitochondrial DNA in mitochondrial myopathies: sequence analysis and possible mechanisms. <b>1989</b> , 17, 4465-9		86
1904	Mutation detection using nucleotide analogs that alter electrophoretic mobility. <b>1989</b> , 17, 7779-84		29
1903	Increased efficiency of the Taq polymerase catalyzed polymerase chain reaction. <b>1989</b> , 17, 819		28
1902	Amplification of a gene related to mammalian <i>mdr</i> genes in drug-resistant <i>Plasmodium falciparum</i> . <i>Science</i> , <b>1989</b> , 244, 1184-6	33.3	416
1901	An efficient strategy for cloning 5' extremities of rare transcripts permits isolation of multiple 5'-untranslated regions of rat tryptophan hydroxylase mRNA. <b>1989</b> , 17, 6439-48		39
1900	Detection of HIV genome in HIV antibody negative men. <b>1989</b> , 65, 293-9		2
1899	Whole genome PCR: application to the identification of sequences bound by gene regulatory proteins. <b>1989</b> , 17, 3645-53		181
1898	The XLR sequence family: dispersion on the X and Y chromosomes of a large set of closely related sequences, most of which are pseudogenes. <b>1989</b> , 17, 9871-88		28
1897	Control of gene expression by artificial introns in <i>Saccharomyces cerevisiae</i> . <i>Science</i> , <b>1989</b> , 244, 1346-8	33.3	48
1896	DNA of human papillomavirus type 16 in dysplastic and malignant lesions of the conjunctiva and cornea. <b>1989</b> , 320, 1442-6		150
1895	Ribonuclease A cleavage combined with the polymerase chain reaction for detection of the Z mutation of the alpha-1-antitrypsin gene. <b>1989</b> , 1, 329-34		8
1894	Chromosome mapping and expression of a putative testis-determining gene in mouse. <i>Science</i> , <b>1989</b> , 243, 80-3	33.3	138
1893	Lineage-specific requirement of <i>c-abl</i> function in normal hematopoiesis. <i>Science</i> , <b>1989</b> , 245, 1107-10	33.3	62
1892	G1/S transition in normal human T-lymphocytes requires the nuclear protein encoded by <i>c-myb</i> . <i>Science</i> , <b>1989</b> , 245, 180-3	33.3	198
1891	The alpha 1-antitrypsin gene and its mutations. Clinical consequences and strategies for therapy. <b>1989</b> , 95, 196-208		191
1890	Access to a messenger RNA sequence or its protein product is not limited by tissue or species specificity. <i>Science</i> , <b>1989</b> , 244, 331-4	33.3	301
1889	Laron dwarfism and mutations of the growth hormone-receptor gene. <b>1989</b> , 321, 989-95		250
1888	V beta-specific stimulation of human T cells by staphylococcal toxins. <i>Science</i> , <b>1989</b> , 244, 811-3	33.3	644

1887	Tau consists of a set of proteins with repeated C-terminal microtubule-binding domains and variable N-terminal domains. <b>1989</b> , 9, 1381-8	457
1886	Molecular cloning of the thyrotropin receptor. <i>Science</i> , <b>1989</b> , 246, 1620-2	33.3 489
1885	Mutations in the RB1 gene and their effects on transcription. <b>1989</b> , 9, 4596-604	137
1884	Simultaneous amplification of multiple DNA fragments by polymerase chain reaction in the analysis of transgenic plants and their progeny. <b>1989</b> , 7, 116-128	160
1883	Prenatal diagnosis of inherited hemoglobinopathies. <b>1989</b> , 56, 707-17	3
1882	Construction of a shuttle vector containing a single O6-methylguanine: a probe for mutagenesis in mammalian cells. <b>1989</b> , 220, 93-100	10
1881	Molecular analysis of spontaneous mutations at the gpt locus in Chinese hamster ovary (AS52) cells. <b>1989</b> , 220, 241-53	114
1880	Use of data from bacteria to interpret data on DNA damage processing in mammalian cells. <b>1989</b> , 220, 269-78	6
1879	DNA sequence determination of gamma-radiation-induced mutations of the hamster apt locus. <b>1989</b> , 227, 97-102	47
1878	Identification of Plasmodium falciparum-infected mosquitoes using a probe containing repetitive DNA. <b>1989</b> , 32, 105-12	24
1877	Sensitive detection and schizodeme classification of Trypanosoma cruzi cells by amplification of kinetoplast minicircle DNA sequences: use in diagnosis of Chagas' disease. <b>1989</b> , 33, 205-14	231
1876	Improved characterization of Theileria parva isolates using the polymerase chain reaction and oligonucleotide probes. <b>1989</b> , 35, 137-47	35
1875	Minimal variation in a vaccine candidate from the sexual stage of Plasmodium falciparum. <b>1989</b> , 32, 101-3	60
1874	Wild isolates of Plasmodium falciparum show extensive polymorphism in T cell epitopes of the circumsporozoite protein. <b>1989</b> , 37, 275-80	98
1873	Structure of the apical membrane antigen I (AMA-1) of Plasmodium chabaudi. <b>1989</b> , 37, 281-3	60
1872	Mutagenesis of phi X174 am3 cs70 incorporated into the genome of mouse L-cells. <b>1989</b> , 213, 125-34	14
1871	The genetic consequences of DNA precursor pool imbalance: sequence analysis of mutations induced by excess thymidine at the hamster apt locus. <b>1989</b> , 214, 201-6	35
1870	Unidirectional deletion and linker scan analysis of the late promoter of the human papovavirus BK. <b>1989</b> , 169, 172-81	13

1869	Sequence variation of the P gene among mumps virus strains. <b>1989</b> , 172, 374-6	39
1868	Determination of the coding capacity of the M genome segment of nephropathia epidemica virus strain H $\Pi$ n $\Pi$ B1 by molecular cloning and nucleotide sequence analysis. <b>1989</b> , 172, 498-505	65
1867	Identification of an enhancer-type sequence that is responsive to Z and R trans-activators of Epstein-Barr virus. <b>1989</b> , 172, 655-8	15
1866	The completed sequence of lymphocytic choriomeningitis virus reveals a unique RNA structure and a gene for a zinc finger protein. <b>1989</b> , 173, 1-10	171
1865	Genetic organization of gibbon ape leukemia virus. <b>1989</b> , 173, 205-13	76
1864	Genome sequence of tick-borne encephalitis virus (Western subtype) and comparative analysis of nonstructural proteins with other flaviviruses. <b>1989</b> , 173, 291-301	112
1863	Analysis of the function of viral protein X (VPX) of HIV-2. <b>1989</b> , 173, 624-30	42
1862	Glucocorticoid-enhanced neoplastic transformation of human keratinocytes by human papillomavirus type 16 and an activated ras oncogene. <b>1989</b> , 173, 767-71	134
1861	Comparison of the three large polymerase proteins of influenza A, B, and C viruses. <b>1989</b> , 171, 458-66	59
1860	The molecular biology of hepatitis B virus. <b>1989</b> , 5, 154-8	27
1859	The polymerase chain reaction. <b>1989</b> , 5, 185-9	222
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1653	Beta interferon subtype 1 induction by tumor necrosis factor. <b>1989</b> , 9, 3037-42	85
1652	Embryonal carcinoma cells express Qa and Tla class I genes of the major histocompatibility complex. <b>1989</b> , 86, 5084-8	11
1651	Site-specific mutagenesis by O6-alkylguanines located in the chromosomes of mammalian cells: influence of the mammalian O6-alkylguanine-DNA alkyltransferase. <b>1989</b> , 86, 8620-4	120
1650	Isolation and expression of the <i>Pneumocystis carinii</i> dihydrofolate reductase gene. <b>1989</b> , 86, 8625-9	127
1649	Allelic sequence variations in the hypervariable region of a T-cell receptor beta chain: correlation with restriction fragment length polymorphism in human families and populations. <b>1989</b> , 86, 9422-6	59
1648	CpG island clones from a deletion encompassing the gene for adenomatous polyposis coli. <b>1989</b> , 86, 10118-22	31
1647	Identification of the structural mutation responsible for the dibucaine-resistant (atypical) variant form of human serum cholinesterase. <b>1989</b> , 86, 953-7	156
1646	Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich hybridization format. <b>1989</b> , 86, 1173-7	206
1645	Two putative protein-tyrosine kinases identified by application of the polymerase chain reaction. <b>1989</b> , 86, 1603-7	355
1644	Principles of DNA cloning. <b>1989</b> , 299, 1019-22	2
1643	Biochemie und Molekularbiologie 1988. <b>1989</b> , 37, 158-171	
1642	Developmentally regulated use of alternative promoters creates a novel platelet-derived growth factor receptor transcript in mouse teratocarcinoma and embryonic stem cells. <b>1989</b> , 9, 4563-7	42
1641	Homologous plasmid recombination is elevated in immortally transformed cells. <b>1989</b> , 9, 4009-17	49
1640	Horizontal transfer of penicillin-binding protein genes in penicillin-resistant clinical isolates of <i>Streptococcus pneumoniae</i> . <b>1989</b> , 86, 8842-6	345
1639	Rapid typing of tandemly repeated hypervariable loci by the polymerase chain reaction: application to the apolipoprotein B 3' hypervariable region. <b>1989</b> , 86, 212-6	394
1638	Cloning immunoglobulin variable domains for expression by the polymerase chain reaction. <b>1989</b> , 86, 3833-7	584
1637	Generalized resistance to thyroid hormone associated with a mutation in the ligand-binding domain of the human thyroid hormone receptor beta. <b>1989</b> , 86, 8977-81	208
1636	T-cell receptor delta-chain diversity in peripheral lymphocytes. <b>1989</b> , 86, 1023-6	27



1635	Molecular basis of adult-onset and chronic GM2 gangliosidosis in patients of Ashkenazi Jewish origin: substitution of serine for glycine at position 269 of the alpha-subunit of beta-hexosaminidase. <b>1989</b> , 86, 2413-7	88
1634	DNA-Hybridisierung: Diagnostische Anwendungen und neue Trends. <b>1989</b> , 37, 692-702	6
1633	A moveable 5' splice site in adenine phosphoribosyltransferase genes of <i>Drosophila</i> species. <b>1989</b> , 9, 2220-3	7
1632	A novel pathway for transversion mutation induced by dCTP misincorporation in a mutator strain of CHO cells. <b>1989</b> , 9, 1810-2	23
1631	Molecular basis of human von Willebrand disease: analysis of platelet von Willebrand factor mRNA. <b>1989</b> , 86, 3723-7	103
1630	Identification of a point mutation in growth factor repeat C of the low density lipoprotein-receptor gene in a patient with homozygous familial hypercholesterolemia that affects ligand binding and intracellular movement of receptors. <b>1989</b> , 86, 4166-70	83
1629	Direct characterization of factor VIII in plasma: detection of a mutation altering a thrombin cleavage site (arginine-372----histidine). <b>1989</b> , 86, 4277-81	63
1628	Molecular cloning, characterization, and expression of human ADP-ribosylation factors: two guanine nucleotide-dependent activators of cholera toxin. <b>1989</b> , 86, 6101-5	103
1627	Dynamics of mitochondrial DNA evolution in animals: amplification and sequencing with conserved primers. <b>1989</b> , 86, 6196-200	3800
1626	Specific HLA-DQB and HLA-DRB1 alleles confer susceptibility to pemphigus vulgaris. <b>1989</b> , 86, 6215-9	87
1625	Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes. <b>1989</b> , 86, 6230-4	796
1624	Human beta-globin gene expression in transgenic mice is enhanced by a distant DNase I hypersensitive site. <b>1989</b> , 86, 7082-6	108
1623	Association between a specific apolipoprotein B mutation and familial defective apolipoprotein B-100. <b>1989</b> , 86, 587-91	486
1622	Targeted gene mutations in <i>Drosophila</i> . <b>1989</b> , 86, 9402-6	159
1621	HLA-DR4 subtype frequencies in rheumatoid arthritis indicate that DRB1 is the major susceptibility locus within the HLA class II region. <b>1989</b> , 86, 10049-53	326
1620	Canine hemophilia B resulting from a point mutation with unusual consequences. <b>1989</b> , 86, 10095-9	160
1619	Molecular and functional characterization of amylin, a peptide associated with type 2 diabetes mellitus. <b>1989</b> , 86, 9662-6	129
1618	Isolation of a cDNA clone of the 14-kDa subunit of the signal recognition particle by cross-hybridization of differently primed polymerase chain reactions. <b>1989</b> , 86, 9747-51	29

1617	Transcriptional activity of the human thymidine kinase gene determined by a method using the polymerase chain reaction and an intron-specific probe. <b>1989</b> , 86, 9774-7	119
1616	Colorimetric detection of specific DNA segments amplified by polymerase chain reactions. <b>1989</b> , 86, 2423-7	113
1615	Allele-specific enzymatic amplification of beta-globin genomic DNA for diagnosis of sickle cell anemia. <b>1989</b> , 86, 2757-60	526
1614	Acute fatal HIV encephalitis with negative serologic assays for antibody and antigen: diagnosis by polymerase chain reaction. <b>1989</b> , 320, 1494-5	11
1613	Identification of genes from pattern formation, tyrosine kinase, and potassium channel families by DNA amplification. <b>1989</b> , 86, 4372-6	98
1612	DNA polymerase III gene of <i>Bacillus subtilis</i> . <b>1989</b> , 86, 4421-4	18
1611	Vasotocin and isotocin precursors from the white sucker, <i>Catostomus commersoni</i> : cloning and sequence analysis of the cDNAs. <b>1989</b> , 86, 5242-6	39
1610	Analysis of mammalian cell genetic regulation in situ by using retrovirus-derived "portable exons" carrying the <i>Escherichia coli</i> lacZ gene. <b>1989</b> , 86, 5517-21	64
1609	Structural analysis of the HLA-DR, -DQ, and -DP alleles on the celiac disease-associated HLA-DR3 (DRw17) haplotype. <b>1989</b> , 86, 6274-8	72
1608	Interaction of <i>Staphylococcus aureus</i> toxin "superantigens" with human T cells. <b>1989</b> , 86, 8941-5	844
1607	Rat amylin: cloning and tissue-specific expression in pancreatic islets. <b>1989</b> , 86, 3127-30	112
1606	Amplification of DNA from Epithelial Cells in Urine. <b>1989</b> , 320, 809-809	7
1605	Isolation and characterization of a mammalian gene encoding a high-affinity cAMP phosphodiesterase. <b>1989</b> , 86, 3599-603	175
1604	The spflash mouse: a missense mutation in the ornithine transcarbamylase gene also causes aberrant mRNA splicing. <b>1989</b> , 86, 4142-6	89
1603	Detection of minimal disease in hematopoietic malignancies of the B-cell lineage by using third-complementarity-determining region (CDR-III)-specific probes. <b>1989</b> , 86, 5123-7	221
1602	Isolation of a rat liver Golgi mannosidase II clone by mixed oligonucleotide-primed amplification of cDNA. <b>1989</b> , 86, 5276-80	51
1601	One-sided polymerase chain reaction: the amplification of cDNA. <b>1989</b> , 86, 5673-7	212
1600	Developmentally restricted immunoglobulin heavy chain variable region gene expressed at high frequency in chronic lymphocytic leukemia. <b>1989</b> , 86, 5913-7	201

1599	Oncogene activation in human benign tumors of the skin (keratoacanthomas): is HRAS involved in differentiation as well as proliferation?. <b>1989</b> , 86, 6372-6	87
1598	Diversity of the G-protein family: sequences from five additional alpha subunits in the mouse. <b>1989</b> , 86, 7407-9	166
1597	Gamma delta beta-thalassemia due to a de novo mutation deleting the 5' beta-globin gene activation-region hypersensitive sites. <b>1989</b> , 86, 7470-4	212
1596	Tissue-specific splicing mutation in acute intermittent porphyria. <b>1989</b> , 86, 661-4	107
1595	Glycine tRNA mutants with normal anticodon loop size cause -1 frameshifting. <b>1989</b> , 86, 7979-83	37
1594	Mutation of the proteolipid protein gene PLP in a human X chromosome-linked myelin disorder. <b>1989</b> , 86, 8128-31	175
1593	Molecular analysis of O6-substituted guanine-induced mutagenesis of ras oncogenes. <b>1989</b> , 86, 8650-4	101
1592	Recruitment of a penicillin-binding protein gene from <i>Neisseria flavescens</i> during the emergence of penicillin resistance in <i>Neisseria meningitidis</i> . <b>1989</b> , 86, 8988-92	171
1591	A specific HLA-DP beta allele is associated with pauciarticular juvenile rheumatoid arthritis but not adult rheumatoid arthritis. <b>1989</b> , 86, 9489-93	127
1590	Ancient roots for polymorphism at the HLA-DQ alpha locus in primates. <b>1989</b> , 86, 9986-90	134
1589	T-cell receptor V alpha and C alpha alleles associated with multiple and myasthenia gravis. <b>1989</b> , 86, 988-92	144
1588	Identification of mutations leading to the Lesch-Nyhan syndrome by automated direct DNA sequencing of in vitro amplified cDNA. <b>1989</b> , 86, 1919-23	251
1587	A hydrogenase-linked gene in <i>Methanobacterium thermoautotrophicum</i> strain delta H encodes a polyferredoxin. <b>1989</b> , 86, 3031-5	120
1586	Molecular cloning of plant transcripts encoding protein kinase homologs. <b>1989</b> , 86, 3140-4	144
1585	Use of the DNA polymerase chain reaction for homology probing: isolation of partial cDNA or genomic clones encoding the iron-sulfur protein of succinate dehydrogenase from several species. <b>1989</b> , 86, 1934-8	135
1584	Structure of the bovine tau gene: alternatively spliced transcripts generate a protein family. <b>1989</b> , 9, 1389-96	304
1583	Expression of the RESA gene in <i>Plasmodium falciparum</i> isolate FCR3 is prevented by a subtelomeric deletion. <b>1989</b> , 9, 3584-7	80
1582	Pea aphid symbiont relationships established by analysis of 16S rRNAs. <b>1989</b> , 171, 2970-4	163

1581	Current approaches to the molecular and physiological basis of cystic fibrosis. <b>1989</b> , 298, 334-41	3
1580	Nucleic acid amplification in vitro: detection of sequences with low copy numbers and application to diagnosis of human immunodeficiency virus type 1 infection. <b>1989</b> , 2, 217-26	64
1579	Detection of single base changes in nucleic acids. <b>1989</b> , 263, 1-10	93
1578	New methodologies. Their role in pediatric pathology. <b>1989</b> , 36, 227-56	2
1577	Aldehyde dehydrogenase I?????????. <b>1989</b> , 30, 711-711	
1576	HIV viral sequences in seronegative people at risk detected by in situ hybridisation and polymerase chain reaction. <b>1989</b> , 298, 713-6	31
1575	Preimplantation diagnosis with the polymerase chain reaction. <b>1989</b> , 299, 3	2
1574	Persistence of cytomegalovirus in mononuclear cells in peripheral blood from blood donors. <b>1989</b> , 299, 897-8	101
1573	The polymerase chain reaction: a new epidemiological tool for investigating cervical human papillomavirus infection. <b>1989</b> , 298, 14-8	221
1572	Embryo research: yes or no?. <b>1989</b> , 299, 1349-51	3
1571	Nonsense mutation in the glycoprotein Ib alpha coding sequence associated with Bernard-Soulier syndrome. <b>1990</b> , 87, 2026-30	79
1570	Single domain antibodies. <b>1990</b> , 300, 959-60	2
1569	General colorimetric method for DNA diagnostics allowing direct solid-phase genomic sequencing of the positive samples. <b>1990</b> , 87, 6569-73	66
1568	Characterization of a splicing mutation in group A xeroderma pigmentosum. <b>1990</b> , 87, 9908-12	102
1567	Rapid cloning of HLA-A,B cDNA by using the polymerase chain reaction: frequency and nature of errors produced in amplification. <b>1990</b> , 87, 2833-7	272
1566	DNA probes in food microbiology. <b>1990</b> , 4, 585-598	18
1565	Carcinogen-induced mutations in the mouse c-Ha-ras gene provide evidence of multiple pathways for tumor progression. <b>1990</b> , 87, 538-42	234
1564	Meiotic recombination between yeast artificial chromosomes yields a single clone containing the entire BCL2 protooncogene. <b>1990</b> , 87, 9913-7	35

1563	Allelic diversification at the class II DQB locus of the mammalian major histocompatibility complex. <b>1990, 87, 1835-9</b>	112
1562	Retroviral recombination during reverse transcription. <b>1990, 87, 2052-6</b>	91
1561	Functional analysis of a centromere from fission yeast: a role for centromere-specific repeated DNA sequences. <b>1990, 10, 1863-72</b>	97
1560	Epidemiologic assessment of screening tests for antibody to human T lymphotropic virus type I (HTLV-I). <b>1990, 80, 190-2</b>	10
1559	Chromosomal destabilization during gene amplification. <b>1990, 10, 3056-66</b>	89
1558	Procyclic acidic repetitive protein (PARP) genes located in an unusually small alpha-amanitin-resistant transcription unit: PARP promoter activity assayed by transient DNA transfection of <i>Trypanosoma brucei</i> . <b>1990, 10, 3492-504</b>	122
1557	Transcription analysis of class II human leukocyte antigen genes from normal and immunodeficient B lymphocytes, using polymerase chain reaction. <b>1990, 10, 3792-6</b>	24
1556	Human <i>trk</i> oncogenes activated by point mutation, in-frame deletion, and duplication of the tyrosine kinase domain. <b>1990, 10, 4202-10</b>	76
1555	Characterization and cDNA cloning of phospholipase C-gamma, a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. <b>1990, 10, 4770-7</b>	182
1554	Upstream elements repress premature expression of an <i>Aspergillus</i> developmental regulatory gene. <b>1990, 10, 4912-9</b>	58
1553	A nonsense mutation causing decreased levels of insulin receptor mRNA: detection by a simplified technique for direct sequencing of genomic DNA amplified by the polymerase chain reaction. <b>1990, 87, 658-62</b>	140
1552	Method for identifying microbial antigens that stimulate specific lymphocyte responses: application to <i>Salmonella</i> . <b>1990, 87, 9823-7</b>	6
1551	Amplified RNA synthesized from limited quantities of heterogeneous cDNA. <b>1990, 87, 1663-7</b>	1086
1550	"Site-selected" transposon mutagenesis of <i>Drosophila</i> . <b>1990, 87, 1686-90</b>	126
1549	Isolation of fetal DNA from nucleated erythrocytes in maternal blood. <b>1990, 87, 3279-83</b>	370
1548	Premature chromosome condensation is induced by a point mutation in the hamster <i>RCC1</i> gene. <b>1990, 10, 577-84</b>	97
1547	The cyclic nucleotide phosphodiesterase gene of <i>Dictyostelium discoideum</i> contains three promoters specific for growth, aggregation, and late development. <b>1990, 10, 1921-30</b>	72
1546	Definition of the minimal simian virus 40 large T antigen- and adenovirus E1A-binding domain in the retinoblastoma gene product. <b>1990, 10, 3761-9</b>	193

1545	Molecular cloning and expression of a G25K cDNA, the human homolog of the yeast cell cycle gene CDC42. <b>1990</b> , 10, 5977-82	155
1544	Structure and expression of germ line immunoglobulin heavy-chain epsilon transcripts: interleukin-4 plus lipopolysaccharide-directed switching to C epsilon. <b>1990</b> , 10, 1672-9	103
1543	Cell-specific toxicity of a chimeric protein composed of interleukin-6 and Pseudomonas exotoxin (IL6-PE40) on tumor cells. <b>1990</b> , 10, 2443-7	24
1542	Transcriptional and posttranscriptional regulation of the proliferating cell nuclear antigen gene. <b>1990</b> , 10, 3289-96	136
1541	Inactivation of the cellular p53 gene is a common feature of Friend virus-induced erythroleukemia: relationship of inactivation to dominant transforming alleles. <b>1990</b> , 10, 3307-13	113
1540	Human homolog of fission yeast cdc25 mitotic inducer is predominantly expressed in G2. <b>1990</b> , 87, 5139-43	317
1539	Mechanism of translation of the hepadnaviral polymerase (P) gene. <b>1990</b> , 87, 5158-62	36
1538	Isolation of carp genes encoding major histocompatibility complex antigens. <b>1990</b> , 87, 6863-7	208
1537	Mutations in c-Ki-ras oncogenes in diseased livers of winter flounder from Boston Harbor. <b>1990</b> , 87, 841-5	59
1536	Mutation in a heterochromatin-specific chromosomal protein is associated with suppression of position-effect variegation in <i>Drosophila melanogaster</i> . <b>1990</b> , 87, 9923-7	472
1535	Regeneration of a functional RNA virus genome by recombination between deletion mutants and requirement for cowpea chlorotic mottle virus 3a and coat genes for systemic infection. <b>1990</b> , 87, 1820-4	166
1534	<i>Neurospora crassa</i> a mating-type region. <b>1990</b> , 87, 4917-21	230
1533	Large sequence divergence among mitochondrial DNA genotypes within populations of eastern African black-backed jackals. <b>1990</b> , 87, 1772-6	85
1532	Restriction fragment length polymorphism analysis of the kappa-casein locus in cattle. <b>1990</b> , 21, 107-14	19
1531	Recombinant DNA and surgery. <b>1990</b> , 212, 178-86	9
1530	Expansion of the alpha 2-adrenergic receptor family: cloning and characterization of a human alpha 2-adrenergic receptor subtype, the gene for which is located on chromosome 2. <b>1990</b> , 87, 5094-8	254
1529	Alternative splicing produces transcripts encoding two forms of the alpha subunit of GTP-binding protein Go. <b>1990</b> , 87, 6477-81	133
1528	Molecular analysis of human argininosuccinate lyase: mutant characterization and alternative splicing of the coding region. <b>1990</b> , 87, 9625-9	40

1527	Comparison of human ZFY and ZFX transcripts. <b>1990</b> , 87, 1681-5	74
1526	Characterization of a mutation in a family with saposin B deficiency: a glycosylation site defect. <b>1990</b> , 87, 2541-4	100
1525	A frequent tyrosinase gene mutation in classic, tyrosinase-negative (type IA) oculocutaneous albinism. <b>1990</b> , 87, 3255-8	73
1524	RIP60, a mammalian origin-binding protein, enhances DNA bending near the dihydrofolate reductase origin of replication. <b>1990</b> , 10, 6236-43	54
1523	Three hamster species with different scrapie incubation times and neuropathological features encode distinct prion proteins. <b>1990</b> , 10, 1153-63	80
1522	Transforming c-Ki-ras mutation is a preneoplastic event in mouse mammary carcinogenesis induced in vitro by N-methyl-N-nitrosourea. <b>1990</b> , 10, 1593-9	36
1521	Mutational mapping of RAS-responsive domains of the <i>Saccharomyces cerevisiae</i> adenylyl cyclase. <b>1990</b> , 10, 2539-43	59
1520	Ongoing diversification of the rearranged immunoglobulin light-chain gene in a bursal lymphoma cell line. <b>1990</b> , 10, 3224-31	70
1519	Identification of an octamer-binding site in the human kappa light-chain enhancer. <b>1990</b> , 10, 3843-6	19
1518	Transcription of the procyclic acidic repetitive protein genes of <i>Trypanosoma brucei</i> . <b>1990</b> , 10, 3036-47	144
1517	Immunoglobulin D switching can occur through homologous recombination in human B cells. <b>1990</b> , 10, 3690-9	42
1516	Transcription of testicular angiotensin-converting enzyme (ACE) is initiated within the 12th intron of the somatic ACE gene. <b>1990</b> , 10, 4294-302	185
1515	Type II hereditary angioneurotic edema that may result from a single nucleotide change in the codon for alanine-436 in the C1 inhibitor gene. <b>1990</b> , 87, 265-8	57
1514	Probe mapping to facilitate transposon-based DNA sequencing. <b>1990</b> , 87, 6213-7	24
1513	Genomic subtraction for cloning DNA corresponding to deletion mutations. <b>1990</b> , 87, 1889-93	192
1512	A method for difference cloning: gene amplification following subtractive hybridization. <b>1990</b> , 87, 2720-4	83
1511	Human papillomavirus infections of the genital tract. <b>1990</b> , 74, 1455-85	21
1510	Endocervical chlamydial deoxyribonucleic acid in infertile women**Supported by grant CMRP-145 from The Chang Gung Memorial Hospital (Y.-K.S.) and by grants CMRP-235 and -286 from Chang Gung Medical College, Taipei, Taiwan, Republic of China (C.C.P.).. <b>1990</b> , 54, 815-818	11

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1508	Host sequences flanking the HIV provirus. <b>1990</b> , 18, 6045-7	42
1507	Nucleotide sequence of a porcine prepro atrial natriuretic peptide (ANP) cDNA. <b>1990</b> , 18, 6704	10
1506	A simple method for direct cloning cDNA sequence that flanks a region of known sequence from total RNA by applying the inverse polymerase chain reaction. <b>1990</b> , 18, 1922	34
1505	Improved yields of long PCR products using gene 32 protein. <b>1990</b> , 18, 1079	63
1504	An STS in the human IL7 gene located at 8q12-13. <b>1990</b> , 18, 1315	2
1503	A comparison of thermocycling devices for automating the polymerase chain reaction. <b>1990</b> , 14, 60-8	2
1502	New Rapid Detection Methods for Salmonella and Listeria. <b>1990</b> , 92, 28-31	1
1501	Molecular and functional analysis of the muscle-specific promoter region of the Duchenne muscular dystrophy gene. <b>1990</b> , 10, 193-205	140
1500	DNA FINGERPRINTING OF BREWERS' YEAST: CURRENT PERSPECTIVES. <b>1990</b> , 96, 195-200	26
1499	Molecular genetics in the pathology and diagnosis of retinoblastoma. <b>1990</b> , 1, 25-32	13
1498	Replacement of isoleucine-397 by threonine in the clotting proteinase factor IXa (Los Angeles and Long Beach variants) affects macromolecular catalysis but not L-tosylarginine methyl ester hydrolysis. Lack of correlation between the ox brain prothrombin time and the mutation site in the active site. <b>1990</b> , 215, 218-25	22
1497	The delta-subunit of ATP synthase from bovine heart mitochondria. Complementary DNA sequence of its import precursor cloned with the aid of the polymerase chain reaction. <b>1990</b> , 266, 421-6	21
1496	Synthesis in vitro and application of biotinylated DNA probes for human papilloma virus type 16 by utilizing the polymerase chain reaction. <b>1990</b> , 267, 119-23	11
1495	Identification of a single base change in a new human mutant glucose-6-phosphate dehydrogenase gene by polymerase-chain-reaction amplification of the entire coding region from genomic DNA. <b>1990</b> , 271, 157-60	65
1494	cDNA cloning and expression in <i>Xenopus laevis</i> oocytes of pig renal dipeptidase, a glycosyl-phosphatidylinositol-anchored ectoenzyme. <b>1990</b> , 271, 755-60	49
1493	Spontaneous deletion formation within the beta-galactosidase gene of <i>Lactobacillus bulgaricus</i> . <b>1990</b> , 172, 5670-6	38
1492	Detection of hepatitis B virus DNA in serum by polymerase chain reaction. Application for clinical diagnosis. <b>1990</b> , 99, 799-804	98



1491	c-Ki-ras mutations in chronic ulcerative colitis and sporadic colon carcinoma. <b>1990</b> , 99, 416-20	139
1490	Chronic active hepatitis with hepatitis B virus DNA and antibody against e antigen in the serum. Disturbed synthesis and secretion of e antigen from hepatocytes due to a point mutation in the precore region. <b>1990</b> , 99, 1113-9	135
1489	Sequence invariance of the antigen-coding central region of the phase 1 flagellar filament gene (fliC) among strains of Salmonella typhimurium. <b>1990</b> , 172, 603-9	68
1488	Rapid genetic identification and mapping of enzymatically amplified ribosomal DNA from several Cryptococcus species. <b>1990</b> , 172, 4238-46	3395
1487	Carbohydrate utilization in Streptococcus thermophilus: characterization of the genes for aldose 1-epimerase (mutarotase) and UDPglucose 4-epimerase. <b>1990</b> , 172, 4037-47	95
1486	De novo carcinoma of the lower urinary tract in renal allograft recipients. <b>1990</b> , 144, 1233-5	23
1485	The polymerase chain reaction: the revolution within. <b>1990</b> , 299, 210-6	15
1484	Molecular cloning and nucleotide sequence of the beta-lytic protease gene from Achromobacter lyticus. <b>1990</b> , 172, 6506-11	31
1483	Amplification and specific detection of transforming gene region of human papillomavirus 16, 18 and 33 in cervical carcinoma by means of the polymerase chain reaction. <b>1990</b> , 81, 1-5	59
1482	Point mutation of the neu gene in rat neural tumor RT4-AC cells: suppression of tumorigenicity by s-Myc. <b>1990</b> , 81, 1085-8	6
1481	Prevalence of human papillomavirus types 16 and 18 in cervical carcinomas: a study by dot and Southern blot hybridization and the polymerase chain reaction. <b>1990</b> , 81, 1118-23	14
1480	Mutational activation of H-ras and K-ras genes is absent in N-nitroso-N-methylurea-induced liver tumors in rats. <b>1990</b> , 81, 437-9	15
1479	Genotypic differentiation of intrahepatically transplanted hyperplastic nodule cells of analbuminemic and normal rat origin by polymerase chain reaction. <b>1990</b> , 81, 711-4	4
1478	Detection of hepatitis C virus RNA in sera and liver tissues of non-A, non-B hepatitis patients using the polymerase chain reaction. <b>1990</b> , 81, 862-5	45
1477	Identification of HTLV-I sequence in cord blood mononuclear cells of neonates born to HTLV-I antigen/antibody-positive mothers by polymerase chain reaction. <b>1990</b> , 81, 890-5	34
1476	Comparison between the polymerase chain reaction and slot blot hybridization for the detection of HPV sequences in cervical scrapes. <b>1990</b> , 1, 19-23	6
1475	Characterization of the repertoire of hypervariable regions in the Protein II (opa) gene family of Neisseria gonorrhoeae. <b>1990</b> , 4, 439-49	61
1474	Ureaplasma urealyticum urease genes; use of a UGA tryptophan codon. <b>1990</b> , 4, 669-76	105

1473	Insertion of an extra amino acid is the main cause of the low affinity of penicillin-binding protein 2 in penicillin-resistant strains of <i>Neisseria gonorrhoeae</i> . <b>1990</b> , 4, 913-9	92
1472	Lipid modification of the 15 kiloDalton major membrane immunogen of <i>Treponema pallidum</i> . <b>1990</b> , 4, 1371-9	32
1471	The <i>par</i> region of pSC101 affects plasmid copy number as well as stability. <b>1990</b> , 4, 1839-46	27
1470	The integration-excision system of the conjugative transposon Tn 1545 is structurally and functionally related to those of lambdaoid phages. <b>1990</b> , 4, 1513-21	76
1469	In vitro genetic analysis of the <i>Tetrahymena</i> self-splicing intron. <b>1990</b> , 347, 406-8	120
1468	Dwarf locus mutants lacking three pituitary cell types result from mutations in the POU-domain gene <i>pit-1</i> . <b>1990</b> , 347, 528-33	1078
1467	Use of the polymerase chain reaction to identify mosquito species of the <i>Anopheles gambiae</i> complex. <b>1990</b> , 4, 367-73	117
1466	Molecular heterogeneity of beta-thalassaemia in the Japanese: identification of two novel mutations. <b>1990</b> , 74, 101-7	14
1465	Molecular characterization of beta-thalassaemia in 174 Greek patients with thalassaemia major. <b>1990</b> , 74, 342-6	60
1464	Development of a highly sensitive assay, based on the polymerase chain reaction, for rare B-lymphocyte clones in a polyclonal population. <b>1990</b> , 75, 163-7	201
1463	A past mutation at isoleucine 397 is now a common cause of moderate/mild haemophilia B. <b>1990</b> , 75, 212-6	33
1462	A mutation adjacent to the beta cleavage site of factor IX (valine 182 to leucine) results in mild haemophilia Bm. <b>1990</b> , 75, 217-21	17
1461	The C-T substitution in the distal CACCC box of the beta-globin gene promoter is a common cause of silent beta thalassaemia in the Italian population. <b>1990</b> , 74, 480-6	31
1460	The role of the <i>bcl-2</i> gene in lymphoma. <b>1990</b> , 75, 449-53	35
1459	Detection of Epstein-Barr virus DNA by polymerase chain reaction in lymph node biopsies from patients with angioimmunoblastic lymphadenopathy. <b>1990</b> , 75, 610-4	67
1458	Family studies in von Willebrand's disease by analysis of restriction fragment length polymorphisms and an intragenic variable number tandem repeat (VNTR) sequence. <b>1990</b> , 76, 242-9	27
1457	Thyroxine-binding prealbumin gene polymorphism: a population study. <b>1990</b> , 33, 155-60	7
1456	Molecular pathology of congenital adrenal hyperplasia. <b>1990</b> , 32, 373-93	27

1455	Preliminary development of a diagnostic test for Brucella using polymerase chain reaction. <b>1990</b> , 69, 216-27		82
1454	The use of the polymerase chain reaction (PCR) for the detection of bean yellow mosaic virus in gladiolus. <b>1990</b> , 117, 561-569		48
1453	Molecular biology and leukaemia diagnosis. <b>1990</b> , 3, 949-76		1
1452	Primary cultures of corticostriatal cells from newborn rats: a model to study muscarinic receptor subtypes regulation and function. <b>1990</b> , 2, 143-53		10
1451	Evolution of HLA class-II polymorphism in primates: the DQA locus. <b>1990</b> , 9, 223-33		8
1450	Human Hantitrypsin: molecular diagnosis of mutation and animal models of human pathology.. <b>1990</b> , 1, 99-104		1
1449	New approaches to the diagnosis of tuberculosis in childhood with special reference to neurotuberculosis. <b>1990</b> , 57, 639-44		2
1448	Diagnosis of tuberculosis by polymerase chain reaction. <b>1990</b> , 57, 673-7		6
1447	DNA recombination during PCR. <b>1990</b> , 18, 1687-91		460
1446	Mutation of the Alzheimer's disease amyloid gene in hereditary cerebral hemorrhage, Dutch type. <i>Science</i> , <b>1990</b> , 248, 1124-6	33-3	1187
1445	Partial amino acid sequence of organ of Corti protein OCP-II. <b>1990</b> , 248, 15-8		3
1444	Regional distribution of mRNA for a putative kainate receptor in rat brain. <b>1990</b> , 189, 217-21		21
1443	Hereditary fructose intolerance. <b>1990</b> , 4, 61-78		8
1442	Gastrointestinal non-Hodgkin's lymphoma. <b>1990</b> , 4, 191-200		
1441	Antiviral effect of zidovudine in the experimental model of adult T cell leukemia in rabbits. <b>1990</b> , 14, 841-7		34
1440	Cloning and characterization of a gene coding for a protein (KAP) associated with the kinetoplast of epimastigotes and amastigotes of <i>Trypanosoma cruzi</i> . <b>1990</b> , 40, 233-43		22
1439	Recombinant DNA probes reveal simultaneous infection of tsetse flies with different trypanosome species. <b>1990</b> , 40, 245-53		43
1438	The identification of <i>Trypanosoma brucei</i> subspecies using repetitive DNA sequences. <b>1990</b> , 39, 213-25		85

1437	Chromosomal rearrangements and point mutations in the DHFR-TS gene of <i>Plasmodium chabaudi</i> under antifolate selection. <b>1990</b> , 42, 21-9	31
1436	Mutant dihydrofolate reductase-thymidylate synthase genes in pyrimethamine-resistant <i>Plasmodium falciparum</i> with polymorphic chromosome duplications. <b>1990</b> , 42, 83-91	29
1435	The epitope of a protective monoclonal antibody occurs in a region of microheterogeneity in <i>Plasmodium chabaudi</i> . <b>1990</b> , 42, 153-4	4
1434	Primary structure of the 25-kilodalton ookinete antigen from <i>Plasmodium reichenowi</i> . <b>1990</b> , 43, 143-5	20
1433	Sequence comparison of allelic forms of the <i>Plasmodium falciparum</i> merozoite surface antigen MSA2. <b>1990</b> , 43, 211-20	70
1432	A second region recognized by the protective monoclonal antibody 5C10/66 in the precursor to the major merozoite surface antigen of <i>Plasmodium chabaudi adami</i> . <b>1990</b> , 41, 289-91	8
1431	Sequence conservation of a functional domain of erythrocyte binding antigen 175 in <i>Plasmodium falciparum</i> . <b>1990</b> , 41, 293-5	21
1430	The trouble with 'PCR' machines. <b>1990</b> , 6, 237-8	13
1429	Genetic mapping of common diseases: the challenges of manic-depressive illness and schizophrenia. <b>1990</b> , 6, 282-7	20
1428	The polymerase chain reaction. <b>1990</b> , 12, 81-84	5
1427	Amplified probe-based assays Possibilities and challenges in clinical microbiology. <b>1990</b> , 12, 133-135	8
1426	Detection of deletions, insertions and single nucleotide substitutions in cloned beta-globin genes and new polymorphic nucleotide substitutions in beta-globin genes in a Japanese population using ribonuclease cleavage at mismatches in RNA:DNA duplexes. <b>1990</b> , 231, 219-31	10
1425	Active hepatitis B virus replication in the presence of anti-HBe is associated with viral variants containing an inactive pre-C region. <b>1990</b> , 176, 596-603	182
1424	Structure-specific binding of wound tumor virus transcripts by a host factor: involvement of both terminal nucleotide domains. <b>1990</b> , 179, 599-608	8
1423	The hemagglutinin of influenza B virus present in clinical material is a single species identical to that of mammalian cell-grown virus. <b>1990</b> , 179, 35-40	63
1422	Vaccinia virus host range genes. <b>1990</b> , 179, 276-86	151
1421	Nucleotide sequence and transcriptional analysis of molecular clones of CAEV which generate infectious virus. <b>1990</b> , 179, 347-64	235
1420	Sequence conservation and divergence of hepatitis delta virus RNA. <b>1990</b> , 178, 384-92	81

1419	Detection and characterization of mumps virus V protein. <b>1990</b> , 178, 247-53	40
1418	Heterogeneity of hepatitis delta antigen. <b>1990</b> , 178, 331-6	46
1417	Integrated HPV 1 genomes in a human keratinocyte cell line can be transactivated by a SV40/BPV1 recombinant virus which expresses BPV1 E2 proteins. <b>1990</b> , 175, 508-17	3
1416	The complete genome structure and synthesis of infectious RNA from clones of tomato bushy stunt virus. <b>1990</b> , 177, 141-51	179
1415	Genome organization and taxonomic position of human papillomavirus type 47 inferred from its DNA sequence. <b>1990</b> , 177, 401-5	23
1414	Molecular cloning and comparative sequence analyses of bluetongue virus S1 segments by selective synthesis of specific full-length DNA copies of dsRNA genes. <b>1990</b> , 177, 820-3	40
1413	Quantitation of HIV-1 proviral DNA relative to cellular DNA by the polymerase chain reaction. <b>1990</b> , 189, 202-8	118
1412	Deletion mutagenesis in M13 by polymerase chain reaction using universal sequencing primers. <b>1990</b> , 188, 255-8	2
1411	Analysis of formaldehyde-induced Adh mutations in Drosophila by RNA structure mapping and direct sequencing of PCR-amplified genomic DNA. <b>1990</b> , 28, 367-87	14
1410	A 3' splice site consensus sequence mutation in the cystic fibrosis gene. <b>1990</b> , 85, 450-3	63
1409	Phylogenetic relationships among Tetrahymena species determined using the polymerase chain reaction. <b>1990</b> , 30, 290-7	43
1408	Phylogenetic position of some Chlorella species within the chlorococcales based upon complete small-subunit ribosomal RNA sequences. <b>1990</b> , 31, 432-42	135
1407	DRB1*LY10--a new DRB1 allele and its haplotypic association. <b>1990</b> , 32, 214-7	21
1406	Further data on the selective expression of Ly-5 isoforms. <b>1990</b> , 31, 296-306	19
1405	Identification of a single nucleotide substitution in the coding sequence of in vitro amplified cDNA from a patient with partial HPRT deficiency (HPRTBRISBANE). <b>1990</b> , 13, 692-700	10
1404	A diagnostic method to detect alcelaphine herpesvirus-1 of malignant catarrhal fever using the polymerase chain reaction. <b>1990</b> , 114, 259-63	22
1403	Characterization of a temperature-sensitive mutant in the RNA polymerase PB2 subunit gene of influenza A/WSN/33 virus. <b>1990</b> , 114, 65-73	13
1402	Lack of persistence of influenza virus genetic information in ducks. <b>1990</b> , 111, 263-7	10

1401	Characterisation of an avian influenza virus nucleoprotein expressed in <i>E. coli</i> and in insect cells. <b>1990</b> , 113, 267-77	2
1400	Nucleotide sequence of a 3.5 kilobase fragment of malignant catarrhal fever virus strain WC11. <b>1990</b> , 113, 53-60	5
1399	Detection of latent thymidine kinase-deficient herpes simplex virus in trigeminal ganglia of mice using the polymerase chain reaction. <b>1990</b> , 113, 107-13	10
1398	Enteroviral infection in end stage dilated cardiomyopathy. <b>1990</b> , 68, 914-20	13
1397	Highly variable clinical course in severe alpha 1-antitrypsin deficiency--use of polymerase chain reaction for the detection of rare deficiency alleles. <b>1990</b> , 68, 857-63	11
1396	Rapid detection of chimeric bcr/abl mRNAs in acute lymphoblastic and chronic myeloid leukemia by the polymerase chain reaction. <b>1990</b> , 61, 350-3	11
1395	Expression of human beta-myosin heavy chain fragments in <i>Escherichia coli</i> ; localization of actin interfaces on cardiac myosin. <b>1990</b> , 11, 378-91	11
1394	The development of new radiopharmaceuticals. <b>1990</b> , 16, 373-85	13
1393	Analysis of conventional and in vitro generated mutants of nmr, the negatively acting nitrogen regulatory gene of <i>Neurospora crassa</i> . <b>1990</b> , 222, 233-40	25
1392	[Polymerase chain reaction: an overview]. <b>1990</b> , 77, 515-30	3
1391	An aberrant DRB4 null gene transcript is found that could encode a novel HLA-DR beta chain. <b>1990</b> , 31, 112-7	22
1390	The I-J-disparate mouse strains B10.A(3R) and B10.A(5R) have identical E beta sequences. <b>1990</b> , 31, 127-9	1
1389	Construction of an intron-containing marker gene: splicing of the intron in transgenic plants and its use in monitoring early events in <i>Agrobacterium</i> -mediated plant transformation. <b>1990</b> , 220, 245-50	651
1388	Elicitor-specific induction of one member of the chitinase gene family in <i>Arachis hypogaea</i> . <b>1990</b> , 224, 469-76	42
1387	Isolation and molecular analysis of the orotidine-5'-phosphate decarboxylase gene (pyrG) of <i>Phycomyces blakesleeanus</i> . <b>1990</b> , 224, 269-78	36
1386	Linkage between a PvuII restriction fragment length polymorphism and G6PD A-202A/376G: evidence for a single origin of the common G6PD A- mutation. <b>1990</b> , 85, 9-11	15
1385	Detection of point mutation in the tyrosinase gene of a Japanese albino patient by a direct sequencing of amplified DNA. <b>1990</b> , 85, 123-4	33
1384	Extraction of ribosomal RNA from soil for detection of <i>Frankia</i> with oligonucleotide probes. <b>1990</b> , 154, 329-35	59

1383	Synthesis of saporin gene probes from partial protein sequence data: use of inosine-oligonucleotides, genomic DNA and the polymerase chain reaction. <b>1990</b> , 221, 134-8	20
1382	Type C retroviral expression in spontaneous feline olfactory neuroblastomas. <b>1990</b> , 80, 547-53	26
1381	Heterogeneity of dystrophin expression in patients with Duchenne and Becker muscular dystrophy. <b>1990</b> , 80, 239-50	134
1380	Molecular and genetic characterization of two pollen-expressed genes that have sequence similarity to pectate lyases of the plant pathogen <i>Erwinia</i> . <b>1990</b> , 14, 17-28	135
1379	Mitochondrial malate dehydrogenase from watermelon: sequence of cDNA clones and primary structure of the higher-plant precursor protein. <b>1990</b> , 14, 1019-30	33
1378	The mitochondrial apocytochrome b gene from <i>Chlamydomonas reinhardtii</i> . <b>1990</b> , 15, 357-9	20
1377	Search for retroviral sequences in peripheral blood mononuclear cells and brain tissue of multiple sclerosis patients. <b>1990</b> , 237, 352-5	8
1376	Detection of length heterogeneity in the ribosomal DNA of <i>Pythium ultimum</i> by PCR amplification of the intergenic region. <b>1990</b> , 18, 203-5	45
1375	Mitochondrial myopathies: divergences of genetic deletions, biochemical defects and the clinical syndromes. <b>1990</b> , 237, 5-10	52
1374	Highly sensitive and fast detection of <i>Phoma tracheiphila</i> by polymerase chain reaction. <b>1990</b> , 32, 572-6	30
1373	Lecithin cholesterol acyl transferase deficiency: molecular analysis of a mutated allele. <b>1990</b> , 85, 195-9	52
1372	Two factor IX mutations in the family of an isolated haemophilia B patient: direct carrier diagnosis by amplification mismatch detection (AMD). <b>1990</b> , 85, 200-4	29
1371	Identification of a compound heterozygote for adenine phosphoribosyltransferase deficiency (APRT*J/APART*Q0) leading to 2,8-dihydroxyadenine urolithiasis. <b>1990</b> , 85, 500-4	14
1370	Molecular characterisation of two alpha-1-antitrypsin deficiency variants: proteinase inhibitor (Pi) Null(Newport) (Gly115----Ser) and (Pi) Z Wrexham (Ser-19----Leu). <b>1990</b> , 85, 537-40	15
1369	Detection and direct typing of herpes simplex virus by polymerase chain reaction. <b>1990</b> , 179, 177-84	54
1368	Graded cytopathogenicity of the human immunodeficiency virus (HIV) in the course of HIV infection. <b>1990</b> , 179, 193-203	23
1367	Recurrent nonsense mutations at arginine residues cause severe hemophilia B in unrelated hemophiliacs. <b>1990</b> , 84, 387-90	28
1366	Apolipoprotein A1 Baltimore (Arg10----Leu), a new ApoA1 variant. <b>1990</b> , 84, 439-45	11

1365	Hypoxanthine guanine phosphoribosyltransferase deficiency: nucleotide substitution causing Lesch-Nyhan syndrome identified for the first time among Japanese. <b>1990</b> , 84, 483-6	26
1364	Hb D Los Angeles (D-Punjab) and Hb Presbyterian: analysis of the defect at the DNA level. <b>1990</b> , 84, 365-7	7
1363	An insertion deletion polymorphism in the signal peptide of the human apolipoprotein B gene. <b>1990</b> , 84, 373-5	39
1362	Multiple levels of analysis of an IGHG4 gene deletion. <b>1990</b> , 86, 191-7	12
1361	Haplotyping of the human porphobilinogen deaminase gene in acute intermittent porphyria by polymerase chain reaction. <b>1990</b> , 84, 241-3	15
1360	Prenatal diagnosis of alpha-thalassemia by polymerase chain reaction and dual restriction enzyme analysis. <b>1990</b> , 85, 293-9	24
1359	Two mutations within the coding sequence of the phenylalanine hydroxylase gene. <b>1990</b> , 85, 300-4	21
1358	DNA sequence analysis of the KM19 locus linked to cystic fibrosis. Design of new oligonucleotides to remove non-specific PCR products. <b>1990</b> , 85, 319-23	8
1357	Polymorphism and mapping of the IGF1 gene, and absence of association with stature among African Pygmies. <b>1990</b> , 85, 349-54	14
1356	Detection of beta-thalassemia mutations in the Chinese using amplified DNA from dried blood specimens. <b>1990</b> , 84, 129-31	29
1355	Extent and high frequency of a short conversion between the human A gamma and G gamma fetal globin genes. <b>1990</b> , 84, 179-84	11
1354	Unique sequences for two HLA-DRB1 genes expressed on distinct DRw6 haplotypes. <b>1990</b> , 32, 96-103	26
1353	Hypervariability of intronic simple (gt)n(ga)m repeats in HLA-DRB genes. <b>1990</b> , 32, 110-6	59
1352	The X boxes from promoters of HLA class II B genes at different loci do not compete for nuclear protein-specific binding. <b>1990</b> , 32, 117-28	16
1351	Construction and characterization of band-specific DNA libraries. <b>1990</b> , 84, 512-6	44
1350	Screening for steroid sulfatase (STS) gene deletions by multiplex DNA amplification. <b>1990</b> , 84, 571-3	43
1349	Identification of the mouse beta Fc gamma RII polymorphism by direct sequencing of amplified genomic DNA. <b>1990</b> , 31, 202-6	14
1348	A new Igk-V gene family in the mouse. <b>1990</b> , 32, 345-50	12



1347	Short DNA fragments induce site specific recombination in mammalian cells. <b>1990</b> , 92, 107-16	17
1346	No evidence for the mutation of ras gene in psoriatic epidermis. <b>1990</b> , 282, 8-11	4
1345	Multiplication of the class I alcohol dehydrogenase locus in mammalian evolution. <b>1990</b> , 28, 591-9	8
1344	Expression of human immunodeficiency virus type 1 gag gene using genetically engineered herpes simplex virus type 1 recombinants. <b>1990</b> , 4, 325-37	7
1343	Polymerase chain-reaction-mediated cloning and expression of the coat protein gene of potato virus Y in Escherichia coli. <b>1990</b> , 4, 339-50	15
1342	A versatile acid-labile linker for modification of synthetic biomolecules. <b>1990</b> , 31, 7095-7098	27
1341	Minimizing the time required for DNA amplification by efficient heat transfer to small samples. <b>1990</b> , 186, 328-31	163
1340	Molecular cloning of proteinase-encoding genes from cancer cells by zymogen assay and direct sequencing. <b>1990</b> , 191, 235-41	1
1339	Automated direct sequencing of polymerase chain reaction-amplified fragments of the human Ha-ras gene. <b>1990</b> , 191, 359-64	4
1338	Use of an RNA folding algorithm to choose regions for amplification by the polymerase chain reaction. <b>1990</b> , 185, 57-62	31
1337	"Run-off" synthesis and application of defined single-stranded DNA hybridization probes. <b>1990</b> , 185, 164-9	52
1336	Current concepts in quantitative molecular hybridization. <b>1990</b> , 23, 261-6	8
1335	An evaluation of the polymerase chain reaction method for forensic applications. <b>1990</b> , 45, 201-15	27
1334	High-performance affinity chromatography of DNA. <b>1990</b> , 508, 279-87	36
1333	Rapid separation, quantitation and purification of products of polymerase chain reaction by liquid chromatography. <b>1990</b> , 512, 433-44	46
1332	The polymerase chain reaction and infectious diseases: hopes and realities. <b>1990</b> , 84, 755-6, 758	14
1331	Clinical and laboratory findings in the Paul-Bunnell negative glandular fever-fatigue syndrome. <b>1990</b> , 21, 157-65	7
1330	Five mutant alleles of the insulin receptor gene in patients with genetic forms of insulin resistance. <b>1990</b> , 86, 254-64	126

1329	Frame shift mutations as a novel mechanism for the generation of neutralization resistant mutants of human respiratory syncytial virus. <b>1990</b> , 9, 4181-7	63
1328	Null alleles of human complement C4. Evidence for pseudogenes at the C4A locus and for gene conversion at the C4B locus. <b>1990</b> , 171, 129-40	84
1327	Quantitative analysis of HIV-1 proviral DNA in peripheral blood mononuclear cells from patients with AIDS or ARC: decrease of proviral DNA content following treatment with 2',3'-dideoxyinosine (ddI). <b>1990</b> , 6, 1331-9	58
1326	Clinical applications of the polymerase chain reaction. <b>1990</b> , 1, 161-73	4
1325	LexA-independent expression of a mutant mucAB operon. <b>1990</b> , 172, 6223-31	19
1324	Recombination of Salmonella phase 1 flagellin genes generates new serovars. <b>1990</b> , 172, 2209-16	90
1323	Retroviruses as genetic tools to isolate transcriptionally active chromosomal regions. <b>1990</b> , 88, 141-8	1
1322	Activation of cellular oncogenes by chemical carcinogens in Syrian hamster embryo fibroblasts. <b>1990</b> , 88, 175-8	12
1321	Unorthodox expression of an enzyme: evidence for an untranslated region within carA from Pseudomonas aeruginosa. <b>1990</b> , 172, 630-42	28
1320	An in vitro system for the leader-primed transcription of coronavirus mRNAs. <b>1990</b> , 9, 4173-9	46
1319	Albumin Redhill (-1 Arg, 320 Ala----Thr): a glycoprotein variant of human serum albumin whose precursor has an aberrant signal peptidase cleavage site. <b>1990</b> , 87, 26-30	56
1318	Recovery of DNA from the Acinetobacter calcoaceticus chromosome by gap repair. <b>1990</b> , 172, 6169-72	28
1317	Sequence analysis of conserved regA and variable orf43.1 genes in T4-like bacteriophages. <b>1990</b> , 172, 5180-6	15
1316	Radiation-induced cell transformation: transformation efficiencies of different types of ionizing radiation and molecular changes in radiation transformants and tumor cell lines. <b>1990</b> , 88, 169-74	6
1315	Identification of two variant short chain acyl-coenzyme A dehydrogenase alleles, each containing a different point mutation in a patient with short chain acyl-coenzyme A dehydrogenase deficiency. <b>1990</b> , 85, 1575-82	58
1314	Signal transduction pathway controlling synthesis of a class of degradative enzymes in Bacillus subtilis: expression of the regulatory genes and analysis of mutations in degS and degU. <b>1990</b> , 172, 824-34	239
1313	Familial hypobetalipoproteinemia caused by a mutation in the apolipoprotein B gene that results in a truncated species of apolipoprotein B (B-31). A unique mutation that helps to define the portion of the apolipoprotein B molecule required for the formation of buoyant, triglyceride-rich lipoproteins. <b>1990</b> , 85, 933-42	68
1312	Conserved cysteine to serine mutation in tyrosinase is responsible for the classical albino mutation in laboratory mice. <b>1990</b> , 18, 7293-8	186

1311	Characterization of the 5' to 3' exonuclease associated with <i>Thermus aquaticus</i> DNA polymerase. <b>1990</b> , 18, 7317-22	63
1310	Distribution of mutations around rearranged heavy-chain antibody variable-region genes. <b>1990</b> , 10, 5187-96	121
1309	Expression of granulocyte-macrophage colony-stimulating factor mRNA by inflammatory cells in the sarcoid lung. <b>1990</b> , 3, 245-9	26
1308	A cDNA for a protein that interacts with the human immunodeficiency virus Tat transactivator. <i>Science</i> , <b>1990</b> , 248, 1650-3	33-3 237
1307	Molecular analysis of the heterogeneity among the P-family of alpha-1-antitrypsin alleles. <b>1990</b> , 142, 1185-92	31
1306	Tetranucleotide repeat polymorphism in the LPL gene. <b>1990</b> , 18, 4958	34
1305	Disruption of phase during PCR amplification and cloning of heterozygous target sequences. <b>1990</b> , 18, 5153-6	46
1304	16 Methods for Detecting Microbial Pathogens in Food and Water. <b>1990</b> , 22, 497-531	22
1303	Early findings in the cerebrospinal fluid of patients with HIV-1 infection of the central nervous system. <b>1990</b> , 323, 418-9	13
1302	Familial spastic paraparesis syndrome associated with HTLV-I infection. <b>1990</b> , 323, 732-7	16
1301	Methods for studying bacterial gene transfer in soil by conjugation and transduction. <b>1990</b> , 35, 57-169	29
1300	Alpha-amylase gene transcription in tissues of normal dog. <b>1990</b> , 18, 1031-6	21
1299	Yeast vectors for cloning and copper-inducible expression of foreign genes. <b>1990</b> , 18, 1078	14
1298	Second-trimester placental biopsy versus amniocentesis for prenatal diagnosis of beta-thalassemia. <b>1990</b> , 322, 60-1	15
1297	Applications of the polymerase chain reaction in retroviral-mediated gene transfer and the analysis of gene-marked human TIL cells. <b>1990</b> , 1, 135-49	76
1296	Detection of mutations in the tyrosinase gene in a patient with type IA oculocutaneous albinism. <b>1990</b> , 322, 1724-8	85
1295	Autoimmune diseases: the failure of self tolerance. <i>Science</i> , <b>1990</b> , 248, 1380-8	33-3 409
1294	Characterization of the promoter region of <i>Tetrahymena</i> genes. <b>1990</b> , 18, 323-9	54

1293	Characterization and organization of DNA sequences adjacent to the human telomere associated repeat (TTAGGG) <sub>n</sub> . <b>1990</b> , 18, 3353-61	52
1292	Cloning of the shark Po promoter using a genomic walking technique based on the polymerase chain reaction. <b>1990</b> , 18, 2793-9	51
1291	Endonucleolytic cleavage of a maternal homeo box mRNA in <i>Xenopus</i> oocytes. <b>1990</b> , 4, 1925-35	65
1290	Cloning, chromosomal assignment, and regulation of the rat thyrotropin receptor: expression of the gene is regulated by thyrotropin, agents that increase cAMP levels, and thyroid autoantibodies. <b>1990</b> , 87, 5677-81	177
1289	Eleven distinct VH gene families and additional patterns of sequence variation suggest a high degree of immunoglobulin gene complexity in a lower vertebrate, <i>Xenopus laevis</i> . <b>1990</b> , 171, 1721-37	58
1288	Glyoxysomal malate dehydrogenase from watermelon is synthesized with an amino-terminal transit peptide. <b>1990</b> , 87, 5773-7	105
1287	A second tumor necrosis factor receptor gene product can shed a naturally occurring tumor necrosis factor inhibitor. <b>1990</b> , 87, 8331-5	250
1286	Aberrant splicing of androgen receptor mRNA results in synthesis of a nonfunctional receptor protein in a patient with androgen insensitivity. <b>1990</b> , 87, 7866-70	87
1285	Human cDNAs encoding homologs of the small p34Cdc28/Cdc2-associated protein of <i>Saccharomyces cerevisiae</i> and <i>Schizosaccharomyces pombe</i> . <b>1990</b> , 4, 1332-44	146
1284	Minimal residual disease in childhood B-lineage lymphoblastic leukemia. Persistence of leukemic cells during the first 18 months of treatment. <b>1990</b> , 323, 448-55	165
1283	Primary structure of a key enzyme in plant tetrapyrrole synthesis: glutamate 1-semialdehyde aminotransferase. <b>1990</b> , 87, 4169-73	90
1282	The presumptive CDR3 regions of both T cell receptor alpha and beta chains determine T cell specificity for myoglobin peptides. <b>1990</b> , 172, 27-33	167
1281	The mtr locus is a two-gene operon required for transcription attenuation in the trp operon of <i>Bacillus subtilis</i> . <b>1990</b> , 87, 8726-30	86
1280	Rearrangement of immunoglobulin light chain genes in the chicken occurs prior to colonization of the embryonic bursa of Fabricius. <b>1990</b> , 87, 9416-20	65
1279	A distinct wave of human T cell receptor gamma/delta lymphocytes in the early fetal thymus: evidence for controlled gene rearrangement and cytokine production. <b>1990</b> , 172, 847-59	124
1278	Quantitative analysis of MDR1 (multidrug resistance) gene expression in human tumors by polymerase chain reaction. <b>1990</b> , 87, 7160-4	617
1277	Molecular cloning and DNA sequence analysis of <i>Escherichia coli</i> priA, the gene encoding the primosomal protein replication factor Y. <b>1990</b> , 87, 4615-9	73
1276	Gene sequence of feline tumor necrosis factor alpha. <b>1990</b> , 18, 5563	18

1275	Variable patterns of expression of luciferase in transgenic tobacco leaves. <b>1990</b> , 87, 9183-7	61
1274	Genetic diversity of penicillin-binding protein 2 genes of penicillin-resistant strains of <i>Neisseria meningitidis</i> revealed by fingerprinting of amplified DNA. <b>1990</b> , 34, 1523-8	66
1273	The chromosome translocation (11;14)(p13;q11) associated with T cell acute leukemia. Asymmetric diversification of the translocational junctions. <b>1990</b> , 171, 489-501	29
1272	Homologous recombination and stable transfection in the parasitic protozoan <i>Trypanosoma brucei</i> . <i>Science</i> , <b>1990</b> , 250, 1583-7	33-3 147
1271	Direct detection and automated sequencing of individual alleles after electrophoretic strand separation: identification of a common nonsense mutation in exon 9 of the human lipoprotein lipase gene. <b>1990</b> , 18, 5407-11	163
1270	Monomorphism in humans and sequence differences among higher primates for a sequence tagged site (STS) in homeo box cluster 2 as assayed by denaturing gradient electrophoresis. <b>1990</b> , 18, 1314	8
1269	Mutation in gelsolin gene in Finnish hereditary amyloidosis. <b>1990</b> , 172, 1865-7	136
1268	Characterization of c-Ki-ras and N-ras oncogenes in aflatoxin B1-induced rat liver tumors. <b>1990</b> , 87, 1104-8	110
1267	Direct sequencing of double-stranded DNA PCR products via removing the complementary strand with single-stranded DNA of an M13 clone. <b>1990</b> , 18, 1076	16
1266	Constitutive expression of parathyroid hormone-related protein gene in human T cell leukemia virus type 1 (HTLV-1) carriers and adult T cell leukemia patients that can be trans-activated by HTLV-1 tax gene. <b>1990</b> , 172, 759-65	176
1265	In vitro splicing of fibronectin pre-mRNAs. <b>1990</b> , 18, 4089-97	32
1264	SCREENING OF $\lambda$ t11 LIBRARIES. <b>1990</b> , 253-258	12
1263	AMPLIFICATION OF GENOMIC DNA. <b>1990</b> , 13-20	86
1262	CLONING WITH PCR. <b>1990</b> , 84-91	34
1261	INCORPORATION OF BIOTINYLATED dUTP. <b>1990</b> , 113-118	7
1260	THERMOSTABLE DNA POLYMERASES. <b>1990</b> , 129-141	38
1259	RECOMBINANT PCR. <b>1990</b> , 177-183	327
1258	DNase I FOOTPRINTING. <b>1990</b> , 184-188	9

1257	AMPLIFICATION OF FLANKING SEQUENCES BY INVERSE PCR. <b>1990</b> , 219-227	100
1256	A TRANSCRIPTION-BASED AMPLIFICATION SYSTEM. <b>1990</b> , 245-252	3
1255	ISOLATION OF DNA FROM FUNGAL MYCELIA AND SINGLE SPORES. <b>1990</b> , 282-287	283
1254	HAPLOTYPE ANALYSIS FROM SINGLE SPERM OR DIPLOID CELLS. <b>1990</b> , 300-306	3
1253	AMPLIFICATION OF RIBOSOMAL RNA GENES FOR MOLECULAR EVOLUTION STUDIES. <b>1990</b> , 307-314	53
1252	ORGANIZING A LABORATORY FOR PCR WORK. <b>1990</b> , 447-454	17
1251	Antithrombin III Padua 2: a single base substitution in exon 2 detected with PCR and direct genomic sequencing. <b>1990</b> , 18, 1926	3
1250	The gamma subunit of DNA polymerase III holoenzyme of <i>Escherichia coli</i> is produced by ribosomal frameshifting. <b>1990</b> , 87, 3713-7	224
1249	Primary structure of the 175K <i>Plasmodium falciparum</i> erythrocyte binding antigen and identification of a peptide which elicits antibodies that inhibit malaria merozoite invasion. <b>1990</b> , 111, 1877-84	195
1248	Genomic organization of the mouse pore-forming protein (perforin) gene and localization to chromosome 10. Similarities to and differences from C9. <b>1990</b> , 171, 545-57	32
1247	Two step procedure for early diagnosis of polycystic kidney disease with polymorphic DNA markers on both sides of the gene. <b>1990</b> , 27, 614-7	18
1246	An unusual insertion/deletion in the gene encoding the beta-subunit of propionyl-CoA carboxylase is a frequent mutation in Caucasian propionic acidemia. <b>1990</b> , 87, 1372-6	32
1245	Fibulin is an extracellular matrix and plasma glycoprotein with repeated domain structure. <b>1990</b> , 111, 3155-64	189
1244	Distinct mutations in two patients with leukocyte adhesion deficiency and their functional correlates. <b>1990</b> , 172, 335-45	90
1243	Fast solid support detection of PCR amplified viral DNA sequences using radioiodinated or hapten labelled primers. <b>1990</b> , 18, 3175-83	27
1242	Diversity in junctional sequences associated with the common human V gamma 9 and V delta 2 gene segments in normal blood and lung compared with the limited diversity in a granulomatous disease. <b>1990</b> , 172, 169-81	106
1241	Selective cloning and sequence analysis of the human L1 (LINE-1) sequences which transposed in the relatively recent past. <b>1990</b> , 18, 4099-104	32
1240	Rapid generation of DNA fragments by PCR amplification of crude, synthetic oligonucleotides. <b>1990</b> , 18, 3094	19

1239	Inhibition of T-cell proliferation by a MYB antisense oligomer is accompanied by selective down-regulation of DNA polymerase alpha expression. <b>1990</b> , 87, 5963-7	150
1238	Study of the sequence tagged site (STS) in the beginning of human apo A4 gene region. <b>1990</b> , 18, 5576	1
1237	Gene sequence of porcine tumor necrosis factor alpha. <b>1990</b> , 18, 5564	16
1236	Human collagen, type II, alpha 1, (COL2A1) gene: VNTR polymorphism detected by gene amplification. <b>1990</b> , 18, 3102	51
1235	Chicken IgL variable region gene conversions display pseudogene donor preference and 5' to 3' polarity. <b>1990</b> , 4, 548-58	97
1234	Activation of an intron enhancer within the keratin 18 gene by expression of c-fos and c-jun in undifferentiated F9 embryonal carcinoma cells. <b>1990</b> , 4, 835-48	136
1233	Site-specific cleavage of a yeast chromosome by oligonucleotide-directed triple-helix formation. <i>Science</i> , <b>1990</b> , 249, 73-5	333 194
1232	Understanding the molecular basis of coeliac disease. <b>1990</b> , 31, 497-9	23
1231	Polymerase chain reaction. <b>1990</b> , 10, 311-7	2
1230	A point mutation at the X-chromosomal proteolipid protein locus in Pelizaeus-Merzbacher disease leads to disruption of myelinogenesis. <b>1990</b> , 371, 1175-83	19
1229	The polymerase chain reaction: current and future clinical applications. <b>1990</b> , 27, 2-7	14
1228	Detection of high levels of heparin binding growth factor-1 (acidic fibroblast growth factor) in inflammatory arthritic joints. <b>1990</b> , 110, 1417-26	170
1227	Expression of the unique NCAM VASE exon is independently regulated in distinct tissues during development. <b>1990</b> , 111, 2089-96	97
1226	Structure-function relationships among highly diverse T cells that recognize a determinant from influenza virus hemagglutinin. <b>1990</b> , 172, 1643-51	60
1225	Isolation of a cDNA from the virus responsible for enterically transmitted non-A, non-B hepatitis. <i>Science</i> , <b>1990</b> , 247, 1335-9	333 680
1224	A retrotransposon 412 insertion within an exon of the <i>Drosophila melanogaster</i> vermilion gene is spliced from the precursor RNA. <b>1990</b> , 4, 559-66	56
1223	Library subtraction of in vitro cDNA libraries to identify differentially expressed genes in scrapie infection. <b>1990</b> , 18, 2789-92	169
1222	K-sam, an amplified gene in stomach cancer, is a member of the heparin-binding growth factor receptor genes. <b>1990</b> , 87, 5983-7	228

1221	Cloning of the cDNA for human 12-lipoxygenase. <b>1990</b> , 87, 7477-81	106
1220	Levels of mRNA for a putative kainate receptor are affected by seizures. <b>1990</b> , 87, 7643-7	72
1219	The human immunodeficiency virus type 2 vpr gene is essential for productive infection of human macrophages. <b>1990</b> , 87, 8080-4	150
1218	Mutations of the Gs alpha-subunit gene in Albright hereditary osteodystrophy detected by denaturing gradient gel electrophoresis. <b>1990</b> , 87, 8287-90	224
1217	Isolation of human T-cell lymphotropic virus type 2 from Guaymi Indians in Panama. <b>1990</b> , 87, 8840-4	167
1216	In vitro assembly of infectious nucleocapsids of bacteriophage phi 6: formation of a recombinant double-stranded RNA virus. <b>1990</b> , 87, 9173-7	84
1215	A rapid method of cloning functional variable-region antibody genes in Escherichia coli as single-chain immunotoxins. <b>1990</b> , 87, 1066-70	123
1214	A pair of tandemly repeated genes code for gp24, a putative adhesion protein of Dictyostelium discoideum. <b>1990</b> , 87, 886-90	18
1213	FMS mutations in myelodysplastic, leukemic, and normal subjects. <b>1990</b> , 87, 1377-80	186
1212	NMR detection of creatine kinase expressed in liver of transgenic mice: determination of free ADP levels. <b>1990</b> , 87, 3112-6	127
1211	Familial hypercholesterolemia in a rhesus monkey pedigree: molecular basis of low density lipoprotein receptor deficiency. <b>1990</b> , 87, 3122-6	18
1210	A 3.5 genome equivalent multi access YAC library: construction, characterisation, screening and storage. <b>1990</b> , 18, 1951-6	217
1209	Molecular basis for dominantly inherited inclusion body beta-thalassemia. <b>1990</b> , 87, 3924-8	147
1208	Molecular characterization of inherited medium-chain acyl-CoA dehydrogenase deficiency. <b>1990</b> , 87, 9236-40	79
1207	Molecular biology and respiratory disease. 6. Modern molecular biology and respiratory bacterial infections: a revolution on the horizon. <b>1990</b> , 45, 552-9	1
1206	A single pre-B cell can give rise to antigen-specific B cells that utilize distinct immunoglobulin gene rearrangements. <b>1990</b> , 172, 815-25	13
1205	RFLP for intron E of factor XI gene. <b>1990</b> , 18, 5327	7
1204	cDNA clone encoding Drosophila transcription factor TFIID. <b>1990</b> , 87, 9148-52	69



1203	Mutation of the core or adjacent LVb elements of the Moloney murine leukemia virus enhancer alters disease specificity. <b>1990</b> , 4, 233-42		166
1202	The lamin B receptor of the nuclear envelope inner membrane: a polytopic protein with eight potential transmembrane domains. <b>1990</b> , 111, 1535-42		209
1201	An exon 4 mutation identified in the majority of South African familial hypercholesterolaemics. <b>1990</b> , 27, 298-302		12
1200	Incorporation of 7-deaza dGTP during the amplification step in the polymerase chain reaction procedure improves subsequent DNA sequencing. <b>1990</b> , 1, 137-40		14
1199	Activation of ras oncogenes preceding the onset of neoplasia. <i>Science</i> , <b>1990</b> , 248, 1101-4	33.3	247
1198	Detection of <i>Borrelia burgdorferi</i> DNA in museum specimens of <i>Ixodes dammini</i> ticks. <i>Science</i> , <b>1990</b> , 249, 1420-3	33.3	170
1197	Mutations of the adenyl cyclase gene that block RAS function in <i>Saccharomyces cerevisiae</i> . <i>Science</i> , <b>1990</b> , 247, 464-7	33.3	108
1196	Direct cloning of human transcripts with HnRNA from hybrid cell lines. <i>Science</i> , <b>1990</b> , 249, 652-5	33.3	56
1195	Cloning regions of the <i>Drosophila</i> genome by microdissection of polytene chromosome DNA and PCR with nonspecific primer. <b>1990</b> , 18, 599-603		37
1194	mRNA phenotyping for studying gene expression in small numbers of cells: platelet-derived growth factor and other growth factors in wound-derived macrophages. <b>1990</b> , 2, 3-10		29
1193	Cloning and expression of rat liver CTP: phosphocholine cytidyltransferase: an amphipathic protein that controls phosphatidylcholine synthesis. <b>1990</b> , 87, 6029-33		144
1192	Human macrophage scavenger receptors: primary structure, expression, and localization in atherosclerotic lesions. <b>1990</b> , 87, 9133-7		313
1191	Systematic screening of yeast artificial-chromosome libraries by use of the polymerase chain reaction. <b>1990</b> , 87, 1213-7		414
1190	Automated DNA diagnostics using an ELISA-based oligonucleotide ligation assay. <b>1990</b> , 87, 8923-7		249
1189	Human mast cell tryptase: multiple cDNAs and genes reveal a multigene serine protease family. <b>1990</b> , 87, 3811-5		199
1188	Evidence that the N-terminal domain of nonstructural protein NS3 from yellow fever virus is a serine protease responsible for site-specific cleavages in the viral polyprotein. <b>1990</b> , 87, 8898-902		283
1187	Stimulation of transcription by an Ultrabithorax protein in vitro. <b>1990</b> , 4, 1044-52		37
1186	Enzymatic amplification of a Y chromosome repeat in a single blastomere allows identification of the sex of preimplantation mouse embryos. <b>1990</b> , 87, 4053-7		49

1185	Tandem duplication within a type II collagen gene (COL2A1) exon in an individual with spondyloepiphyseal dysplasia. <b>1990, 87, 3889-93</b>	121
1184	Normal recombination substrate VH to DJH rearrangements in pre-B cell lines from scid mice. <b>1990, 171, 1909-18</b>	42
1183	Identification of the albino mutation of mouse tyrosinase by analysis of an in vitro revertant. <b>1990, 87, 7010-4</b>	77
1182	Selection of gamma delta T cells with canonical T-cell antigen receptors in fetal thymus. <b>1990, 87, 7935-8</b>	52
1181	Haplotype of multiple polymorphisms resolved by enzymatic amplification of single DNA molecules. <b>1990, 87, 6296-300</b>	123
1180	Splicing mutations in the CHO DHFR gene preferentially induced by (+/-)-3 alpha,4 beta-dihydroxy-1 alpha,2 alpha-epoxy-1,2,3,4- tetrahydrobenzo[c]phenanthrene. <b>1990, 87, 5464-8</b>	25
1179	Maize sucrose synthase-1 promoter directs phloem cell-specific expression of Gus gene in transgenic tobacco plants. <b>1990, 87, 4144-8</b>	92
1178	Worldwide differences in the incidence of type I diabetes are associated with amino acid variation at position 57 of the HLA-DQ beta chain. <b>1990, 87, 7370-4</b>	178
1177	Cloning of a chicken liver cDNA encoding 5-aminoimidazole ribonucleotide carboxylase and 5-aminoimidazole-4-N-succinocarboxamide ribonucleotide synthetase by functional complementation of Escherichia coli pur mutants. <b>1990, 87, 3097-101</b>	37
1176	The polydeoxyadenylate tract of Alu repetitive elements is polymorphic in the human genome. <b>1990, 87, 2951-4</b>	242
1175	Primary structure of rat RT6.2, a nonglycosylated phosphatidylinositol-linked surface marker of postthymic T cells. <b>1990, 87, 964-7</b>	72
1174	Sequence of an influenza virus hemagglutinin determined directly from a clinical sample. <b>1990, 87, 4154-8</b>	23
1173	Amino acids in the dihydrofolate reductase-thymidylate synthase gene of Plasmodium falciparum involved in cycloguanil resistance differ from those involved in pyrimethamine resistance. <b>1990, 87, 3014-7</b>	233
1172	Molecular characterization of a rat alpha 2B-adrenergic receptor. <b>1990, 87, 3102-6</b>	130
1171	Direct electrophoretic detection of the allelic state of single DNA molecules in human sperm by using the polymerase chain reaction. <b>1990, 87, 4580-4</b>	123
1170	A nervous system-specific isotype of the beta subunit of Na <sup>+</sup> ,K <sup>(+)</sup> -ATPase expressed during early development of Xenopus laevis. <b>1990, 87, 9088-92</b>	107
1169	Autogenous suppression of an opal mutation in the gene encoding peptide chain release factor 2. <b>1990, 87, 8432-6</b>	51
1168	The repertoire of somatic antibody mutants accumulating in the memory compartment after primary immunization is restricted through affinity maturation and mirrors that expressed in the secondary response. <b>1990, 172, 1681-9</b>	186

1167	Rapid method for distinguishing clonal from polyclonal B cell populations in surgical biopsy specimens. <b>1990</b> , 43, 429-32	156
1166	Regulation of alternative splicing in the generation of isoforms of the mouse Ly-5 (CD45) glycoprotein. <b>1990</b> , 87, 3728-32	25
1165	The second zinc-finger domain of poly(ADP-ribose) polymerase determines specificity for single-stranded breaks in DNA. <b>1990</b> , 87, 2990-4	242
1164	Influenza virus hemagglutinin-specific antibodies isolated from a combinatorial expression library are closely related to the immune response of the donor. <b>1990</b> , 87, 6450-4	81
1163	Site-directed mutagenesis reveals a liver transcription factor essential for the albumin transcriptional enhancer. <b>1990</b> , 87, 5469-73	102
1162	Protein N-myristoylation in Escherichia coli: reconstitution of a eukaryotic protein modification in bacteria. <b>1990</b> , 87, 1506-10	236
1161	Identification of a cleavage site directing the immunochemical detection of molecular abnormalities in type IIA von Willebrand factor. <b>1990</b> , 87, 6306-10	295
1160	Molecular cloning of a human gene that is a member of the nerve growth factor family. <b>1990</b> , 87, 8060-4	304
1159	Hot spot mutations in adenosine deaminase deficiency. <b>1990</b> , 87, 6171-5	39
1158	Constructing DNA by polymerase recombination. <b>1990</b> , 18, 3983-6	48
1157	A ribosomal protein of Yersinia pseudotuberculosis having partial epitope identity with HLA-B27. <b>1990</b> , 7, 267-77	7
1156	Detection of bovine kappa-casein genomic variants by the polymerase chain reaction method. <b>1990</b> , 21, 215-6	31
1155	Enzyme immunoassay for detection of hybrids between PCR-amplified HIV-1 DNA and a RNA probe: PCR-EIA. <b>1990</b> , 6, 775-84	30
1154	Enhancement of foreign gene expression by a dicot intron in rice but not in tobacco is correlated with an increased level of mRNA and an efficient splicing of the intron. <b>1990</b> , 18, 6767-70	165
1153	Fate of exogenous DNA carried into mouse eggs by spermatozoa. <b>1990</b> , 1, 21-31	17
1152	Evidence for a new family of evolutionarily conserved homeobox genes. <b>1990</b> , 18, 1908	21
1151	Neurotrophin-3: a neurotrophic factor related to NGF and BDNF. <i>Science</i> , <b>1990</b> , 247, 1446-1451	33.3 1127
1150	Epithelial-specific keratin gene expression: identification of a 300 base-pair controlling segment. <b>1990</b> , 18, 247-53	37

1149	Sequence analysis of two temperature-sensitive mutations in the alpha subunit gene (rpoA) of Escherichia coli RNA polymerase. <b>1990</b> , 18, 5945-8	56
1148	Detection of single base mismatches of thymine and cytosine residues by potassium permanganate and hydroxylamine in the presence of tetralkylammonium salts. <b>1990</b> , 18, 6807-14	36
1147	Selective enrichment of a large size genomic DNA fragment by affinity capture: an approach for genome mapping. <b>1990</b> , 18, 1789-95	12
1146	Compilation of small ribosomal subunit RNA sequences. <b>1990</b> , 18 Suppl, 2237-317	381
1145	Rapid assessment of haemophilia A carrier state by non-invasive techniques using the polymerase chain reaction. <b>1990</b> , 43, 505-7	6
1144	Characterization of VPS34, a gene required for vacuolar protein sorting and vacuole segregation in Saccharomyces cerevisiae. <b>1990</b> , 10, 6742-54	419
1143	A polymorphic microsatellite in the tumor necrosis factor alpha promoter identifies an allele unique to the NZW mouse strain. <b>1990</b> , 171, 2141-6	60
1142	Identification of a factor IX point mutation using SSCP analysis and direct sequencing. <b>1990</b> , 18, 5575	17
1141	cDNA for endothelial leukocyte adhesion molecule 1 (ELAM1): sequence differences. <b>1990</b> , 18, 1083	6
1140	Developmental regulation of mammary-derived growth inhibitor expression in bovine mammary tissue. <b>1990</b> , 110, 1779-89	72
1139	Full length vascular cell adhesion molecule 1 (VCAM-1). <b>1990</b> , 18, 5901	60
1138	Nucleotide sequence of bovine copper/zinc superoxide dismutase cDNA generated by the polymerase chain reaction. <b>1990</b> , 18, 7171	6
1137	Mutation in the gene encoding the stimulatory G protein of adenylate cyclase in Albright's hereditary osteodystrophy. <b>1990</b> , 322, 1412-9	345
1136	A distal dimerization domain is essential for DNA-binding by the atypical HNF1 homeodomain. <b>1990</b> , 18, 5853-63	140
1135	Drosophila melanogaster genes for U1 snRNA variants and their expression during development. <b>1990</b> , 18, 6971-9	55
1134	RFLP for Mbol in the human tyrosinase (TYR) gene detected by PCR. <b>1990</b> , 18, 3103	45
1133	Site-directed mutagenesis using a double-stranded DNA fragment as a PCR primer. <b>1990</b> , 18, 4947	49
1132	Cloning and characterization of nuclear genes for two mitochondrial ribosomal proteins in Saccharomyces cerevisiae. <b>1990</b> , 18, 1521-9	42

1131	Tolerance in transgenic mice expressing major histocompatibility molecules extrathymically on pancreatic cells. <i>Science</i> , <b>1990</b> , 248, 1364-8	33.3	97
1130	Conserved sequence and structural elements in the HIV-1 principal neutralizing determinant. <i>Science</i> , <b>1990</b> , 249, 932-5	33.3	638
1129	Editing of the wheat coxIII transcript: evidence for twelve C to U and one U to C conversions and for sequence similarities around editing sites. <b>1990</b> , 18, 3771-6		128
1128	Isolation of cDNA clones using yeast artificial chromosome probes. <b>1990</b> , 18, 3913-7		86
1127	Detection of single-base mutations by reaction of DNA heteroduplexes with a water-soluble carbodiimide followed by primer extension: application to products from the polymerase chain reaction. <b>1990</b> , 18, 3933-9		53
1126	Identification, characterization, and cell specificity of a human LINE-1 promoter. <b>1990</b> , 10, 6718-29		360
1125	Direct sequencing of PCR-amplified junction fragments from tandemly repeated transgenes. <b>1990</b> , 18, 6089-95		30
1124	Direct single stranded sequencing from agarose of polymerase chain reaction products. <b>1990</b> , 18, 6163-4		21
1123	Schizosaccharomyces U6 genes have a sequence within their introns that matches the B box consensus of tRNA internal promoters. <b>1990</b> , 18, 2025-32		30
1122	A novel C-T transition within the distal CCAAT motif of the G gamma-globin gene in the Japanese HPFH: implication of factor binding in elevated fetal globin expression. <b>1990</b> , 18, 5245-53		86
1121	Identification of a chromosome 18q gene that is altered in colorectal cancers. <i>Science</i> , <b>1990</b> , 247, 49-56	33.3	1528
1120	Nucleotide and deduced amino acid sequences of mouse catalase: molecular analysis of a low activity mutant. <b>1990</b> , 18, 4941		18
1119	Echolocation: a PCR-based strategy for reliably and rapidly mapping transposon insertion sites. <b>1990</b> , 18, 6741-2		5
1118	Nucleotide sequence of the glyceraldehyde-3-phosphate dehydrogenase gene from <i>Cryptosporidia parvum</i> . <b>1990</b> , 18, 5566		34
1117	Identification of genes expressed in the tobacco shoot apex during the floral transition. <b>1990</b> , 2, 963-72		49
1116	Cultured normal human hepatocytes do not synthesize lipoprotein-associated coagulation inhibitor: evidence that endothelium is the principal site of its synthesis. <b>1990</b> , 87, 8869-73		241
1115	Somatic diversification of the chicken immunoglobulin light-chain gene. <b>1990</b> , 48, 41-67		34
1114	Dinucleotide repeat polymorphism at the 3' end of the LDL receptor gene. <b>1990</b> , 18, 4300		27

1113	A rapid method for determining clone frequency in complex populations using PCR and the Poisson distribution. <b>1990</b> , 18, 7453-4	6
1112	Rapid colorimetric detection of in vitro amplified DNA sequences. <b>1990</b> , 9, 287-92	31
1111	Molecular basis for the properties of the thyroxine-binding globulin-slow variant in American blacks. <b>1990</b> , 13, 343-9	26
1110	Evidence against a seronegative HTLV-I carrier rate among children. <b>1990</b> , 6, 1057-8	8
1109	Chicken NFI/TGGCA proteins are encoded by at least three independent genes: NFI-A, NFI-B and NFI-C with homologues in mammalian genomes. <b>1990</b> , 18, 2607-16	166
1108	G protein diversity: a distinct class of alpha subunits is present in vertebrates and invertebrates. <b>1990</b> , 87, 9113-7	423
1107	Effects of primer-template mismatches on the polymerase chain reaction: human immunodeficiency virus type 1 model studies. <b>1990</b> , 18, 999-1005	882
1106	Towards construction of a high resolution map of the mouse genome using PCR-analysed microsatellites. <b>1990</b> , 18, 4123-30	415
1105	Identification of mutations in regions corresponding to the two putative nucleotide (ATP)-binding folds of the cystic fibrosis gene. <b>1990</b> , 87, 8447-51	384
1104	High prevalence of HTLV-II among intravenous drug abusers: PCR confirmation and typing. <b>1990</b> , 6, 561-5	48
1103	Molecular epidemiology of human hepatitis A virus defined by an antigen-capture polymerase chain reaction method. <b>1990</b> , 87, 2867-71	206
1102	Detection of a specific mitochondrial DNA deletion in tissues of older humans. <b>1990</b> , 18, 6927-33	702
1101	Gene transfer into humans--immunotherapy of patients with advanced melanoma, using tumor-infiltrating lymphocytes modified by retroviral gene transduction. <b>1990</b> , 323, 570-8	1042
1100	Glu-69 of the D2 protein in photosystem II is a potential ligand to Mn involved in photosynthetic oxygen evolution. <b>1990</b> , 29, 5325-32	99
1099	A beta 3 integrin mutation abolishes ligand binding and alters divalent cation-dependent conformation. <i>Science</i> , <b>1990</b> , 249, 915-8	333 385
1098	Human glucose-6-phosphate dehydrogenase gene carried on a yeast artificial chromosome encodes active enzyme in monkey cells. <b>1990</b> , 7, 531-4	35
1097	Further DNA sequence microheterogeneity of the HLA-DR4/Dw13 haplotype group: importance of amino acid position 86 of the DR beta 1 chain for T-cell recognition. <b>1990</b> , 27, 378-89	30
1096	The agent of bacillary angiomatosis. An approach to the identification of uncultured pathogens. <b>1990</b> , 323, 1573-80	799

1095	Identification of <i>Toxoplasma gondii</i> in paraffin-embedded sections by the polymerase chain reaction. <b>1990</b> , 110, 599-604	53
1094	Formamide can dramatically improve the specificity of PCR. <b>1990</b> , 18, 7465	219
1093	Multiple forms of Go alpha mRNA: analysis of the 3'-untranslated regions. <b>1990</b> , 29, 5069-76	17
1092	Expression and characterization of recombinant human factor V and a mutant lacking a major portion of the connecting region. <b>1990</b> , 29, 6762-8	48
1091	A computer program for selection of oligonucleotide primers for polymerase chain reactions. <b>1990</b> , 18, 1757-61	161
1090	Bacterial origin of a chloroplast intron: conserved self-splicing group I introns in cyanobacteria. <i>Science</i> , <b>1990</b> , 250, 1566-70	33.3 216
1089	Simplified colorimetric analysis of polymerase chain reactions: detection of HIV sequences in AIDS patients. <b>1990</b> , 94, 223-8	41
1088	Rapid two-stage polymerase chain reaction amplification of chromosomal DNA segments in lysates made from monolayer cultures attached to microcarrier beads. <b>1990</b> , 93, 293-6	1
1087	Cloning and characterization of the human beta-glucuronidase gene. <b>1990</b> , 7, 280-3	51
1086	Hypervariable minisatellite DNA is a hotspot for homologous recombination in human cells. <b>1990</b> , 60, 95-103	220
1085	Mutational analysis of the phage T4 morphogenetic 31 gene, whose product interacts with the <i>Escherichia coli</i> GroEL protein. <b>1990</b> , 86, 19-25	30
1084	A method for detection of human papillomavirus DNA in stored slides of stained cervical smears. <b>1990</b> , 186, 666-7	
1083	The bovine genome contains polymorphic microsatellites. <b>1990</b> , 8, 403-6	74
1082	Functions of the myosin ATP and actin binding sites are required for <i>C. elegans</i> thick filament assembly. <b>1990</b> , 60, 133-40	73
1081	Sequence of choline acetyltransferase temperature-sensitive mutants determined by the polymerase chain reaction. <b>1990</b> , 39, 245-50	10
1080	Susceptibility to develop celiac disease is primarily associated with HLA-DQ alleles. <b>1990</b> , 29, 157-65	64
1079	The detection of <i>Gardnerella vaginalis</i> DNA sequences in uncultured clinical specimens with cloned <i>G. vaginalis</i> DNA as probes. <b>1990</b> , 4, 367-73	4
1078	Amplification of DNA sequences of Epstein-Barr and human immunodeficiency viruses using DNA-polymerase from <i>Thermus thermophilus</i> . <b>1990</b> , 4, 435-43	7

1077	Complete analysis of HLA-DQB1 polymorphism and DR-DQ linkage disequilibrium by oligonucleotide typing. <b>1990</b> , 29, 64-77	42
1076	The Pit-1 transcription factor gene is a candidate for the murine Snell dwarf mutation. <b>1990</b> , 8, 586-90	190
1075	The structure of the human liver-type phosphofructokinase gene. <b>1990</b> , 7, 47-56	35
1074	Characterization of mutations in the factor VIII gene by direct sequencing of amplified genomic DNA. <b>1990</b> , 6, 65-71	80
1073	Prion dementia without characteristic pathology. <b>1990</b> , 336, 7-9	213
1072	Genus- and species-specific DNA probes to identify mycobacteria using the polymerase chain reaction. <b>1990</b> , 4, 87-105	48
1071	DNA sequence polymorphisms in Alu repeats. <b>1990</b> , 8, 271-8	107
1070	A putative approach for gene therapy against human immunodeficiency virus (HIV). <b>1990</b> , 32, 81-4	7
1069	Viral RNA and protein synthesis in two LLC-MK2 cell lines persistently infected with human parainfluenza virus 3. <b>1990</b> , 16, 1-16	10
1068	Methodologies for in vitro nucleic acid amplification and their applications. <b>1990</b> , 24, 235-51	17
1067	Expression of the cDNA for the beta subunit of human casein kinase II confers partial UV resistance on xeroderma pigmentosum cells. <b>1990</b> , 236, 85-97	53
1066	Adult T-cell leukaemia/lymphoma in Brazil and its relation to HTLV-I. <b>1990</b> , 336, 987-90	69
1065	Maximizing the expression of mammalian cytochrome P-450 monooxygenase activities in yeast cells. <b>1990</b> , 72, 463-72	109
1064	Isolation by polymerase chain reaction of a cDNA whose product partially complements the ultraviolet sensitivity of xeroderma pigmentosum group C cells. <b>1990</b> , 87, 295-8	21
1063	Rapid detection of pseudorabies virus genomic sequences in biological samples from infected pigs using polymerase chain reaction DNA amplification. <b>1990</b> , 23, 317-28	22
1062	Analysis of mitochondrial ND4 gene DNA sequence in Finnish families with Leber hereditary optic neuroretinopathy. <b>1990</b> , 8, 583-5	14
1061	Diverse forms of a receptor for acidic and basic fibroblast growth factors. <b>1990</b> , 10, 4728-36	333
1060	Direct diagnosis of carriers of Duchenne and Becker muscular dystrophy by amplification of lymphocyte RNA. <b>1990</b> , 336, 1523-6	79



1059	Structure and function of the protein tyrosine kinases. <b>1990</b> , 2, 97-111	16
1058	Aspartic acid at position 57 of the HLA-DQ beta chain is not protective against insulin-dependent diabetes mellitus in Japanese people. <b>1990</b> , 3, 167-74	10
1057	Shared molecular markers of genetic predisposition to seropositive rheumatoid arthritis. <b>1990</b> , 27, 90-9	20
1056	Polymerase chain reaction amplification of pseudorabies virus DNA from acutely and latently infected cells. <b>1990</b> , 24, 281-95	21
1055	Molecular cloning of a dog thyrotropin (TSH) receptor variant. <b>1990</b> , 68, R15-7	24
1054	The magic and challenge of DNA probes as diagnostic reagents. <b>1990</b> , 24, 217-33	10
1053	Specific identification of <i>Mycobacterium leprae</i> by the polymerase chain reaction. <b>1990</b> , 4, 205-10	12
1052	An in-frame insertion in the prion protein gene in familial Creutzfeldt-Jakob disease. <b>1990</b> , 7, 273-6	122
1051	Effect of acute ethanol drinking on alcohol metabolism in subjects with different ADH and ALDH genotypes. <b>1990</b> , 7, 413-8	14
1050	Isolation and characterisation of the <i>crnA-niiA-niaD</i> gene cluster for nitrate assimilation in <i>Aspergillus nidulans</i> . <b>1990</b> , 90, 181-92	212
1049	Gene targeting in murine embryonic stem cells: introduction of specific alterations into the mammalian genome. <b>1990</b> , 7, 219-27	27
1048	Proviral sequences detection of human immunodeficiency virus in seronegative subjects by polymerase chain reaction. <b>1990</b> , 4, 153-61	10
1047	Synthesis of digoxigenin-labelled DNA probe by polymerase chain reaction: application to Epstein-Barr virus and <i>Chlamydia trachomatis</i> . <b>1990</b> , 141, 331-5	27
1046	Use of DNA amplification for rapid detection of dengue viruses in midgut cells of individual mosquitoes. <b>1990</b> , 141, 455-7	3
1045	Sequence analysis of HLA-DR4B1 subtypes: additional first domain variability is detected by oligonucleotide hybridization and nucleotide sequencing. <b>1990</b> , 27, 136-44	90
1044	Genetic diversity in the major merozoite surface antigen of <i>Plasmodium falciparum</i> : high prevalence of a third polymorphic form detected in strains derived from malaria patients. <b>1990</b> , 91, 57-62	80
1043	The genetics of metabolic disorders of muscle. <b>1990</b> , 4, 621-64	
1042	Environmental carcinogenesis and biotechnology. <b>1990</b> , 16, 17-35	3

1041	Subtraction hybridization cDNA libraries from colon carcinoma and hepatic cancer. <b>1990</b> , 7, 64-70	50
1040	Oligonucleotides for polymerase chain reaction amplification and hybridization detection of Epstein-Barr virus DNA in clinical specimens. <b>1990</b> , 4, 397-407	38
1039	Empty and occupied insertion site of the truncated LINE-1 repeat located in the mouse serum albumin-encoding gene. <b>1990</b> , 88, 181-6	13
1038	Segmental amplification of the entire helical and telopeptide regions of the cDNA for human alpha 1 (I) collagen. <b>1990</b> , 10, 124-30	3
1037	Dominantly inherited expression of BID, an invariant undiversified T cell receptor delta chain. <b>1990</b> , 61, 397-405	38
1036	PCR analysis of DNA sequences in single cells: single sperm gene mapping and genetic disease diagnosis. <b>1990</b> , 8, 415-9	51
1035	Distribution of HLA class II alleles among Norwegian Caucasians. <b>1990</b> , 29, 275-81	110
1034	Phage lambda cDNA cloning vectors for subtractive hybridization, fusion-protein synthesis and Cre-loxP automatic plasmid subcloning. <b>1990</b> , 88, 25-36	109
1033	Transgenic farm animals. <b>1990</b> , 16, 155-70	10
1032	HLA-DP beta and susceptibility to multiple sclerosis: an analysis of caucasoid and Japanese patient populations. <b>1990</b> , 28, 365-72	56
1031	Recent advances in the study of ciliate genes. <b>1990</b> , 26, 2-14	12
1030	A single amino acid exchange alters the pharmacology of neonatal rat glycine receptor subunit. <b>1990</b> , 5, 867-73	178
1029	Molecular cloning of mouse acetylcholinesterase: tissue distribution of alternatively spliced mRNA species. <b>1990</b> , 5, 317-27	165
1028	Molecular cloning of DNA from specific chromosomal regions by microdissection and sequence-independent amplification of DNA. <b>1990</b> , 6, 243-51	71
1027	A simple and rapid method for HLA-DP genotyping by digestion of PCR-amplified DNA with allele-specific restriction endonucleases. <b>1990</b> , 27, 111-21	86
1026	Construction of an efficient overproducer clone of HinfI restriction endonuclease using the polymerase chain reaction. <b>1990</b> , 88, 1-5	26
1025	Homologous recombination is elevated in some Werner-like syndromes but not during normal in vitro or in vivo senescence of mammalian cells. <b>1990</b> , 237, 259-69	53
1024	Coupled reverse transcription-polymerase chain reaction (RT-PCR) as a sensitive and rapid method for isozyme genotyping. <b>1990</b> , 93, 271-5	69

1023	Cloning of cDNAs for human phosphoribosylpyrophosphate synthetases 1 and 2 and X chromosome localization of PRPS1 and PRPS2 genes. <b>1990</b> , 8, 555-61	53
1022	An investigation into the role of human papillomavirus in endobronchial papillary squamous tumours. <b>1990</b> , 84, 445-7	13
1021	Mapping the human amylase gene cluster on the proximal short arm of chromosome 1 using a highly informative (CA) <sub>n</sub> repeat. <b>1990</b> , 7, 97-102	34
1020	Structure and nucleotide sequence of the Bacillus subtilis phenylalanyl-tRNA synthetase genes. <b>1990</b> , 72, 725-34	30
1019	The androgen receptor: functional structure and expression in transplanted human prostate tumors and prostate tumor cell lines. <b>1990</b> , 37, 837-42	54
1018	Rapid detection of genomic variations in different strains of hantaviruses by polymerase chain reaction techniques and nucleotide sequence analysis. <b>1990</b> , 16, 127-36	23
1017	Mapping of the gene TCF2 coding for the transcription factor LFB3 to human chromosome 17 by polymerase chain reaction. <b>1990</b> , 8, 165-7	14
1016	Amplification of hepatitis delta virus RNA sequences by polymerase chain reaction: a tool for viral detection and cloning. <b>1990</b> , 4, 43-51	45
1015	Polymerase chain reaction for detection of the alpha-1-antitrypsin Z allele in chronic liver disease. <b>1990</b> , 10, 240-3	9
1014	Molecular diagnosis of genital HPV DNA types by polymerase chain reaction and sensitivity-standardized filter in situ hybridization in randomly sampled cohorts of Singapore women. <b>1990</b> , 4, 121-31	11
1013	Rapid isolation of human chromosome-specific DNA probes from a somatic cell hybrid. <b>1990</b> , 7, 257-63	58
1012	Detection of bovine enteric coronavirus in clinical specimens by hybridization with cDNA probes. <b>1990</b> , 4, 107-20	7
1011	Screening of seven putative 45,X subjects with deoxyribonucleic acid probes to detect low-level mosaicism for Y cell lines. <b>1990</b> , 162, 59-60	5
1010	Relationships amongst bluetongue viruses revealed by comparisons of capsid and outer coat protein nucleotide sequences. <b>1990</b> , 17, 31-52	72
1009	Structure of the human type IV collagen genes. <b>1990</b> , 580, 97-111	7
1008	Osteogenesis Imperfecta Type IV. <b>1990</b> , 580, 546-548	9
1007	DNA Sequence Analysis of Alpha 2(I) Collagen from an Individual with the Marfan Phenotype. <b>1990</b> , 580, 560-561	2
1006	Molecular studies of beta-thalassemia in Israel. Mutational analysis and expression studies. <b>1990</b> , 612, 98-105	19

1005	Prolactin-mediated regulation of gene transcription in lymphocytes. <b>1990</b> , 594, 146-55	33
1004	DNA probes for the identification of <i>Coxiella burnetti</i> strains. <b>1990</b> , 590, 445-58	26
1003	Gene amplification by polymerase chain reaction for detection of <i>Ehrlichia risticii</i> DNA in Potomac horse fever. <b>1990</b> , 590, 582-3	2
1002	Expression and cloning of complementary DNA for a human enzyme that repairs O6-methylguanine in DNA. <b>1990</b> , 213, 739-47	124
1001	Isolation and characterization of the ZWF1 gene of <i>Saccharomyces cerevisiae</i> , encoding glucose-6-phosphate dehydrogenase. <b>1990</b> , 96, 161-9	154
1000	Sex determination of bovine embryos using the polymerase chain reaction. <b>1990</b> , 1, 121-133	49
999	The amino acid sequence of the outer coat protein VP2 of neutralizing monoclonal antibody-resistant, virulent and attenuated bluetongue viruses. <b>1990</b> , 17, 161-72	44
998	Repeat unit sequence variation in minisatellites: a novel source of DNA polymorphism for studying variation and mutation by single molecule analysis. <b>1990</b> , 60, 473-85	428
997	Detection of specific t(14;18) chromosomal translocations in fixed tissues. <b>1990</b> , 21, 199-203	61
996	Absence of familial defective apolipoprotein B-100 in Finnish patients with elevated serum cholesterol. <b>1990</b> , 82, 177-83	63
995	Rapid typing of apolipoprotein B DNA polymorphisms by DNA amplification. Association between Ag epitopes of human apolipoprotein B-100, a signal peptide insertion/deletion polymorphism, and a 3' flanking DNA variable number of tandem repeats polymorphism of the apolipoprotein B gene. <b>1990</b> , 81, 225-32	70
994	Detection of minimal residual T cell acute lymphoblastic leukemia by flow cytometry. <b>1990</b> , 132, 275-86	21
993	Selective cloning of B cell hybridoma-specific rearranged immunoglobulin gene loci using the polymerase chain reaction. <b>1990</b> , 130, 49-55	15
992	Technical aspects of typing for HLA-DP alleles using allele-specific DNA in vitro amplification and sequence-specific oligonucleotide probes. Detection of single base mismatches. <b>1990</b> , 129, 175-85	30
991	Heterogenic mRNAs with an identical protein-coding region of the human embryonic myosin alkali light chain in skeletal muscle cells. <b>1990</b> , 211, 505-13	15
990	Molecular analysis of human acatalasemia. Identification of a splicing mutation. <b>1990</b> , 211, 383-93	66
989	Chronic progressive external ophthalmoplegia: a correlative study of mitochondrial DNA deletions and their phenotypic expression in muscle biopsies. <b>1990</b> , 100, 63-9	96
988	Differentiation of the mumps vaccine strains from the wild viruses by the nucleotide sequences of the P gene. <b>1990</b> , 8, 553-7	27

987	Molecular approaches to enteroviral diagnosis in idiopathic cardiomyopathy and myocarditis. <b>1990</b> , 15, 1688-94	104
986	Toward understanding the pathogenesis of enterovirus-induced cardiomyopathy: molecular and ultrastructural approaches. <b>1990</b> , 104, 32-7	16
985	Investigation of ovarian neoplasia of low malignant potential for human papillomavirus. <b>1990</b> , 38, 383-5	19
984	An extensively edited mitochondrial transcript in kinetoplastids encodes a protein homologous to ATPase subunit 6. <b>1990</b> , 61, 885-94	157
983	Deletion mutants are functionally dominant over wild-type mitochondrial genomes in skeletal muscle fiber segments in mitochondrial disease. <b>1990</b> , 62, 43-9	243
982	A developmental switch in thymic lymphocyte maturation potential occurs at the level of hematopoietic stem cells. <b>1990</b> , 62, 863-74	518
981	The MURF3 gene of <i>T. brucei</i> contains multiple domains of extensive editing and is homologous to a subunit of NADH dehydrogenase. <b>1990</b> , 62, 901-11	156
980	Primary structure and functional expression of rat and human stem cell factor DNAs. <b>1990</b> , 63, 203-11	578
979	Stem cell factor is encoded at the Sl locus of the mouse and is the ligand for the c-kit tyrosine kinase receptor. <b>1990</b> , 63, 213-24	1201
978	G1-specific cyclins of <i>S. cerevisiae</i> : cell cycle periodicity, regulation by mating pheromone, and association with the p34CDC28 protein kinase. <b>1990</b> , 62, 225-37	437
977	Homologous ribosomal protein genes on the human X and Y chromosomes: escape from X inactivation and possible implications for Turner syndrome. <b>1990</b> , 63, 1205-18	374
976	floricaula: a homeotic gene required for flower development in <i>antirrhinum majus</i> . <b>1990</b> , 63, 1311-22	736
975	daf-1, a <i>C. elegans</i> gene controlling dauer larva development, encodes a novel receptor protein kinase. <b>1990</b> , 61, 635-45	254
974	Identification of the region of T cell receptor beta chain that interacts with the self-superantigen MIs-1a. <b>1990</b> , 61, 1365-74	235
973	HIV-1 entry into quiescent primary lymphocytes: molecular analysis reveals a labile, latent viral structure. <b>1990</b> , 61, 213-22	1398
972	Cloning and characterization of CAP, the <i>S. cerevisiae</i> gene encoding the 70 kd adenyl cyclase-associated protein. <b>1990</b> , 61, 319-27	227
971	Subtyping hepatitis B virus DNA in free or integrated forms by amplification of the S-gene sequences by the polymerase chain reaction and single-track sequencing for adenine. <b>1990</b> , 28, 107-16	10
970	Identification of dengue sequences by genomic amplification: rapid diagnosis of dengue virus serotypes in peripheral blood. <b>1990</b> , 30, 41-54	89

969	Polymerase chain reaction for probe synthesis and for direct amplification in detection of bovine coronavirus. <b>1990</b> , 29, 243-55	16
968	Detection of DNA from infectious laryngotracheitis virus by colourimetric analyses of polymerase chain reactions. <b>1990</b> , 30, 251-9	16
967	Detection of pome fruit viroids by enzymatic cDNA amplification. <b>1990</b> , 30, 261-9	76
966	Multiple primer pairs polymerase chain reaction for the detection of human papillomavirus types. <b>1990</b> , 28, 59-65	13
965	The use of the polymerase chain reaction for the detection of Simian immunodeficiency virus in experimentally infected macaques. <b>1990</b> , 28, 85-99	27
964	Identifying bluetongue virus ribonucleic acid sequences by the polymerase chain reaction. <b>1990</b> , 28, 281-92	47
963	The production and purification of PCR-derived recombinant simian immunodeficiency virus p27 gag protein; its use in detecting serological and T-cell responses in macaques. <b>1990</b> , 28, 305-19	18
962	A new method for extracting DNA or RNA for polymerase chain reaction. <b>1990</b> , 27, 203-9	46
961	The application of polymerase chain reaction to the detection of rotaviruses in faeces. <b>1990</b> , 27, 29-37	86
960	<i>Thermus aquaticus</i> DNA polymerase-catalysed chain reaction for the detection of human papillomaviruses. <b>1990</b> , 27, 101-12	15
959	Direct amplification of DNA from colonies of <i>Bacillus subtilis</i> and <i>Escherichia coli</i> by the polymerase chain reaction. <b>1990</b> , 11, 121-126	38
958	The 7.5-kb plasmid present in <i>Chlamydia trachomatis</i> is not essential for the growth of this microorganism. <b>1990</b> , 23, 144-8	112
957	Diversity of the <i>Chlamydia trachomatis</i> common plasmid in biovars with different pathogenicity. <b>1990</b> , 23, 149-54	69
956	Direct sequencing of the amplified structural gene and promoter for the extended-broad-spectrum beta-lactamase TEM-9 (RHH-1) of <i>Klebsiella pneumoniae</i> . <b>1990</b> , 23, 27-34	105
955	Molecular analysis of hprt mutants induced by 2-cyanoethylene oxide in human lymphoblastoid cells. <b>1990</b> , 242, 195-208	33
954	Nucleotide sequence analysis of a provirus derived from an individual with tropical spastic paraparesis. <b>1990</b> , 8, 259-78	64
953	Abnormal plant development and down-regulation of phenylpropanoid biosynthesis in transgenic tobacco containing a heterologous phenylalanine ammonia-lyase gene. <b>1990</b> , 87, 9057-61	280
952	Molecular cloning, structure and expression of the yeast proliferating cell nuclear antigen gene. <b>1990</b> , 18, 261-5	169

951	Sequence analysis of arcelin 2, a lectin-like plant protein. <b>1990</b> , 86, 171-6	17
950	Cytogenetic results of chorionic villus sampling: high success rate and diagnostic accuracy in the United States collaborative study. <b>1990</b> , 162, 495-501	108
949	Effect of the menstrual cycle on detection and typing of human papillomavirus in uterine cervical cells. <b>1990</b> , 162, 1037-41	13
948	The dengue viruses. <b>1990</b> , 3, 376-96	401
947	Cloning of the mitogen-activated S6 kinase from rat liver reveals an enzyme of the second messenger subfamily. <b>1990</b> , 87, 7365-9	161
946	T-cell receptor gamma delta and gamma transgenic mice suggest a role of a gamma gene silencer in the generation of alpha beta T cells. <b>1990</b> , 87, 3067-71	112
945	Identical 3250-bp deletion between two AluI repeats in the ADA genes of unrelated ADA-SCID patients. <b>1990</b> , 7, 486-90	30
944	cDNA cloning of human oxysterol-binding protein and localization of the gene to human chromosome 11 and mouse chromosome 19. <b>1990</b> , 7, 65-74	72
943	Detection of <i>Borrelia burgdorferi</i> DNA by the polymerase chain reaction. <b>1990</b> , 4, 73-9	29
942	The polymerase chain reaction. A new method of using molecular genetics for medical diagnosis. <b>1990</b> , 322, 178-83	313
941	Analysis of HLA-DQ genotypes and susceptibility in insulin-dependent diabetes mellitus. <b>1990</b> , 322, 1836-41	294
940	The technique of polymerase chain reaction--a new diagnostic tool in microbiology and other scientific fields (review). <b>1990</b> , 273, 431-54	7
939	Structural analysis of human thyroid hormone receptor beta gene. <b>1990</b> , 71, 83-91	69
938	Polymerase chain reaction. A new tool for the study of viral infections in hepatology. <b>1990</b> , 11, 124-9	24
937	A testis-specific form of the human pyruvate dehydrogenase E1 alpha subunit is coded for by an intronless gene on chromosome 4. <b>1990</b> , 8, 225-32	180
936	Identification of an unusual deletion within homologous repeats of human reticulocyte beta-spectrin and probable peptide polymorphism. <b>1990</b> , 91, 297-302	3
935	Specificity of expression of the muscle and brain dystrophin gene promoters in muscle and brain cells. <b>1990</b> , 5, 881-8	65
934	Characterization of transgenic livestock production. <b>1990</b> , 7, 1-18	14

933	Molecular analysis of aldolase B genes in hereditary fructose intolerance. <b>1990</b> , 335, 306-9	103
932	Current methods for YAC clone characterization. <b>1990</b> , 7, 100-6	15
931	[Chronic myeloid leukemia: from cytogenetics to molecular biology]. <b>1990</b> , 11, 308-12	
930	Preembryo biopsy and analysis of blastomeres by in situ hybridization. <b>1990</b> , 163, 2013-9	54
929	Rapid Generation of Vector-Free Digoxigenin-dUTP Labeled Probes for Nonradioactive Hybridization Using the Polymerase Chain Reaction (PCR) Method. <b>1990</b> , 13, 255-256	23
928	Ligation-independent cloning of PCR products (LIC-PCR). <b>1990</b> , 18, 6069-74	942
927	Recombination events during integration of transfected DNA into normal human cells. <b>1990</b> , 18, 2733-8	66
926	The two candidate testis-determining Y genes (Zfy-1 and Zfy-2) are differentially expressed in fetal and adult mouse tissues. <b>1990</b> , 4, 63-74	81
925	Multilocus ordering strategies based on sperm typing. <b>1990</b> , 54, 49-77	18
924	The assignment of the genes coding for human complement components C6 and C7 to chromosome 5. <b>1990</b> , 54, 141-7	29
923	Use of DNA amplification (PCR) and direct DNA sequencing in the characterization of C4 alleles. <b>1990</b> , 54, 183-9	3
922	Detection and identification of E. coli producing heat-labile enterotoxin type I by enzymatic amplification of a specific DNA fragment. <b>1990</b> , 10, 31-4	47
921	Detection of Listeria species and Listeria monocytogenes using polymerase chain reaction. <b>1990</b> , 11, 158-62	147
920	An efficient screening morphological test for the identification and characterization of cyclic AMP-coupled hormone receptors. <b>1990</b> , 187, 104-10	9
919	Amplification of kinetoplast DNA as a tool in the detection and diagnosis of Leishmania. <b>1990</b> , 71, 267-75	303
918	Plasmodium falciparum: restricted polymorphism of T cell epitopes of the circumsporozoite protein in Brazil. <b>1990</b> , 71, 386-92	28
917	Regulation of the murine alpha A-crystallin promoter in transgenic mice. <b>1990</b> , 137, 68-76	75
916	Molecular approaches to studying helminth population genetics and phylogeny. <b>1990</b> , 20, 11-29	85



915	Expression in Escherichia coli of rat liver cytosolic glutathione S-transferase Yc cDNA. <b>1990</b> , 279, 116-21	5
914	Characterization of a superoxide dismutase gene from the archaeobacterium Methanobacterium thermoautotrophicum. <b>1990</b> , 283, 210-6	33
913	Sequencing and characterization of the 185 kDa cell surface antigen of Streptococcus mutans. <b>1990</b> , 35 Suppl, 33S-38S	24
912	mdr1/P-glycoprotein gene segments analyzed from various human leukemic cell lines exhibiting different multidrug resistance profiles. <b>1990</b> , 169, 796-802	33
911	There are two major types of hepatitis C virus in Japan. <b>1990</b> , 170, 1021-5	291
910	Striking similarity of the distribution patterns of the poly(ADP-ribose) polymerase and DNA polymerase beta among various mouse organs. <b>1990</b> , 172, 377-84	43
909	Removal of twelve C-terminal amino acids from firefly luciferase abolishes activity. <b>1990</b> , 172, 477-82	20
908	Gene and precursor structure of porcine C-type natriuretic peptide. <b>1990</b> , 172, 627-32	41
907	A T-to-A substitution in the E1 alpha subunit gene of the branched-chain alpha-ketoacid dehydrogenase complex in two cell lines derived from Menonite maple syrup urine disease patients. <b>1990</b> , 172, 646-51	36
906	In vitro amplification by polymerase chain reaction of a partial gene encoding the third subtype of alpha-2 adrenergic receptor in humans. <b>1990</b> , 172, 817-23	2
905	The complete nucleotide sequence of the gene coding for botulinum type C1 toxin in the C-ST phage genome. <b>1990</b> , 171, 1304-11	55
904	Differential splicing of Alzheimer's disease amyloid A4 precursor RNA in rat tissues: PreA4(695) mRNA is predominantly produced in rat and human brain. <b>1990</b> , 166, 1192-200	145
903	Human urate oxidase gene: cloning and partial sequence analysis reveal a stop codon within the fifth exon. <b>1990</b> , 171, 641-6	40
902	Isolation and functional expression of the human atrial natriuretic peptide clearance receptor cDNA. <b>1990</b> , 171, 796-803	96
901	Production of shorter mRNA for protein phosphatase 2A beta by alternative poly(A) addition. <b>1990</b> , 170, 169-75	9
900	Partial deletion of human alpha-galactosidase A gene in Fabry disease: direct repeat sequences as a possible cause of slipped mispairing. <b>1990</b> , 170, 296-300	29
899	Expression of a normal and variant Alzheimer's beta-protein gene in amyloid of hereditary cerebral hemorrhage, Dutch type: DNA and protein diagnostic assays. <b>1990</b> , 170, 301-7	62
898	Organization of the gene for iso-rANP, a rat B-type natriuretic peptide. <b>1990</b> , 171, 416-23	21

897	Identification of a common mutation in patients with medium-chain acyl-CoA dehydrogenase deficiency. <b>1990</b> , 171, 498-505	103
896	Amino acid sequence of human protein Z, a vitamin K-dependent plasma glycoprotein. <b>1990</b> , 172, 1139-44	80
895	Studies on the functional activity of the promoter for the human thyroid peroxidase gene. <b>1990</b> , 168, 281-7	15
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694	Detection of Epstein-Barr virus DNA by in Situ hybridization and polymerase chain reaction in salivary gland biopsy specimens from patients with Sjögren's syndrome. <b>1991</b> , 90, 286-294		86
693	Detection of epstein-barr virus DNA by in situ hybridization and polymerase chain reaction in salivary gland biopsy specimens from patients with sjögren's syndrome. <b>1991</b> , 90, 286-294		88
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691	Demonstration of a heterogeneous transcription pattern of thyroglobulin mRNA in human thyroid tissues. <b>1991</b> , 178, 586-92		30
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629	Ablation of "tolerance" and induction of diabetes by virus infection in viral antigen transgenic mice. <b>1991</b> , 65, 305-17	1078
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508	A mutation in the insulin receptor gene that impairs transport of the receptor to the plasma membrane and causes insulin-resistant diabetes. <b>1989</b> , 8, 2509-17	32
507	Two isotocin genes are present in the white sucker Catostomus commersoni both lacking introns in their protein coding regions. <b>1989</b> , 8, 2873-7	5
506	Intragenic recombination in a flagellin gene: characterization of the H1-j gene of Salmonella typhi. <b>1989</b> , 8, 3149-52	35
505	Transcriptional proofreading in Escherichia coli. <b>1989</b> , 8, 3153-8	10
504	Myelin-deficient rat: a point mutation in exon III (A---C, Thr75---Pro) of the myelin proteolipid protein causes dysmyelination and oligodendrocyte death. <b>1989</b> , 8, 3295-302	27
503	Multiple zones in the sequence of calreticulin (CRP55, calregulin, HACBP), a major calcium binding ER/SR protein. <b>1989</b> , 8, 3581-6	68
502	The smaller human VH gene families display remarkably little polymorphism. <b>1989</b> , 8, 3741-8	57

501	Analysis of a fushi tarazu autoregulatory element: multiple sequence elements contribute to enhancer activity. <b>1993</b> , 12, 1111-9	13
500	Two novel protein kinase C-related genes of fission yeast are essential for cell viability and implicated in cell shape control. <b>1993</b> , 12, 1987-95	42
499	The <i>Aspergillus nidulans</i> yA gene is regulated by abaA. <b>1993</b> , 12, 2039-48	27
498	Protocadherins: a large family of cadherin-related molecules in central nervous system. <b>1993</b> , 12, 2249-56	93
497	Thrombospondin related anonymous protein (TRAP) of <i>Plasmodium falciparum</i> binds specifically to sulfated glycoconjugates and to HepG2 hepatoma cells suggesting a role for this molecule in sporozoite invasion of hepatocytes. <b>1993</b> , 12, 2881-9	63
496	Members of a trypsin gene family in <i>Anopheles gambiae</i> are induced in the gut by blood meal. <b>1993</b> , 12, 2891-900	33
495	Polyprotein processing in African swine fever virus: a novel gene expression strategy for a DNA virus. <b>1993</b> , 12, 2977-87	39
494	Pathways for selection of 5' splice sites by U1 snRNPs and SF2/ASF. <b>1993</b> , 12, 3607-17	108
493	Olive: a key gene required for chlorophyll biosynthesis in <i>Antirrhinum majus</i> . <b>1993</b> , 12, 3711-9	43
492	The alpha-helical rod domain of human lamins A and C contains a chromatin binding site. <b>1993</b> , 12, 4413-24	42
491	Identification of the initiation sequence for viral-strand DNA synthesis of wheat dwarf virus. <b>1993</b> , 12, 4445-52	24
490	Specific interaction of IHF with RIBs, a class of bacterial repetitive DNA elements located at the 3' end of transcription units. <b>1993</b> , 12, 5019-27	30
489	Phospholipid transfer activity is relevant to but not sufficient for the essential function of the yeast SEC14 gene product. <b>1993</b> , 12, 4775-84	41
488	Epidermal egr-like zinc finger protein of <i>Drosophila</i> participates in myotube guidance. <b>1996</b> , 15, 1642-9	46
487	The var genes of <i>Plasmodium falciparum</i> are located in the subtelomeric region of most chromosomes. <b>1996</b> , 15, 4069-77	35
486	RNA editing changes the identity of a mitochondrial tRNA in marsupials. <b>1996</b> , 15, 5949-57	32
485	Regulation of the acetate operon in <i>Escherichia coli</i> : purification and functional characterization of the lclR repressor. <b>1991</b> , 10, 675-9	27
484	Virus-like genetic organization and expression strategy for a double-stranded RNA genetic element associated with biological control of chestnut blight. <b>1991</b> , 10, 731-9	67



483	The contribution of defective RNAs to the complexity of viral-encoded double-stranded RNA populations present in hypovirulent strains of the chestnut blight fungus <i>Cryphonectria parasitica</i> . <b>1991</b> , 10, 741-6	31
482	The NCS3 mutation: genetic evidence for the expression of ribosomal protein genes in <i>Zea mays</i> mitochondria. <b>1991</b> , 10, 1045-52	65
481	Optimal DNA sequence recognition by the Ultrabithorax homeodomain of <i>Drosophila</i> . <b>1991</b> , 10, 1179-86	84
480	Primary structure of a collagenic tail peptide of <i>Torpedo</i> acetylcholinesterase: co-expression with catalytic subunit induces the production of collagen-tailed forms in transfected cells. <b>1991</b> , 10, 1285-93	41
479	Variable deletion of exon 9 coding sequences in cystic fibrosis transmembrane conductance regulator gene mRNA transcripts in normal bronchial epithelium. <b>1991</b> , 10, 1355-63	34
478	One of three transmembrane stretches is sufficient for the functioning of the SecE protein, a membrane component of the <i>E. coli</i> secretion machinery. <b>1991</b> , 10, 1749-57	54
477	Cloning of a yeast U1 snRNP 70K protein homologue: functional conservation of an RNA-binding domain between humans and yeast. <b>1991</b> , 10, 2627-34	38
476	A new human p34 protein kinase, CDK2, identified by complementation of a <i>cdc28</i> mutation in <i>Saccharomyces cerevisiae</i> , is a homolog of <i>Xenopus</i> Eg1. <b>1991</b> , 10, 2653-9	87
475	Isolation and characterization of cDNA clones for plant cyclins. <b>1991</b> , 10, 2681-8	55
474	Novel genes for potential ligand-binding proteins in subregions of the olfactory mucosa. <b>1991</b> , 10, 2813-9	15
473	Transcriptional activation by heterodimers of the achaete-scute and daughterless gene products of <i>Drosophila</i> . <b>1991</b> , 10, 2965-73	84
472	In vitro deadenylation of mammalian mRNA by a HeLa cell 3' exonuclease. <b>1991</b> , 10, 3067-71	40
471	In vitro translation of <i>Plasmodium falciparum</i> aldolase is not initiated at an unusual site. <b>1991</b> , 10, 3095-7	1
470	RNA polymerase I can mediate expression of CAT and neo protein-coding genes in <i>Trypanosoma brucei</i> . <b>1991</b> , 10, 3387-97	48
469	<i>Trypanosoma brucei</i> glycosomal glyceraldehyde-3-phosphate dehydrogenase genes are stage-regulated at the transcriptional level. <b>1991</b> , 10, 3861-8	1
468	Mutation pattern of immunoglobulin transgenes is compatible with a model of somatic hypermutation in which targeting of the mutator is linked to the direction of DNA replication. <b>1991</b> , 10, 4331-41	19
467	A factor IX mutation, verified by direct genomic sequencing, causes haemophilia B by a novel mechanism. <b>1988</b> , 7, 3009-15	13
466	Infectious measles virus from cloned cDNA. <b>1990</b> , 9, 379-84	16

465	The tal gene undergoes chromosome translocation in T cell leukemia and potentially encodes a helix-loop-helix protein. <b>1990, 9, 415-24</b>	109
464	Intermediates of recombination during mating type switching in <i>Saccharomyces cerevisiae</i> . <b>1990, 9, 663-73</b>	221
463	Amino acid sequence of a novel integrin beta 4 subunit and primary expression of the mRNA in epithelial cells. <b>1990, 9, 757-63</b>	62
462	Distinct positive and negative elements control the limited hepatocyte and choroid plexus expression of transthyretin in transgenic mice. <b>1990, 9, 869-78</b>	44
461	Zfa is an expressed retroposon derived from an alternative transcript of the Zfx gene. <b>1990, 9, 1529-34</b>	36
460	HIV-1 replication is controlled at the level of T cell activation and proviral integration. <b>1990, 9, 1551-60</b>	343
459	Two distinct and frequently mutated regions of retinoblastoma protein are required for binding to SV40 T antigen. <b>1990, 9, 1815-22</b>	74
458	The ryh1 gene in the fission yeast <i>Schizosaccharomyces pombe</i> encoding a GTP-binding protein related to ras, rho and ypt: structure, expression and identification of its human homologue. <b>1990, 9, 1949-55</b>	26
457	Extracellular transport of cholera toxin B subunit using <i>Neisseria</i> IgA protease beta-domain: conformation-dependent outer membrane translocation. <b>1990, 9, 1991-9</b>	61
456	Sequence homologies, N sequence insertion and JH gene utilization in VHDJH joining: implications for the joining mechanism and the ontogenetic timing of Ly1 B cell and B-CLL progenitor generation. <b>1990, 9, 2133-40</b>	123
455	An essential <i>Saccharomyces cerevisiae</i> single-stranded DNA binding protein is homologous to the large subunit of human RP-A. <b>1990, 9, 2321-9</b>	80
454	Identification and cloning of two species of cadherins in bovine endothelial cells. <b>1990, 9, 2701-8</b>	23
453	The promoter for a variant surface glycoprotein gene expression site in <i>Trypanosoma brucei</i> . <b>1990, 9, 2791-801</b>	92
452	Identification of a consensus motif for retention of transmembrane proteins in the endoplasmic reticulum. <b>1990, 9, 3153-62</b>	336
451	Site-specific recombination of the tal-1 gene is a common occurrence in human T cell leukemia. <b>1990, 9, 3343-51</b>	79
450	Activated T cells transcribe an alternatively spliced mRNA encoding a soluble form of Qa-2 antigen. <b>1990, 9, 3839-47</b>	16
449	Cleavage-site preferences of Sindbis virus polyproteins containing the non-structural proteinase. Evidence for temporal regulation of polyprotein processing in vivo. <b>1990, 9, 2631-8</b>	87
448	Regulation of transcription of immunoglobulin germ-line gamma 1 RNA: analysis of the promoter/enhancer. <b>1992, 11, 145-55</b>	31

447	The mouse peroxisome proliferator activated receptor recognizes a response element in the 5' flanking sequence of the rat acyl CoA oxidase gene. <b>1992</b> , 11, 433-9	197
446	A second tyrosinase-related protein, TRP-2, maps to and is mutated at the mouse slaty locus. <b>1992</b> , 11, 527-35	79
445	Isolation of a hagfish gene that encodes a complement component. <b>1992</b> , 11, 829-37	15
444	Transfection of wild-type CFTR into cystic fibrosis lymphocytes restores chloride conductance at G1 of the cell cycle. <b>1992</b> , 11, 875-83	12
443	Horizontal transfer of a phosphatase gene as evidence for mosaic structure of the Salmonella genome. <b>1992</b> , 11, 1309-16	40
442	Genomic variability and alternative splicing generate multiple PML/RAR alpha transcripts that encode aberrant PML proteins and PML/RAR alpha isoforms in acute promyelocytic leukaemia. <b>1992</b> , 11, 1397-407	68
441	Analysis of the BiP gene and identification of an ER retention signal in Schizosaccharomyces pombe. <b>1992</b> , 11, 1583-91	32
440	Primary structure and functional expression of the Na/Ca,K-exchanger from bovine rod photoreceptors. <b>1992</b> , 11, 1689-95	31
439	A confined variable region confers ligand specificity on fibroblast growth factor receptors: implications for the origin of the immunoglobulin fold. <b>1992</b> , 11, 1885-90	56
438	Empty spiracles, a gap gene containing a homeobox involved in Drosophila head development. <b>1992</b> , 11, 2247-59	42
437	Gene inactivation of Pf11-1 of Plasmodium falciparum by chromosome breakage and healing: identification of a gametocyte-specific protein with a potential role in gametogenesis. <b>1992</b> , 11, 2293-301	28
436	The Caenorhabditis elegans sex determining gene fem-3 is regulated post-transcriptionally. <b>1992</b> , 11, 2303-10	29
435	Selective extracellular release of cholera toxin B subunit by Escherichia coli: dissection of Neisseria Iga beta-mediated outer membrane transport. <b>1992</b> , 11, 2327-35	44
434	Selection for high-level chloroquine resistance results in deamplification of the pfmdr1 gene and increased sensitivity to mefloquine in Plasmodium falciparum. <b>1992</b> , 11, 3067-75	51
433	Poliovirus RNA recombination: mechanistic studies in the absence of selection. <b>1992</b> , 11, 3135-45	74
432	Primary and secondary structure of the pore-forming peptide of pathogenic Entamoeba histolytica. <b>1992</b> , 11, 3501-6	23
431	The carboxy-terminal exon of the adenovirus E1A protein is required for E4F-dependent transcription activation. <b>1992</b> , 11, 3347-54	14
430	The protein kinase homologue Ste20p is required to link the yeast pheromone response G-protein beta gamma subunits to downstream signalling components. <b>1992</b> , 11, 4815-24	172

429	Molecular cloning of human growth inhibitory factor cDNA and its down-regulation in Alzheimer's disease. <b>1992</b> , 11, 4843-50	33
428	Biased reading frames of pre-existing DH--JH coding joints and preferential nucleotide insertions at VH--DJH signal joints of excision products of immunoglobulin heavy chain gene rearrangements. <b>1992</b> , 11, 4869-75	9
427	Regulatory pathways governing modulation of fungal gene expression by a virulence-attenuating mycovirus. <b>1992</b> , 11, 4539-48	22
426	Transcription of human c-myc in permeabilized nuclei is associated with formation of Z-DNA in three discrete regions of the gene. <b>1992</b> , 11, 4653-63	68
425	Polymerase chain reaction-a novel method for analyzing specific DNA sequences. <b>1988</b> , 149, 594-5	
424	Genetic characterization of an alloalbumin, albumin Kashmir, using gene amplification and allele-specific oligonucleotides. <b>1990</b> , 266, 615-7	9
423	Temperature gradient gel electrophoresis analysis of the beta-NGF gene in schizophrenia. <b>1995</b> , 20, 199-209	3
422	Specificity and nucleotyping studies of a gp50-based polymerase chain reaction assay for detection of pseudorabies virus. <b>1997</b> , 61, 157-60	2
421	Development of PCR-based techniques to identify porcine transmissible gastroenteritis coronavirus isolates. <b>1997</b> , 61, 167-72	6
420	Determination of the calcium-binding sites of the C2 domain of protein kinase Calpha that are critical for its translocation to the plasma membrane. <b>1999</b> , 337 ( Pt 3), 513-21	21
419	Evaluation of conventional and radiometric fecal culture and a commercial DNA probe for diagnosis of Mycobacterium paratuberculosis infections in cattle. <b>1992</b> , 56, 148-53	65
418	Proviral detection and serology in bovine leukemia virus-exposed normal cattle and cattle with lymphoma. <b>1992</b> , 56, 339-48	26
417	Development of PCR-based tests for the identification of North American isolates of epizootic haemorrhagic disease virus. <b>1996</b> , 60, 59-64	7
416	Herpes simplex virus ocular infections: current concepts of acute, latent and reactivated disease. <b>1990</b> , 88, 727-96	9
415	A cDNA encoding feline CD4 has a unique repeat sequence downstream of the V-like region. <b>1992</b> , 75, 74-9	18
414	B-cell proliferation initiated by Ia cross-linking and sustained by interleukins leads to class switching but not somatic mutation in vitro. <b>1992</b> , 75, 116-21	16
413	Abnormal TNF production in prediabetic BB rats is linked to defective CD45R expression. <b>1992</b> , 77, 1-6	8
412	Inhibition of interleukin-5 gene expression by dexamethasone. <b>1992</b> , 77, 494-9	84

411	Identification of T-cell stimulatory antigens of Chlamydia trachomatis using synovial fluid-derived T-cell clones. <b>1993</b> , 79, 513-9	18
410	Interleukin-5 is necessary for eosinophilia induced by cyclophosphamide in immunized mice. <b>1993</b> , 79, 452-8	12
409	Molecular forensics: applications, implications and limitations. <b>1989</b> , 141, 668-72	
408	Reverse splicing of the Tetrahymena IVS: evidence for multiple reaction sites in the 23S rRNA. <b>1995</b> , 1, 478-90	28
407	Constitutive IL-2 expression in HTLV-I-infected leukaemic T cell lines. <b>1991</b> , 84, 415-21	7
406	Mutation at codon 322 in the human acetylcholinesterase (ACHE) gene accounts for YT blood group polymorphism. <b>1993</b> , 52, 928-36	52
405	Diverse growth hormone receptor gene mutations in Laron syndrome. <b>1993</b> , 52, 998-1005	73
404	Association of the widespread A149P hereditary fructose intolerance mutation with newly identified sequence polymorphisms in the aldolase B gene. <b>1993</b> , 52, 835-40	11
403	Variations among Japanese of the factor IX gene (F9) detected by PCR-denaturing gradient gel electrophoresis. <b>1993</b> , 52, 167-75	7
402	Identification of the M1101K mutation in the cystic fibrosis transmembrane conductance regulator (CFTR) gene and complete detection of cystic fibrosis mutations in the Hutterite population. <b>1993</b> , 52, 609-15	46
401	Mutations in the paired domain of the human PAX3 gene cause Klein-Waardenburg syndrome (WS-III) as well as Waardenburg syndrome type I (WS-I). <b>1993</b> , 52, 455-62	185
400	Linkage localization of X-linked Charcot-Marie-Tooth disease. <b>1993</b> , 52, 312-8	51
399	1992 William Allan Award address. <b>1993</b> , 53, 1-5	2
398	Sensitivity of single-strand conformation polymorphism (SSCP) analysis in detecting p53 point mutations in tumors with mixed cell populations. <b>1993</b> , 52, 1273-5	25
397	Three RFLPs defining a haplotype associated with the common mutation in human medium-chain acyl-CoA dehydrogenase (MCAD) deficiency occur in Alu repeats. <b>1993</b> , 52, 1111-21	13
396	Molecular studies of trisomy 18. <b>1993</b> , 52, 1139-44	31
395	Analysis of four microsatellite markers on the long arm of chromosome 9 by meiotic recombination in flow-sorted single sperm. <b>1993</b> , 52, 1191-9	7
394	High prevalence of the point mutation in exon 6 of the xeroderma pigmentosum group A-complementing (XPAC) gene in xeroderma pigmentosum group A patients in Tunisia. <b>1993</b> , 53, 1001-6	39

393	Exon skipping and translation in patients with frameshift deletions in the dystrophin gene. <b>1993</b> , 53, 1007-15	62
392	Individual DNA identification from ancient human remains. <b>1993</b> , 53, 638-43	43
391	Factor IXMadrid 2: a deletion/insertion in factor IX gene which abolishes the sequence of the donor junction at the exon IV-intron d splice site. <b>1992</b> , 50, 434-7	12
390	Dominant negative and loss of function mutations of the c-kit (mast/stem cell growth factor receptor) proto-oncogene in human piebaldism. <b>1992</b> , 50, 261-9	111
389	Amplification and characterization of the retinoblastoma gene VNTR by PCR. <b>1992</b> , 50, 371-81	9
388	Cystic fibrosis in the Basque country: high frequency of mutation delta F508 in patients of Basque origin. <b>1992</b> , 50, 404-10	20
387	Molecular characterization of beta-thalassemia in the Sardinian population. <b>1992</b> , 50, 422-6	78
386	The origin of glucose-6-phosphate-dehydrogenase (G6PD) polymorphisms in African-Americans. <b>1992</b> , 50, 394-8	19
385	A nonsense mutation in the LDL receptor gene leads to familial hypercholesterolemia in the Druze sect. <b>1992</b> , 50, 427-33	26
384	A multiple-tubes approach for accurate genotyping of very small DNA samples by using PCR: statistical considerations. <b>1992</b> , 50, 347-59	134
383	Mutations of the tyrosinase gene in Indo-Pakistani patients with type I (tyrosinase-deficient) oculocutaneous albinism (OCA). <b>1993</b> , 53, 1173-9	25
382	PCR-based cystic fibrosis (CF) carrier screening in a first-year medical student biochemistry laboratory. <b>1993</b> , 53, 1352-5	3
381	Association of a nonsense mutation (W1282X), the most common mutation in the Ashkenazi Jewish cystic fibrosis patients in Israel, with presentation of severe disease. <b>1992</b> , 50, 222-8	138
380	Two amino acid substitutions in apolipoprotein B are in complete allelic association with the antigen group (x/y) polymorphism: evidence for little recombination in the 3' end of the human gene. <b>1992</b> , 50, 208-21	27
379	The gene for human erythrocyte protein 4.2 maps to chromosome 15q15. <b>1992</b> , 50, 71-5	21
378	Parental origin of factor IX gene mutations, and their distribution in the gene. <b>1992</b> , 50, 164-73	20
377	A molecular defect in human protoporphyria. <b>1992</b> , 50, 1203-10	77
376	Molecular genetic study of human arginase deficiency. <b>1992</b> , 50, 1281-90	23

375	Band-specific localization of the microsatellite at D13S71 by microdissection and enzymatic amplification. <b>1992</b> , 50, 1031-7	1
374	DNA mutation associated with the human butyrylcholinesterase K-variant and its linkage to the atypical variant mutation and other polymorphic sites. <b>1992</b> , 50, 1086-103	147
373	Identification of a nonframeshift 84-bp deletion in exon 13 of the cystic fibrosis gene. <b>1992</b> , 50, 1022-6	11
372	Mucopolysaccharidosis type VI: identification of three mutations in the arylsulfatase B gene of patients with the severe and mild phenotypes provides molecular evidence for genetic heterogeneity. <b>1992</b> , 50, 795-800	40
371	Heteroplasmic mtDNA mutation (T----G) at 8993 can cause Leigh disease when the percentage of abnormal mtDNA is high. <b>1992</b> , 50, 852-8	367
370	An exclusion map for pre-eclampsia: assuming autosomal recessive inheritance. <b>1992</b> , 50, 749-57	41
369	Fast screening methods to detect mutations of spectrin in subjects with hereditary elliptocytosis. <b>1992</b> , 51, 440-2	4
368	Molecular abnormalities of a human glucose-6-phosphate dehydrogenase variant associated with undetectable enzyme activity and immunologically cross-reacting material. <b>1992</b> , 51, 386-95	13
367	Characterization of a deletion at Xq27-q28 associated with unbalanced inactivation of the nonmutant X chromosome. <b>1992</b> , 51, 316-22	33
366	A new disease-related mutation for mitochondrial encephalopathy lactic acidosis and strokelike episodes (MELAS) syndrome affects the ND4 subunit of the respiratory complex I. <b>1992</b> , 51, 457-68	50
365	Osteogenesis imperfecta type I is commonly due to a COL1A1 null allele of type I collagen. <b>1992</b> , 51, 508-15	61
364	High frequency of mutations in exon 10 of the porphobilinogen deaminase gene in patients with a CRIM-positive subtype of acute intermittent porphyria. <b>1992</b> , 51, 660-5	31
363	Pearson syndrome and mitochondrial encephalomyopathy in a patient with a deletion of mtDNA. <b>1991</b> , 48, 39-42	185
362	A 3-bp deletion in the rhodopsin gene in a family with autosomal dominant retinitis pigmentosa. <b>1991</b> , 48, 26-30	110
361	A mutant allele common to the type I adenine phosphoribosyltransferase deficiency in Japanese subjects. <b>1991</b> , 48, 103-7	17
360	Identification of two different point mutations associated with the fluoride-resistant phenotype for human butyrylcholinesterase. <b>1992</b> , 51, 821-8	37
359	SSCP and segregation analysis of the human type X collagen gene (COL10A1) in heritable forms of chondrodysplasia. <b>1992</b> , 51, 841-9	23
358	Mutation analysis of the cystic fibrosis transmembrane regulator gene in Native American populations of the southwest. <b>1992</b> , 51, 736-40	9

357	Genotype-phenotype relationships in human red/green color-vision defects: molecular and psychophysical studies. <b>1992</b> , 51, 687-700	97
356	The search for mutations in the gene for the beta subunit of the cGMP phosphodiesterase (PDEB) in patients with autosomal recessive retinitis pigmentosa. <b>1992</b> , 51, 755-62	13
355	A new source of polymorphic DNA markers for sperm typing: analysis of microsatellite repeats in single cells. <b>1992</b> , 51, 985-91	23
354	Mutations of the KIT (mast/stem cell growth factor receptor) proto-oncogene account for a continuous range of phenotypes in human piebaldism. <b>1992</b> , 51, 1058-65	70
353	Structure and chromosomal localization of the human antidiuretic hormone receptor gene. <b>1992</b> , 51, 1078-83	90
352	Substitution of arginine for glycine 325 in the collagen alpha 5 (IV) chain associated with X-linked Alport syndrome: characterization of the mutation by direct sequencing of PCR-amplified lymphoblast cDNA fragments. <b>1992</b> , 51, 135-42	51
351	Exclusion of the gelsolin gene on 9q32-34 as the cause of familial lattice corneal dystrophy type I. <b>1992</b> , 51, 156-60	7
350	Evidence, from combined segregation and linkage analysis, that a variant of the angiotensin I-converting enzyme (ACE) gene controls plasma ACE levels. <b>1992</b> , 51, 197-205	738
349	Genetic mapping of the human tryptophan hydroxylase gene on chromosome 11, using an intronic conformational polymorphism. <b>1992</b> , 51, 1366-71	47
348	Three novel mutations in the liver-type arginase gene in three unrelated Japanese patients with argininemia. <b>1992</b> , 51, 1406-12	22
347	Characteristics of polymorphism at a VNTR locus 3' to the apolipoprotein B gene in five human populations. <b>1992</b> , 51, 1325-33	47
346	A mutation in the second nucleotide binding fold of the cystic fibrosis gene. <b>1991</b> , 48, 608-12	94
345	Km typing with PCR: application to population screening. <b>1991</b> , 48, 613-20	10
344	mtDNA depletion with variable tissue expression: a novel genetic abnormality in mitochondrial diseases. <b>1991</b> , 48, 492-501	447
343	Tay-Sachs disease in Moroccan Jews: deletion of a phenylalanine in the alpha-subunit of beta-hexosaminidase. <b>1991</b> , 48, 412-9	25
342	Rapid detection of the A----G(8344) mutation of mtDNA in Italian families with myoclonus epilepsy and ragged-red fibers (MERRF). <b>1991</b> , 48, 203-11	103
341	No severe bottleneck during human evolution: evidence from two apolipoprotein C-II deficiency alleles. <b>1991</b> , 48, 383-9	27
340	A dimorphic 4-bp repeat in the cystic fibrosis gene is in absolute linkage disequilibrium with the delta F508 mutation: implications for prenatal diagnosis and mutation origin. <b>1991</b> , 48, 223-6	52



339	Two frameshift mutations in the cystic fibrosis gene. <b>1991</b> , 48, 227-31	35
338	Homozygous tyrosinase gene mutation in an American black with tyrosinase-negative (type IA) oculocutaneous albinism. <b>1991</b> , 48, 318-24	33
337	The efficiency of multilocus DNA fingerprint probes for individualization and establishment of family relationships, determined from extensive casework. <b>1991</b> , 48, 824-40	104
336	Identification of a mutation in the arylsulfatase A gene of a patient with adult-type metachromatic leukodystrophy. <b>1991</b> , 48, 971-8	25
335	Structure of the chromosomal gene and cDNAs coding for lactase-phlorizin hydrolase in humans with adult-type hypolactasia or persistence of lactase. <b>1991</b> , 48, 889-902	79
334	Characterization of the molecular basis of the alpha 1-antitrypsin F allele. <b>1991</b> , 48, 1154-8	24
333	Identification of RNA splicing errors resulting in human ornithine transcarbamylase deficiency. <b>1991</b> , 48, 1105-14	53
332	Identification of a missense mutation in one allele of a patient with Pompe disease, and use of endonuclease digestion of PCR-amplified RNA to demonstrate lack of mRNA expression from the second allele. <b>1991</b> , 49, 635-45	43
331	DNA diagnosis for hereditary cerebral hemorrhage with amyloidosis (Dutch type). <b>1991</b> , 49, 518-21	44
330	Respiration-deficient cells are caused by a single point mutation in the mitochondrial tRNA-Leu (UUR) gene in mitochondrial myopathy, encephalopathy, lactic acidosis, and strokelike episodes (MELAS). <b>1991</b> , 49, 590-9	67
329	Molecular characterization of the human delta-aminolevulinate dehydratase 2 (ALAD2) allele: implications for molecular screening of individuals for genetic susceptibility to lead poisoning. <b>1991</b> , 49, 757-63	90
328	DNA typing and genetic mapping with trimeric and tetrameric tandem repeats. <b>1991</b> , 49, 746-56	693
327	A tRNA(Lys) mutation in the mtDNA is the causal genetic lesion underlying myoclonic epilepsy and ragged-red fiber (MERRF) syndrome. <b>1991</b> , 49, 715-22	61
326	Homozygosity for a newly identified missense mutation in a patient with very severe combined immunodeficiency due to adenosine deaminase deficiency (ADA-SCID). <b>1991</b> , 49, 878-85	18
325	delta-Aminolevulinate dehydratase deficient porphyria: identification of the molecular lesions in a severely affected homozygote. <b>1991</b> , 49, 167-74	42
324	Three different frameshift mutations of the tyrosinase gene in type IA oculocutaneous albinism. <b>1991</b> , 49, 199-206	28
323	Molecular characterization of four different classes of mutations in the isovaleryl-CoA dehydrogenase gene responsible for isovaleric acidemia. <b>1991</b> , 49, 147-57	20
322	Linkage disequilibrium between two highly polymorphic microsatellites. <b>1991</b> , 49, 966-71	23

321	Carrier detection and prenatal diagnosis in Duchenne and Becker muscular dystrophy families, using dinucleotide repeat polymorphisms. <b>1991</b> , 49, 951-60	156
320	Genomic structure of the human prion protein gene. <b>1991</b> , 49, 320-9	87
319	A common Lithuanian mutation causing familial hypercholesterolemia in Ashkenazi Jews. <b>1991</b> , 49, 443-9	79
318	Occurrence of a Tyr393----Asn (Y393N) mutation in the E1 alpha gene of the branched-chain alpha-keto acid dehydrogenase complex in maple syrup urine disease patients from a Mennonite population. <b>1991</b> , 49, 429-34	31
317	Pyruvate dehydrogenase deficiency due to a 20-bp deletion in exon II of the pyruvate dehydrogenase (PDH) E1 alpha gene. <b>1991</b> , 49, 414-20	19
316	Human monoamine oxidase A gene determines levels of enzyme activity. <b>1991</b> , 49, 383-92	183
315	Direct detection of dystrophin gene rearrangements by analysis of dystrophin mRNA in peripheral blood lymphocytes. <b>1991</b> , 49, 298-310	120
314	Molecular heterogeneity of acute intermittent porphyria: identification of four additional mutations resulting in the CRIM-negative subtype of the disease. <b>1991</b> , 49, 421-8	38
313	A PCR artifact: generation of heteroduplexes. <b>1989</b> , 45, 337-9	156
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311	Fine-structure genetic mapping of human chromosomes using the polymerase chain reaction on single sperm: experimental design considerations. <b>1989</b> , 45, 21-32	32
310	High-resolution analysis of a hypervariable region in the human apolipoprotein B gene. <b>1989</b> , 45, 458-64	119
309	Pelizaeus-Merzbacher disease: an X-linked neurologic disorder of myelin metabolism with a novel mutation in the gene encoding proteolipid protein. <b>1989</b> , 45, 435-42	128
308	The putative testis-determining factor and related genes are expressed as discrete-sized transcripts in adult gonadal and somatic tissues. <b>1989</b> , 45, 942-52	33
307	The molecular basis for Duchenne versus Becker muscular dystrophy: correlation of severity with type of deletion. <b>1989</b> , 45, 498-506	682
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305	Identification of a frameshift mutation responsible for the silent phenotype of human serum cholinesterase, Gly 117 (GGT----GGAG). <b>1990</b> , 46, 934-42	43
304	Cystic fibrosis mutations in the Hutterite Brethren. <b>1990</b> , 46, 983-7	9

303	Linkage of the PvuII polymorphism with the common Jewish mutation for Gaucher disease. <b>1990</b> , 46, 902-5	31
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301	Familial hypothyroidism caused by a nonsense mutation in the thyroid-stimulating hormone beta-subunit gene. <b>1990</b> , 46, 988-93	64
300	Recurrence of lethal osteogenesis imperfecta due to parental mosaicism for a dominant mutation in a human type I collagen gene (COL1A1). <b>1990</b> , 46, 591-601	133
299	Genotype assignment in Gaucher disease by selective amplification of the active glucocerebrosidase gene. <b>1990</b> , 46, 527-32	42
298	A long-range restriction map of the human chromosome 19q13 region: close physical linkage between CKMM and the ERCC1 and ERCC2 genes. <b>1990</b> , 46, 492-501	33
297	A new mitochondrial disease associated with mitochondrial DNA heteroplasmy. <b>1990</b> , 46, 428-33	715
296	Characterization of the normal alpha 1-antitrypsin allele Vmunich: a variant associated with a unique protein isoelectric focusing pattern. <b>1990</b> , 46, 810-6	6
295	Ashkenazi-Jewish and non-Jewish adult GM2 gangliosidosis patients share a common genetic defect. <b>1990</b> , 46, 817-21	37
294	Identification of point mutations in the alpha-galactosidase A gene in classical and atypical hemizygotes with Fabry disease. <b>1990</b> , 47, 784-9	112
293	Heterozygous mutations at the mut locus in fibroblasts with mut0 methylmalonic acidemia identified by polymerase-chain-reaction cDNA cloning. <b>1990</b> , 47, 808-14	34
292	Pyruvate dehydrogenase deficiency caused by deletion of a 7-bp repeat sequence in the E1 alpha gene. <b>1990</b> , 47, 286-93	46
291	Gaucher disease type III (Norrbottnian type) is caused by a single mutation in exon 10 of the glucocerebrosidase gene. <b>1990</b> , 47, 275-8	78
290	Segregation of mitochondrial genomes in a heteroplasmic lineage with Leber hereditary optic neuroretinopathy. <b>1990</b> , 47, 95-100	51
289	Haplotype analysis of the human apolipoprotein B mutation associated with familial defective apolipoprotein B100. <b>1990</b> , 47, 712-20	56
288	An example of Leber hereditary optic neuropathy not involving a mutation in the mitochondrial ND4 gene. <b>1990</b> , 47, 629-34	29
287	Variable expression of osteogenesis imperfecta in a nuclear family is explained by somatic mosaicism for a lethal point mutation in the alpha 1(I) gene (COL1A1) of type I collagen in a parent. <b>1990</b> , 46, 1034-40	82
286	Sequence data of the rare deficient alpha 1-antitrypsin variant PI Zaugsburg. <b>1990</b> , 46, 1158-62	13

285	Exclusion of linkage between the human apolipoprotein B gene and abetalipoproteinemia. <b>1990</b> , 46, 1141-8	15
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283	An exonic point mutation of the androgen receptor gene in a family with complete androgen insensitivity. <b>1990</b> , 46, 1095-100	46
282	The molecular basis of beta-thalassemia in Thailand: application to prenatal diagnosis. <b>1990</b> , 47, 369-75	49
281	A new point mutation in the beta-hexosaminidase alpha subunit gene responsible for infantile Tay-Sachs disease in a non-Jewish Caucasian patient (a Kpn mutant). <b>1990</b> , 47, 568-74	10
280	Hereditary fructose intolerance caused by a nonsense mutation of the aldolase B gene. <b>1990</b> , 47, 562-7	15
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275	Nucleus-driven multiple large-scale deletions of the human mitochondrial genome: a new autosomal dominant disease. <b>1990</b> , 47, 904-14	110
274	Role of apolipoprotein E and B gene variation in determining response of lipid, lipoprotein, and apolipoprotein levels to increased dietary cholesterol. <b>1991</b> , 49, 1145-54	53
273	A cluster of highly polymorphic dinucleotide repeats in intron 17b of the cystic fibrosis transmembrane conductance regulator (CFTR) gene. <b>1991</b> , 49, 1256-62	51
272	Presymptomatic detection or exclusion of prion protein gene defects in families with inherited prion diseases. <b>1991</b> , 49, 1351-4	16
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270	Molecular cloning of the human UMP synthase gene and characterization of point mutations in two hereditary orotic aciduria families. <b>1997</b> , 60, 525-39	42
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264	Abundant class of human DNA polymorphisms which can be typed using the polymerase chain reaction. <b>1989</b> , 44, 388-96	2108
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262	An Asian-specific 9-bp deletion of mitochondrial DNA is frequently found in Polynesians. <b>1989</b> , 44, 504-10	108
261	Analysis of liver/bone/kidney alkaline phosphatase mRNA, DNA, and enzymatic activity in cultured skin fibroblasts from 14 unrelated patients with severe hypophosphatasia. <b>1989</b> , 44, 686-94	26
260	Rare deficiency types of alpha 1-antitrypsin: electrophoretic variation and DNA haplotypes. <b>1989</b> , 44, 844-54	21
259	Identification of Hb D-Punjab gene: application of DNA amplification in the study of abnormal hemoglobins. <b>1989</b> , 44, 886-9	22
258	In-frame single codon deletion in the Mmalton deficiency allele of alpha 1-antitrypsin. <b>1989</b> , 44, 894-902	37
257	CFTR haplotype analysis reveals genetic heterogeneity in the etiology of congenital bilateral aplasia of the vas deferens. <b>1995</b> , 56, 1359-66	38
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252	Identification of new mutations in the Cu/Zn superoxide dismutase gene of patients with familial amyotrophic lateral sclerosis. <b>1995</b> , 56, 592-6	82
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250	Linkage of early-onset osteoarthritis and chondrocalcinosis to human chromosome 8q. <b>1995</b> , 56, 692-7	49

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246	Discordant patterns of linkage disequilibrium of the peptide-transporter loci within the HLA class II region. <b>1995</b> , 57, 1436-44	96
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244	A pseudodeficiency allele (D152N) of the human beta-glucuronidase gene. <b>1995</b> , 57, 798-804	16
243	Transformation of rabbit vascular smooth muscle cells by human cytomegalovirus morphological transforming region I. <b>1997</b> , 151, 1387-95	9
242	Vascular endothelial growth factor/vascular permeability factor (VEGF/VPF) in normal and atherosclerotic human arteries. <b>1997</b> , 150, 1673-85	134
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240	Expression of p53 protein related to the presence of human papillomavirus infection in precancer lesions of the larynx. <b>1995</b> , 146, 599-604	27
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238	Analysis of T cell receptor-gamma gene rearrangements by denaturing gradient gel electrophoresis of GC-clamped polymerase chain reaction products. Correlation with tumor-specific sequences. <b>1995</b> , 146, 46-55	77
237	Analysis of DNA in fresh and fixed tissue by the polymerase chain reaction. <b>1990</b> , 136, 541-8	119
236	C-myc proto-oncogene amplification detected by polymerase chain reaction in archival human ovarian carcinomas. <b>1990</b> , 137, 653-8	28
235	Expression of the bcl-2 oncogene protein is not specific for the 14;18 chromosomal translocation. <b>1990</b> , 137, 225-32	43 <sup>1</sup>
234	Detection of Philadelphia chromosome-positive cells from glass slide smears using the polymerase chain reaction. <b>1990</b> , 137, 1-6	21
233	Human papillomavirus detection in paraffin-embedded cervical carcinomas and metastases of the carcinomas by the polymerase chain reaction. <b>1989</b> , 135, 703-9	67
232	Alternative splicing of human VCAM-1 in activated vascular endothelium. <b>1991</b> , 138, 815-20	89

231	Detection of loss of heterozygosity in formalin-fixed paraffin-embedded tumor specimens by the polymerase chain reaction. <b>1991</b> , 138, 279-84	27
230	Association of Epstein-Barr virus with undifferentiated gastric carcinomas with intense lymphoid infiltration. Lymphoepithelioma-like carcinoma. <b>1991</b> , 139, 469-74	210
229	Detection, localization, and quantitation of HIV-associated antigens in intestinal biopsies from patients with HIV. <b>1991</b> , 139, 823-30	78
228	Expression of B-cell antigens by Hodgkin's and Reed-Sternberg cells. <b>1991</b> , 139, 701-7	94
227	Detection of intratumoral aromatase in breast carcinomas. An immunohistochemical study with clinicopathologic correlation. <b>1992</b> , 140, 337-43	91
226	Human papillomavirus infection and anal carcinoma. Retrospective analysis by in situ hybridization and the polymerase chain reaction. <b>1992</b> , 140, 1345-55	80
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223	Detection of clonal B cell populations in paraffin-embedded tissues by polymerase chain reaction. <b>1993</b> , 143, 230-9	88
222	Association of Epstein-Barr virus with gastric carcinoma with lymphoid stroma. <b>1993</b> , 143, 1063-71	99
221	Detection of epidermal growth factor receptor mRNA in tissue sections from biopsy specimens using in situ polymerase chain reaction. <b>1994</b> , 144, 7-14	47
220	Survey of the distribution of a newly characterized receptor for advanced glycation end products in tissues. <b>1993</b> , 143, 1699-712	521
219	Latent infection induced with cottontail rabbit papillomavirus. A model for human papillomavirus latency. <b>1994</b> , 144, 1167-71	44
218	Primary cultures of rat islet capillary endothelial cells. Constitutive and cytokine-inducible macrophagelike nitric oxide synthases are expressed and activities regulated by glucose concentration. <b>1994</b> , 145, 685-95	61
217	Molecular analysis of a series of alleles in humans with reduced activity at the triosephosphate isomerase locus. <b>1996</b> , 58, 308-16	32
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