## CITATION REPORT List of articles citing

Site-directed mutagenesis by overlap extension using the polymerase chain reaction

DOI: 10.1016/0378-1119(89)90358-2 Gene, 1989, 77, 51-9.

Source: https://exaly.com/paper-pdf/20863092/citation-report.pdf

Version: 2024-04-19

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2171	Characterization of a Hybrid Nonribosomal PeptideCarbohydrate Biosynthetic Pathway in Photorhabdus luminescens.		
2170	Internal Dynamics of the 3PyrrolineNOxide Ring in Spin-Labeled Proteins.		
2169	Molecular Mechanism of Conductance Enhancement in Narrow Cation-Selective Membrane Channels.		
2168	Brighter Red Fluorescent Proteins by Rational Design of Triple-Decker Motif.		
2167	The Inosine Monophosphate Dehydrogenase, GuaB2, Is a Vulnerable New Bactericidal Drug Target for Tuberculosis.		
2166	•		
2165	Enantioselective Synthesis of Chiral Vicinal Amino Alcohols Using Amine Dehydrogenases.		
2164	Structural Basis of Leader Peptide Recognition in Lasso Peptide Biosynthesis Pathway.		
2163	Distinct Autocatalytic -N-Methylating Precursors Expand the Borosin RiPP Family of Peptide Natural Products.		
2162	Genome Mining Reveals High Topological Diversity of Ester-Containing Peptides and Divergent Evolution of ATP-Grasp Macrocyclases.		
2161	EXPERIMENTAL TESTS CONCERNING THE USE OF THE TUNGSTEN-COPPER COUPLE DESIGN CONCEPT ON THE DIVERTOR SYSTEM. <b>1983</b> , 491-496		1
2160	Engineering hybrid genes without the use of restriction enzymes: gene splicing by overlap extension. <i>Gene</i> , <b>1989</b> , 77, 61-8	3.8	2698
2159	Quantitation of mRNA by the polymerase chain reaction. <b>1989</b> , 86, 9717-21		1419
2158	A family of dispersed repeats in Mycobacterium leprae. <b>1990</b> , 4, 1745-51		41
2157	DNA mutagenesis and recombination. <b>1990</b> , 344, 793-4		38
2156	Genetic diversity in Sargasso Sea bacterioplankton. <b>1990</b> , 345, 60-3		1262
2155	Residues of the variable region of the T-cell-receptor beta-chain that interact with S. aureus toxin superantigens. <b>1990</b> , 346, 471-3		277

2154	Redox regulation of fos and jun DNA-binding activity in vitro. <b>1990</b> , 249, 1157-61	1459
2153	A DNA ligase gene in the Copenhagen strain of vaccinia virus is nonessential for viral replication and recombination. <b>1990</b> , 179, 267-75	53
2152	Locus-specific cDNA cloning in the class I multigene family: structure of H-2Dr and H-2Ds. <b>1990</b> , 32, 456-9	11
2151	Site-directed mutagenesis by complementary-strand synthesis using a closing oligonucleotide and double-stranded DNA templates. <b>1990</b> , 185, 194-200	15
2150	Structural features of the colony-stimulating factor 1 receptor that affect its association with phosphatidylinositol 3-kinase <b>1990</b> , 9, 2415-2421	100
2149	Construction of recombinant DNA molecules by the use of a single stranded DNA generated by the polymerase chain reaction: its application to chimeric hepatitis A virus/poliovirus subgenomic cDNA. <b>1990</b> , 18, 913-8	13
2148	Binding of the WilmsMtumor locus zinc finger protein to the EGR-1 consensus sequence. <b>1990</b> , 250, 1259-62	528
2147	Lesion-induced increase in nerve growth factor mRNA is mediated by c-fos. <b>1990</b> , 87, 3899-903	268
2146	Solid phase in vitro mutagenesis using plasmid DNA template. <b>1990</b> , 18, 5107-12	32
2145	U1 small nuclear RNA plays a direct role in the formation of a rev-regulated human immunodeficiency virus env mRNA that remains unspliced. <b>1990</b> , 87, 7598-602	144
2144	Site-directed mutagenesis reveals a liver transcription factor essential for the albumin transcriptional enhancer. <b>1990</b> , 87, 5469-73	102
2143	Detection of bovine kappa-casein genomic variants by the polymerase chain reaction method. <b>1990</b> , 21, 215-6	31
2142	Site-directed mutagenesis using a double-stranded DNA fragment as a PCR primer. <b>1990</b> , 18, 4947	49
2141	Saturation mutagenesis of specific codons: elimination of molecules with stop codons from mixed pools of DNA. <i>Gene</i> , <b>1990</b> , 88, 113-5	6
2140	Maximizing the expression of mammalian cytochrome P-450 monooxygenase activities in yeast cells. <b>1990</b> , 72, 463-72	109
2139	A general method for rapid site-directed mutagenesis using the polymerase chain reaction. <i>Gene</i> , 1990, 96, 125-8	693
2138	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
2137	Direct amplication of DNA from colonies of Bacillus subtilis and Escherichia coli by the polymerase chain reaction. <b>1990</b> , 11, 121-126	38

2136	A general and rapid mutagenesis method using polymerase chain reaction. <i>Gene</i> , <b>1990</b> , 91, 143-7	3.8	126
2135	Enzymes depending on the pterin molybdenum cofactor: sequence families, spectroscopic properties of molybdenum and possible cofactor-binding domains. <b>1991</b> , 1057, 157-85		130
2134	Amino acid substitutions in the SP1 zinc finger domain alter the DNA binding affinity to cognate SP1 target site. <b>1991</b> , 175, 333-8		11
2133	Production of mutant dihydrofolate reductases of Lactobacillus casei for nuclear magnetic resonance spectroscopy. <i>Gene</i> , <b>1991</b> , 100, 219-24	3.8	5
2132	A general method for introducing a series of mutations into cloned DNA using the polymerase chain reaction. <i>Gene</i> , <b>1991</b> , 102, 67-70	3.8	273
2131	A marker-coupled method for site-directed mutagenesis. <i>Gene</i> , <b>1991</b> , 103, 73-7	3.8	13
2130	Functional properties of strychnine-sensitive glycine receptors expressed in Xenopus oocytes injected with a single mRNA. <b>1991</b> , 11, 28-40		26
2129	Transcriptional repression mediated by the WT1 Wilms tumor gene product. <b>1991</b> , 253, 1550-3		436
2128	Full length mouse glycophorin gene constructed using recombinant polymerase chain reaction. <b>1991</b> , 177, 202-8		7
2127	Determination of DNA binding specificities of mutated zinc finger domains. <b>1991</b> , 283, 23-6		14
2126	ADP/ATP translocator is essential only for anaerobic growth of yeast Saccharomyces cerevisiae. <b>1991</b> , 289, 159-62		79
2125	Analysis of the integration function of the streptomycete bacteriophage phi C31. <b>1991</b> , 222, 897-908		185
2124	A biochemical perspective of the polymerase chain reaction. <b>1991</b> , 30, 2735-47		134
2123	Location of a threonine residue in the alpha-subunit M2 transmembrane segment that determines the ion flow through the acetylcholine receptor channel. <b>1991</b> , 243, 69-74		120
2122	Immunoglobulin complementarity-determining region grafting by recombinant polymerase chain reaction to generate humanised monoclonal antibodies. <i>Gene</i> , <b>1991</b> , 101, 297-302	3.8	10
2121	Polymerase chain reaction: applications in environmental microbiology. <b>1991</b> , 45, 137-61		176
2120	Saccharomyces cerevisiae a- and alpha-agglutinin: characterization of their molecular interaction <b>1991</b> , 10, 4081-4088		74
2119	Identification of the staphylococcal enterotoxin A superantigen binding site in the beta 1 domain of the human histocompatibility antigen HLA-DR. <b>1991</b> , 88, 9954-8		107

## (1991-1991)

2118	cAMP-inducible chloride conductance in mouse fibroblast lines stably expressing the human cystic fibrosis transmembrane conductance regulator. <b>1991</b> , 88, 7500-4	95
2117	Oocyte-specific factors bind a conserved upstream sequence required for mouse zona pellucida promoter activity. <b>1991</b> , 11, 6197-204	57
2116	Translation initiation factor 5A and its hypusine modification are essential for cell viability in the yeast Saccharomyces cerevisiae. <b>1991</b> , 11, 3105-14	325
2115	Activation of the erythropoietin receptor promoter by transcription factor GATA-1. <b>1991</b> , 88, 10638-41	192
2114	Mutational analysis of yeast vacuolar H(+)-ATPase. 1991, 88, 1938-42	147
2113	The cytoplasmic region of the erythropoietin receptor contains nonoverlapping positive and negative growth-regulatory domains. <b>1991</b> , 11, 1980-7	265
2112	Leukotriene A4 hydrolase: determination of the three zinc-binding ligands by site-directed mutagenesis and zinc analysis. <b>1991</b> , 88, 7620-4	110
2111	Identification of two genes, kpsM and kpsT, in region 3 of the polysialic acid gene cluster of Escherichia coli K1. <b>1991</b> , 173, 4603-10	103
<b>2</b> 110	Evidence for spontaneous circle formation in the replication of the satellite RNA of tobacco ringspot virus. <b>1991</b> , 180, 23-30	29
2109	Effects of random mutagenesis upon potato spindle tuber viroid replication and symptom expression. <b>1991</b> , 185, 18-31	43
2108	Site-directed mutagenesis of the conserved histidine residue of phosphoenolpyruvate carboxylase. His138 is essential for the second partial reaction. <b>1991</b> , 202, 797-803	39
2107	Generation of a 1.5-kb cDNA fragment of the hepatitis C virus genome by overlap extension. <b>1991</b> , 35, 228-31	3
2106	PCR based gene engineering of the Vibrio harveyi lux operon and the Escherichia coli trp operon provides for biochemically functional native and fused gene products. <b>1991</b> , 226, 41-8	26
2105	Polymerase chain reaction facilitates the cloning, CDR-grafting, and rapid expression of a murine monoclonal antibody directed against the CD18 component of leukocyte integrins. <b>1991</b> , 19, 2471-6	62
2104	Chimeric human immunodeficiency virus type 1/type 2 reverse transcriptases display reversed sensitivity to nonnucleoside analog inhibitors. <b>1991</b> , 88, 9878-82	107
2103	Regulation of interleukin-2 gene enhancer activity by the T cell accessory molecule CD28. <b>1991</b> , 251, 313-6	545
2102	Activation of early gene expression in T lymphocytes by Oct-1 and an inducible protein, OAP40. <b>1991</b> , 254, 558-62	147
2101	Characterization of a cofactor that regulates dimerization of a mammalian homeodomain protein. <b>1991</b> , 254, 1762-7	212

2100	Thioredoxin regulates the DNA binding activity of NF-kappa B by reduction of a disulphide bond involving cysteine 62. <b>1992</b> , 20, 3821-30	727
2099	Rapid screening of cloned DNA fragments for specific mutations. <b>1992</b> , 20, 915	4
2098	Amplification and cloning of sugarcane sucrose synthase cDNA by anchored PCR. <b>1992</b> , 2, 70-5	4
2097	The first disulphide loop of the rabbit growth hormone receptor is required for binding to the hormone. <b>1992</b> , 9, 213-20	22
2096	Amplification of protein expression in a cell free system. <b>1992</b> , 20, 5979-83	16
2095	Permuteins of interleukin 1 betaa simplified approach for the construction of permutated proteins having new termini. <b>1992</b> , 5, 427-31	24
2094	A general and fast method to generate multiple site directed mutations. <b>1992</b> , 20, 376	194
2093	Human immunodeficiency virus type 1 pol gene mutations which cause decreased susceptibility to 2MM ideoxycytidine. <b>1992</b> , 36, 153-7	180
2092	Characterization of two antigenic sites recognized by neutralizing monoclonal antibodies directed against the fusion glycoprotein of human respiratory syncytial virus. <b>1992</b> , 73 ( Pt 9), 2225-34	119
2091	Evolutionarily conserved Ets family members display distinct DNA binding specificities. <b>1992</b> , 175, 1391-9	152
2090	Enzymatic defect in "X-linked" sideroblastic anemia: molecular evidence for erythroid delta-aminolevulinate synthase deficiency. <b>1992</b> , 89, 4028-32	151
2089	Identification of a negative regulatory element involved in tissue-specific expression of mouse renin genes. <b>1992</b> , 89, 885-9	37
2088	Gene conversion in Neisseria gonorrhoeae: evidence for its role in pilus antigenic variation. <b>1992</b> , 89, 5366-70	95
2087	Expression patterns of gamma-aminobutyric acid type A receptor subunit mRNAs in primary cultures of granule neurons and astrocytes from neonatal rat cerebella. <b>1992</b> , 89, 9344-8	85
2086	The C-terminal domain of 72 kDa gelatinase A is not required for catalysis, but is essential for membrane activation and modulates interactions with tissue inhibitors of metalloproteinases. <b>1992</b> , 283 ( Pt 3), 637-41	248
2085	Biosynthesis of phosphatidylinositol-glycan (PI-G)-anchored membrane proteins in cell-free systems: cleavage of the nascent protein and addition of the PI-G moiety depend on the size of the COOH-terminal signal peptide. <b>1992</b> , 89, 1350-3	28
2084	Mutated alpha subunit of the Gq protein induces malignant transformation in NIH 3T3 cells. <b>1992</b> , 12, 4687-93	157
2083	Cell-type-specific expression of the rat thyroperoxidase promoter indicates common mechanisms for thyroid-specific gene expression. <b>1992</b> , 12, 576-88	201

2082	Two conserved essential motifs of the murine immunoglobulin lambda enhancers bind B-cell-specific factors. <b>1992</b> , 12, 309-20		32
2081	Selection of optimal kappa B/Rel DNA-binding motifs: interaction of both subunits of NF-kappa B with DNA is required for transcriptional activation. <b>1992</b> , 12, 4412-21		478
2080	Novel DNA-binding proteins regulate intestine-specific transcription of the sucrase-isomaltase gene. <b>1992</b> , 12, 3614-27		116
2079	PU.1 recruits a second nuclear factor to a site important for immunoglobulin kappa 3Menhancer activity. <b>1992</b> , 12, 368-78		342
2078	Regulation of T-cell lymphokine gene transcription by the accessory molecule CD28. <b>1992</b> , 12, 4357-63		104
2077	Functional characterization of the NF-kappa B p65 transcriptional activator and an alternatively spliced derivative. <b>1992</b> , 12, 444-54		190
2076	Functional interactions between putative intramembrane charged residues in the lactose permease of Escherichia coli. <b>1992</b> , 89, 10547-51		139
2075	A novel procedure for quantitative polymerase chain reaction by coamplification of competitive templates. <i>Gene</i> , <b>1992</b> , 122, 313-20	3.8	234
2074	Strategies for the genetic manipulation of Saccharomyces cerevisiae. <b>1992</b> , 12, 157-88		14
2073	Identification of the phosphoribulokinase sugar phosphate binding domain. <b>1992</b> , 31, 3715-9		30
2072	Site-directed mutations that alter the inhibitory activity of the tissue inhibitor of metalloproteinases-1: importance of the N-terminal region between cysteine 3 and cysteine 13. <b>1992</b> , 31, 10146-52		75
2071	Ligation-free gene synthesis by PCR: synthesis and mutagenesis at multiple loci of a chimeric gene encoding OmpA signal peptide and hirudin. <i>Gene</i> , <b>1992</b> , 110, 89-94	3.8	24
2070	Nerve growth factor mediates signal transduction through trk homodimer receptors. <b>1992</b> , 9, 1067-79		432
2069	Cloning of the rat M3, M4 and M5 muscarinic acetylcholine receptor genes by the polymerase chain reaction (PCR) and the pharmacological characterization of the expressed genes. <b>1992</b> , 51, 955-71		29
2068	Use of quantitative polymerase chain reaction to quantitate cytokine messenger RNA molecules. <b>1992</b> , 29, 1229-36		40
2067	Critical role of HLA-DR beta 1 residue 58 in multiple polymorphic epitopes recognized by xenogeneic and allogeneic antibodies. <b>1992</b> , 35, 18-28		22
2066	Distinct agonist- and antagonist-binding sites on the glycine receptor. <b>1992</b> , 9, 491-6		121
2065	Heterologous gene expression in Aspergillus niger: a glucoamylase-porcine pancreatic prophospholipase A2 fusion protein is secreted and processed to yield mature enzyme. <i>Gene</i> , <b>1992</b> , 122, 155-61	3.8	64

2064	Cloning, expression and tissue distribution of the gene encoding rat fibroblast growth factor receptor subtype 4. <i>Gene</i> , <b>1992</b> , 120, 291-5	36
2063	Identification of residues involved in polymorphic antibody binding epitopes on HLA-DR molecules. <b>1992</b> , 33, 47-56	9
2062	Mutagenesis around residue 176 on HLA-B*0702 characterizes multiple distinct epitopes for anti-HLA antibodies. <b>1992</b> , 35, 125-31	19
2061	Novel vectors for the expression of antibody molecules using variable regions generated by polymerase chain reaction. <b>1992</b> , 152, 89-104	157
2060	Intramolecular masking of the nuclear location signal and dimerization domain in the precursor for the p50 NF-kappa B subunit. <b>1992</b> , 68, 1121-33	370
2059	All-trans and 9-cis retinoic acid induction of CRABPII transcription is mediated by RAR-RXR heterodimers bound to DR1 and DR2 repeated motifs. <b>1992</b> , 71, 73-85	406
2058	Polymerase chain reaction (PCR) techniques for site-directed mutagenesis. <b>1992</b> , 10, 535-47	79
2057	Ligation-independent cloning of glutathione S-transferase fusion genes for expression in Escherichia coli. <i>Gene</i> , <b>1992</b> , 112, 37-43	47
2056	Site-specific mutations of nicotinic acetylcholine receptor at the lipid-protein interface dramatically alter ion channel gating. <b>1992</b> , 62, 61-3	39
2055	Identification of functional arginines in human angiogenin by site-directed mutagenesis. <b>1992</b> , 31, 12477-85	73
2054	Importance of asparagine-61 and asparagine-109 to the angiogenic activity of human angiogenin. <b>1992</b> , 31, 8022-9	61
2053	Site-directed mutagenesis and deletion of the carboxyl terminus of Escherichia coli ribonucleotide reductase protein R2. Effects on catalytic activity and subunit interaction. <b>1992</b> , 31, 4801-7	145
2052	N-linked glycosylation of beta-amyloid precursor protein. <b>1992</b> , 189, 1667-73	67
2051	A highly conserved tyrosine residue at codon 845 within the kinase domain is not required for the transforming activity of human epidermal growth factor receptor. <b>1992</b> , 186, 768-74	107
2050	Expression of c-fos and c-jun mRNA in the developing chicken lens: relationship to cell proliferation, quiescence, and differentiation. <b>1992</b> , 199, 147-53	42
2049	Effects of substitution of aspartate-440 and tryptophan-487 in the thiamin diphosphate binding region of pyruvate decarboxylase from Zymomonas mobilis. <b>1992</b> , 296, 95-8	37
2048	Two excited states in aequorin bioluminescence induced by tryptophan modification. <b>1992</b> , 301, 197-201	68
2047	Mutations in a putative agonist binding region of the AMPA-selective glutamate receptor channel. <b>1992</b> , 308, 253-7	69

2046	Intrinsic activity of precursor forms of HIV-1 proteinase. <b>1992</b> , 314, 449-54	22
2045	Substitution of a single bacteriophage T3 residue in bacteriophage T7 RNA polymerase at position 748 results in a switch in promoter specificity. <b>1992</b> , 228, 506-15	64
2044	Cell cycle synchrony in the developing chicken lens epithelium. <b>1992</b> , 152, 315-22	11
2043	Site-directed mutagenesis of herpesvirus glycoprotein phosphorylation sites by recombination polymerase chain reaction. <b>1992</b> , 1, 205-7	45
2042	Promoter elements required for positive control of transcription of the Escherichia coli uhpT gene. <b>1992</b> , 174, 2763-70	39
2041	Role of ATP in the intramitochondrial sorting of cytochrome c1 and the adenine nucleotide translocator <b>1992</b> , 11, 4787-4794	67
2040	Light regulatory sequences are located within the 5? portion of the Fed-1 message sequence <b>1992</b> , 11, 2311-2317	52
2039	Transcriptional enhancer factor (TEF)-1 and its cell-specific co-activator activate human papillomavirus-16 E6 and E7 oncogene transcription in keratinocytes and cervical carcinoma cells 1992, 11, 2271-2281	142
2038	A single amino-acid change in the iron-sulphur protein subunit of succinate dehydrogenase confers resistance to carboxin in Ustilago maydis. <b>1992</b> , 22, 117-21	112
2037	Charge balance in the alpha-hydroxyacid dehydrogenase vacuole: an acid test. <b>1992</b> , 1, 892-901	17
2036	Selection and analysis of non-interactive mutants in the Escherichia coli tryptophan synthase alpha subunit. <b>1992</b> , 233, 129-35	5
2035	A transcriptional hierarchy involved in mammalian cell-type specification. <b>1992</b> , 355, 457-61	392
2034	MHC class II interaction with CD4 mediated by a region analogous to the MHC class I binding site for CD8. <b>1992</b> , 356, 796-8	323
2033	Association of tyrosine kinase p56lck with CD4 inhibits the induction of growth through the alpha beta T-cell receptor. <b>1992</b> , 358, 328-31	146
2032	A human HOX4B regulatory element provides head-specific expression in Drosophila embryos. <b>1992</b> , 358, 345-7	91
2031	Identification by mutagenesis of a Mg(2+)-block site of the NMDA receptor channel. <b>1992</b> , 358, 673-5	222
2030	Distinct developmental patterns of expression of rat alpha 1, alpha 5, gamma 2S, and gamma 2L gamma-aminobutyric acidA receptor subunit mRNAs in vivo and in vitro. <b>1992</b> , 59, 62-72	91
2029	Building antibodies from their genes. <b>1992</b> , 130, 41-68	131

2028	Mutation of serine residue 318 in the class C 🗄 lactamase of Enterobacter cloacae 908R. <b>1992</b> , 92, 95-100	2
2027	Lipase of Staphylococcus hyicus: analysis of the catalytic triad by site-directed mutagenesis. <b>1992</b> , 100, 249-54	24
2026	Metabolic engineering of Candida tropicalis for the production of long-chain dicarboxylic acids. <b>1992</b> , 10, 894-8	176
2025	Hepatitis A virus polyprotein synthesis initiates from two alternative AUG codons. <b>1992</b> , 186, 609-18	40
2024	Effect of myristoylation on p27 nef subcellular distribution and suppression of HIV-LTR transcription. <b>1992</b> , 187, 46-55	98
2023	Identification of amino acid residues critical for endonuclease and integration activities of HIV-1 IN protein in vitro. <b>1992</b> , 188, 459-68	199
2022	Nuclear and nucleolar targeting signals of Semliki Forest virus nonstructural protein nsP2. <b>1992</b> , 189, 462-73	76
2021	Temperature-sensitive polioviruses containing mutations in RNA polymerase. <b>1992</b> , 189, 568-82	21
2020	Mutations in the central polypurine tract of HIV-1 result in delayed replication. <b>1992</b> , 190, 440-2	58
2019	Genomische Analyse des K-Casein-Locus bei Eterreichischen Zuchtstieren1. <b>1992</b> , 109, 311-315	3
2018	Differential expression of the two delta-crystallin genes in lens and non-lens tissues: shift favoring delta 2 expression from embryonic to adult chickens. <b>1993</b> , 196, 114-23	23
2017	Complementarity-determining region 2 is implicated in the binding of staphylococcal protein A to human immunoglobulin VHIII variable regions. <b>1993</b> , 23, 2682-6	45
2016	Extracellular targeting of the vacuolar tobacco proteins AP24, chitinase and beta-1,3-glucanase in transgenic plants. <b>1993</b> , 21, 583-93	129
2015	Recombination initiated by double-strand breaks. <b>1993</b> , 23, 305-14	37
2014	RPB7, one of two dissociable subunits of yeast RNA polymerase II, is essential for cell viability. <b>1993</b> , 9, 295-9	76
2013	Cysteine scanning mutagenesis of putative transmembrane helices IX and X in the lactose permease of Escherichia coli. <b>1993</b> , 2, 1024-33	104
2012	Multi-ion pore behaviour in the CFTR chloride channel. <b>1993</b> , 366, 79-82	226
2011	A truncated glucoamylase gene fusion for heterologous protein secretion from Aspergillus niger. <b>1993</b> , 107, 267-71	57

2010	Two different genes from Schwanniomyces occidentalis determine ribosomal resistance to cycloheximide. <b>1993</b> , 213, 849-57	19
2009	Efficient secretion of attacin from insect fat-body cells requires proper processing of the prosequence. <b>1993</b> , 214, 287-93	15
2008	Determinants for the enhanced thermostability of hybrid (1-3,1-4)-beta-glucanases. <b>1993</b> , 216, 829-34	33
2007	Multiple structural determinants of voltage-dependent magnesium block in recombinant NMDA receptors. <b>1993</b> , 32, 1203-11	71
2006	Receptor-binding capability of pancreatic phospholipase A2 is separable from its enzymatic activity. <b>1993</b> , 324, 349-52	16
2005	Bioluminescence of the Ca(2+)-binding photoprotein, aequorin, after histidine modification. <b>1993</b> , 320, 267-70	41
2004	Effects of amino acid substitution on the thermal stability of MS2 capsids lacking genomic RNA. <b>1993</b> , 334, 355-9	40
2003	Complementation in situ of the yeast plasma membrane H(+)-ATPase gene pma1 by an H(+)-ATPase gene from a heterologous species. <b>1993</b> , 317, 216-22	56
2002	Rescue of signaling by a chimeric protein containing the cytoplasmic domain of CD45. <b>1993</b> , 260, 544-6	102
2001	Interaction of P-selectin (CD62) and its cellular ligand: analysis of critical residues. <b>1993</b> , 32, 2960-6	70
2000	Role of arginine 115 in fatty acid activation and formaldehyde dehydrogenase activity of human class III alcohol dehydrogenase. <b>1993</b> , 32, 5139-44	14
1999	Use of site-directed fluorescence labeling to study proximity relationships in the lactose permease of Escherichia coli. <b>1993</b> , 32, 12273-8	134
1998	Antibody production in the baculovirus expression system. <b>1993</b> , 10, 103-12	14
1997	Site-directed mutagenesis of putative active-site amino acid residues of 3,2-trans-enoyl-CoA isomerase, conserved within the low-homology isomerase/hydratase enzyme family. <b>1993</b> , 32, 11405-12	42
1996	Properties of interacting aspartic acid and lysine residues in the lactose permease of Escherichia coli. <b>1993</b> , 32, 10027-35	92
1995	Identification of hyaluronic acid binding sites in the extracellular domain of CD44. <b>1993,</b> 122, 257-64	367
1994	Differential roles for three conserved histidine residues within the large subunit of carbamoyl phosphate synthetase. <b>1993</b> , 32, 232-40	30
1993	Gene splicing by overlap extension. <b>1993</b> , 217, 270-9	385

1992	Role of the charge pair aspartic acid-237-lysine-358 in the lactose permease of Escherichia coli. <b>1993</b> , 32, 3139-45		121
1991	The polymerase chain reaction and its application to filamentous fungi. <b>1993</b> , 97, 769-781		51
1990	Cloning and expression in Escherichia coli of the cDNA encoding human cardiac troponin I. <i>Gene</i> , <b>1993</b> , 131, 287-92	.8	6
1989	The ligand-binding domain in metabotropic glutamate receptors is related to bacterial periplasmic binding proteins. <b>1993</b> , 11, 41-52		630
1988	Developmental regulation and butyrate-inducible transcription of the Xenopus histone H1(0) promoter. <i>Gene</i> , <b>1993</b> , 128, 173-80	.8	51
1987	HLA-DR beta chain residues that are predicted to be located in the floor of the peptide-binding groove contribute to antibody-binding epitopes. <b>1993</b> , 37, 51-8		20
1986	Building antibodies from their genes. <b>1993</b> , 36, 19-47		2
1985	Two related recombinases are required for site-specific recombination at dif and cer in E. coli K12. <b>1993</b> , 75, 351-61		294
1984	Identification of revertants for the cystic fibrosis delta F508 mutation using STE6-CFTR chimeras in yeast. <b>1993</b> , 73, 335-46		162
1983	Developmental expression of the alpha 6 GABAA receptor subunit mRNA occurs only after cerebellar granule cell migration. <b>1993</b> , 75, 91-103		88
1982	Limitations and modifications of quantitative polymerase chain reaction. Application to measurement of multiple mRNAs present in small amounts of sample RNA. <b>1993</b> , 165, 207-16		56
1981	Transthyretin mutation Leu-55-Pro significantly alters tetramer stability and increases amyloidogenicity. <b>1993</b> , 32, 12119-27		185
1980	A macrophage migration inhibitory factor is expressed in the differentiating cells of the eye lens. <b>1993</b> , 90, 1272-5		160
1979	Vectors for the expression of PCR-amplified immunoglobulin variable domains with human constant regions. <b>1993</b> , 21, 2921-9		15
1978	Histidine-226 is part of the pH sensor of NhaA, a Na+/H+ antiporter in Escherichia coli. <b>1993</b> , 90, 1212-6		140
1977	Mutation of Arg-115 of human class III alcohol dehydrogenase: a binding site required for formaldehyde dehydrogenase activity and fatty acid activation. <b>1993</b> , 90, 2491-4		57
1976	Expression of the functional mature chloroplast triose phosphate translocator in yeast internal membranes and purification of the histidine-tagged protein by a single metal-affinity chromatography step. <b>1993</b> , 90, 2155-9		86
1975	Analysis of CD36 binding domains: ligand specificity controlled by dephosphorylation of an ectodomain. <b>1993</b> , 262, 1436-40		188

1974	A simple and efficient method for site-directed mutagenesis with double-stranded plasmid DNA. <b>1993</b> , 21, 3977-80	11
1973	Clustering of the acetylcholine receptor by the 43-kD protein: involvement of the zinc finger domain. <b>1993</b> , 123, 719-28	42
1972	Role of cysteine62 in DNA recognition by the P50 subunit of NF-kappa B. <b>1993</b> , 21, 1727-34	132
1971	High level activity of the mouse CCAAT/enhancer binding protein (C/EBP alpha) gene promoter involves autoregulation and several ubiquitous transcription factors. <b>1993</b> , 21, 1735-42	93
1970	Phosphorylation of human hnRNP protein A1 abrogates in vitro strand annealing activity. <b>1993</b> , 21, 949-55	88
1969	Polymorphisms in pockets of major histocompatibility complex class I molecules influence peptide preference. <b>1993</b> , 177, 1713-21	34
1968	Thymic selection of cytotoxic T cells independent of CD8 alpha-Lck association. <b>1993</b> , 261, 1581-4	59
1967	In Vitro Recombination and Mutagenesis of DNA: SOEing Together Tailor-Made Genes. <b>1993</b> , 15, 251-61	68
1966	Identification of C/EBP basic region residues involved in DNA sequence recognition and half-site spacing preference. <b>1993</b> , 13, 6919-30	100
1965	Two independent peroxisomal targeting signals in catalase A of Saccharomyces cerevisiae. <b>1993</b> , 120, 665-73	156
1964	Suppression of yeast geranylgeranyl transferase I defect by alternative prenylation of two target GTPases, Rho1p and Cdc42p. <b>1993</b> , 4, 1017-25	64
1963	Identification of a novel sequence mediating regulated endocytosis of the G protein-coupled alpha-pheromone receptor in yeast. <b>1993</b> , 4, 511-21	111
1962	Functional homology of protein kinases required for sexual differentiation in Schizosaccharomyces pombe and Saccharomyces cerevisiae suggests a conserved signal transduction module in eukaryotic organisms. <b>1993</b> , 4, 107-20	151
1961	Transactivation of gene expression by Myc is inhibited by mutation at the phosphorylation sites Thr-58 and Ser-62. <b>1993</b> , 90, 3216-20	145
1960	Identification of the carboxy terminus as important for the isoform-specific subcellular targeting of glucose transporter proteins. <b>1993</b> , 123, 137-47	78
1959	Structure/function analysis of the Ala116>Lys121 region of endonuclease V by random targeted mutagenesis. <b>1993</b> , 21, 727-32	3
1958	A plant receptor-like gene, the S-locus receptor kinase of Brassica oleracea L., encodes a functional serine/threonine kinase. <b>1993</b> , 101, 1103-6	110
1957	Construction of recombinant DNA by exonuclease recession. <b>1993</b> , 21, 1889-93	45

1956	The Ca(2+)-binding domains in non-muscle type alpha-actinin: biochemical and genetic analysis. <b>1993</b> , 121, 599-606	92
1955	Dimerization specificity of the leucine zipper-containing bZIP motif on DNA binding: prediction and rational design. <b>1993</b> , 7, 1047-58	269
1954	Rhinoviral receptor discrimination: mutational changes in the canyon regions of human rhinovirus types 2 and 14 indicate a different site of interaction. <b>1993</b> , 74 ( Pt 10), 2287-91	18
1953	Exonuclease III induced ligase-free directional subcloning of PCR products. <b>1993</b> , 21, 5528-9	37
1952	Molecular characterization of a cross-reactive idiotope on human immunoglobulins utilizing the VH4-21 gene segment. <b>1993</b> , 178, 1419-28	74
1951	Function of the ypt2 gene in the exocytic pathway of Schizosaccharomyces pombe. <b>1993</b> , 4, 1069-76	34
1950	PCR Protocols. 1993,	79
1949	Identification of a functional silencer element involved in neuron-specific expression of the synapsin I gene. <b>1993</b> , 90, 1460-4	150
1948	Discovery of a novel point mutation changing the HDAg expression of a hepatitis delta virus isolate from Central African Republic. <b>1993</b> , 74 ( Pt 9), 1827-35	16
1947	A PCR-derived library of random point mutations within the V3 region of simian immunodeficiency virus. <b>1993</b> , 2, 301-4	4
1946	Polymerase chain reaction-based point mutagenesis protocol. <b>1993</b> , 217, 218-27	26
1945	A mutant alpha subunit of G12 potentiates the eicosanoid pathway and is highly oncogenic in NIH 3T3 cells. <b>1993</b> , 90, 6741-5	165
1944	Identification of a novel interleukin-6 response element containing an Ets-binding site and a CRE-like site in the junB promoter. <b>1993</b> , 13, 3027-41	127
1943	Protein engineering of the 2-haloacid halidohydrolase IVa from Pseudomonas cepacia MBA4. <b>1993</b> , 292 ( Pt 1), 69-74	20
1942	The stringency and magnitude of androgen-specific gene activation are combinatorial functions of receptor and nonreceptor binding site sequences. <b>1993</b> , 13, 6326-35	95
1941	Dimerization mediated through a leucine zipper activates the oncogenic potential of the met receptor tyrosine kinase. <b>1993</b> , 13, 6711-22	168
1940	Identifying the catalytic residue of the ATPase reaction of DNA gyrase. <b>1993</b> , 90, 11232-6	94
1939	PU.1 is a component of a multiprotein complex which binds an essential site in the murine immunoglobulin lambda 2-4 enhancer. <b>1993</b> , 13, 6452-61	173

1938	Regulation of the proneural gene achaete by helix-loop-helix proteins. <b>1993</b> , 13, 3514-21	43
1937	Identification of the immunophilins capable of mediating inhibition of signal transduction by cyclosporin A and FK506: roles of calcineurin binding and cellular location. <b>1993</b> , 13, 4760-9	247
1936	Phosphorylation of the c-Fos transrepression domain by mitogen-activated protein kinase and 90-kDa ribosomal S6 kinase. <b>1993</b> , 90, 10952-6	255
1935	Transcriptional inhibition of the murine erythropoietin receptor gene by an upstream repetitive element. <b>1993</b> , 13, 98-104	26
1934	NF-kappa B subunit-specific regulation of the interleukin-8 promoter. <b>1993</b> , 13, 6137-46	477
1933	Characterization of wild type and mutant chicken gizzard alpha calponin expressed in E. coli. <b>1993</b> , 114, 453-6	32
1932	Expression of human salivary histatin and cystatin/histatin chimeric cDNAs in Escherichia coli. <b>1993</b> , 4, 581-90	9
1931	Analysis of the promoter and regulatory sequences of an oxygen-regulated bch operon in Rhodobacter capsulatus by site-directed mutagenesis. <b>1993</b> , 175, 2037-45	52
1930	Inter-species chimeras of leukaemia inhibitory factor define a major human receptor-binding determinant <b>1993</b> , 12, 3487-3495	37
1929	Cell surface expression and function of an HLA class II molecule with class I domain configuration. <b>1993</b> , 178, 731-5	
1928	Genetic transfer and expression of reconstructed yeast artificial chromosomes containing normal and translocated BCL2 proto-oncogenes. <b>1993</b> , 13, 5469-78	19
1927	Unwanted mutations in PCR mutagenesis: avoiding the predictable. <b>1993</b> , 2, 253-7	12
1926	Requirement of different subdomains of calpastatin for calpain inhibition and for binding to calmodulin-like domains. <b>1993</b> , 113, 591-9	34
1925	Novel members of the mitogen-activated protein kinase activator family in Xenopus laevis. <b>1993</b> , 13, 5738-48	62
1924	Effects of amino acid substitutions in the promoter -10 binding region of the sigma A factor on growth of Bacillus subtilis. <b>1993</b> , 175, 2470-4	8
1923	Nuclear uptake control of NF-kappa B by MAD-3, an I kappa B protein present in the nucleus <b>1993</b> , 12, 201-211	234
1922	A site-directed Mutagenesis of pro-urokinase at the flexible loop region of active domain. 1993,	
1921	Evidence for possible electrostatic interactions in the active site-cleft of porcine pepsin. 1993,	

1920 The role electrostatic interactions may play in the unique specificity of Rhizopuspepsin. 1993,

1919 Combinatorial Mutagenesis of active-site residues of enzymes. <b>1993</b> ,	
A thermodynamic scale for leucine zipper stability and dimerization specificity: e and g interhelical interactions <b>1994</b> , 13, 2849-2861	216
Immunophilins interact with calcineurin in the absence of exogenous immunosuppressive ligands <b>1917 1994</b> , 13, 5944-5957	113
The GTPase Rab3a negatively controls calcium-dependent exocytosis in neuroendocrine cells <b>1994</b> , 13, 2029-2037	169
VIP36, a novel component of glycolipid rafts and exocytic carrier vesicles in epithelial cells <b>1994</b> , 13, 1729-1740	174
1914 Nuclear localization of p85s6k: functional requirement for entry into S phase <b>1994</b> , 13, 1557-1565	156
A distinct modulating domain in glucocorticoid receptor monomers in the repression of activity of the transcription factor AP-1 <b>1994</b> , 13, 4087-4095	382
Activation function 2 (AF-2) of retinoic acid receptor and 9-cis retinoic acid receptor: presence of a conserved autonomous constitutive activating domain and influence of the nature of the response element on AF-2 activity <b>1994</b> , 13, 5370-5382	260
Carbohydrate moiety of the Petunia inflata S3 protein is not required for self-incompatibility interactions between pollen and pistil. <b>1994</b> , 6, 1933-40	56
Identification of a DNA sequence involved in osteoblast-specific gene expression via interaction with helix-loop-helix (HLH)-type transcription factors. <b>1994</b> , 126, 773-82	79
1909 Mutational analysis of an autoantibody: differential binding and pathogenicity. <b>1994</b> , 180, 925-32	122
1908 Subsets of HLA-DR1 molecules defined by SEB and TSST-1 binding. <b>1994</b> , 266, 1874-8	86
1907 Differential regulation of vascular angiotensin I-converting enzyme in hypertension. <b>1994</b> , 24, 280-6	23
Catalytic mechanism of active-site serine beta-lactamases: role of the conserved hydroxy group of the Lys-Thr(Ser)-Gly triad. <b>1994</b> , 301 ( Pt 2), 485-94	62
1905 Ribonuclease Activity of Petunia inflata S Proteins Is Essential for Rejection of Self-Pollen. <b>1994</b> , 6, 7	1021
Carbohydrate Moiety of the Petunia inflata S 3 Protein Is Not Required for Self-Incompatibility Interactions between Pollen and Pistil. <b>1994</b> , 6, 1933	11
Evolutionary conservation of function among mammalian, avian, and viral homologs of the Bcl-2 oncoprotein. <b>1994</b> , 13, 679-92	42

1902	Construction and in vitro properties of SIVmac mutants with deletions in "nonessential" genes. <b>1994</b> , 10, 607-16	112
1901	A humanized anti-tumor necrosis factor-alpha monoclonal antibody that acts as a partial, competitive antagonist of the template antibody. <b>1994</b> , 13, 183-90	2
1900	Characterization of a novel transcription complex required for glucocorticoid regulation of the rat alpha-1-acid glycoprotein gene. <b>1994</b> , 13, 615-27	11
1899	Humanization of 60.3, an anti-CD18 antibody; importance of the L2 loop. <b>1994</b> , 7, 815-22	15
1898	Role of SAPK/ERK kinase-1 in the stress-activated pathway regulating transcription factor c-Jun. <b>1994</b> , 372, 794-8	961
1897	The role of two conserved amino acids, glutamine 90 and asparagine 137, in O6-methylguanine-DNA methyltransferase stability, activity and substrate specificity. <b>1994</b> , 15, 1895-902	15
1896	A rapid and efficient one-tube PCR-based mutagenesis technique using Pfu DNA polymerase. <b>1994</b> , 22, 2587-91	228
1895	Molecular basis of the activation of basal histone H1(0) gene expression. <b>1994</b> , 22, 2887-93	8
1894	Codon cassette mutagenesis: a general method to insert or replace individual codons by using universal mutagenic cassettes. <b>1994</b> , 22, 1593-9	45
1893	Introduction of arbitrary sequences into genes by use of class IIs restriction enzymes. <b>1994</b> , 22, 886-7	6
1892	The END3 gene encodes a protein that is required for the internalization step of endocytosis and for actin cytoskeleton organization in yeast. <b>1994</b> , 5, 1023-37	249
1891	Sequence-specific DNA recognition by the thyroid transcription factor-1 homeodomain. <b>1994</b> , 22, 3075-83	110
1890	Light modulation of ferredoxin mRNA abundance requires an open reading frame. <b>1994</b> , 6, 1171-6	66
1889	The rpoB gene of Mycobacterium tuberculosis. <b>1994</b> , 38, 805-11	168
1888	Ribonuclease activity of Petunia inflata S proteins is essential for rejection of self-pollen. <b>1994</b> , 6, 1021-8	248
1887	Structure of REC2, a recombinational repair gene of Ustilago maydis, and its function in homologous recombination between plasmid and chromosomal sequences. <b>1994</b> , 14, 6287-96	25
1886	C25, an essential RNA polymerase III subunit related to the RNA polymerase II subunit RPB7. <b>1994</b> , 14, 6164-70	45
1885	The importance of nef in the induction of human immunodeficiency virus type 1 replication from primary quiescent CD4 lymphocytes. <b>1994</b> , 179, 115-23	359

1884	Signal transduction by tumor necrosis factor mediated by JNK protein kinases. <b>1994</b> , 14, 8376-84	433
1883	Efficient generation of a reshaped human mAb specific for the alpha toxin of Clostridium perfringens. <b>1994</b> , 7, 1501-7	5
1882	Construction and in vitro properties of SIVmac mutants with deletions in "nonessential" genes. <b>1994</b> , 10, 333-42	29
1881	Course of c-myc mRNA expression in the regenerating mouse testis determined by competitive reverse transcriptase polymerase chain reaction. <b>1994</b> , 13, 1099-107	1
1880	Cysteine scanning mutagenesis of the N-terminal 32 amino acid residues in the lactose permease of Escherichia coli. <b>1994</b> , 3, 240-7	27
1879	Quantification of the calcium-induced secondary structural changes in the regulatory domain of troponin-C. <b>1994</b> , 3, 1961-74	174
1878	The role of transmembrane domain III in the lactose permease of Escherichia coli. <b>1994</b> , 3, 2302-10	20
1877	Biochemical characterization of the O-glycans on recombinant glycophorin A expressed in Chinese hamster ovary cells. <b>1994</b> , 11, 43-50	14
1876	Identification of the major sites of phosphorylation in IGF binding protein-3. <b>1994</b> , 56, 262-73	59
1875	Analysis of regulatory regions in the COL1A1 gene responsible for 1,25-dihydroxyvitamin D3-mediated transcriptional repression in osteoblastic cells. <b>1994</b> , 56, 490-501	36
1874	Generation of chimeric C5a/formyl peptide receptors: towards the identification of the human C5a receptor binding site. <b>1994</b> , 24, 211-5	21
1873	T cell receptor and peptide-contacting residues in the HLA-DR17(3) beta 1 chain. <b>1994</b> , 24, 3241-4	18
1872	Expression of rat alpha-fetoprotein cDNA and its mutants in cultured mouse fibroblasts and identification of glycosylation sites related to electrophoretic variants. <b>1994</b> , 1208, 332-7	1
1871	Hereditary progressive dystonia with marked diurnal fluctuation caused by mutations in the GTP cyclohydrolase I gene. <b>1994</b> , 8, 236-42	707
1870	Transformation by polyoma virus middle T-antigen involves the binding and tyrosine phosphorylation of Shc. <b>1994</b> , 367, 87-90	185
1869	Co-evolution of ligand-receptor pairs. <b>1994</b> , 368, 251-5	294
1868	Cytoplasmic domains of the interleukin-2 receptor beta and gamma chains mediate the signal for T-cell proliferation. <b>1994</b> , 369, 333-6	285
1867	Gating of inwardly rectifying K+ channels localized to a single negatively charged residue. <b>1994</b> , 371, 246-9	234

1866	Critical residues in an SH3 domain from Sem-5 suggest a mechanism for proline-rich peptide recognition. <b>1994</b> , 1, 221-5	82
1865	The colicin A pore-forming domain fused to mitochondrial intermembrane space sorting signals can be functionally inserted into the Escherichia coli plasma membrane by a mechanism that bypasses the Tol proteins. <b>1994</b> , 13, 1121-31	23
1864	Topological and mutational analysis of KpsM, the hydrophobic component of the ABC-transporter involved in the export of polysialic acid in Escherichia coli K1. <b>1994</b> , 14, 871-81	56
1863	Characterization of the functional role of E-box elements for the transcriptional activity of rat acetylcholine receptor epsilon-subunit and gamma-subunit gene promoters in primary muscle cell cultures. <b>1994</b> , 224, 353-64	24
1862	Induction of the human gene for p44, a hepatitis-C-associated microtubular aggregate protein, by interferon-alpha/beta. <b>1994</b> , 224, 877-83	45
1861	Mutational analysis of human endothelin receptors ETA and ETB identification of regions involved in the selectivity for endothelin 3 or cyclo-(D-Trp-D-Asp-Pro-D-Val-Leu). <b>1994</b> , 221, 951-8	11
1860	JNK1: a protein kinase stimulated by UV light and Ha-Ras that binds and phosphorylates the c-Jun activation domain. <b>1994</b> , 76, 1025-37	3046
1859	Cooperative interaction of S. pombe proteins required for mating and morphogenesis. <b>1994</b> , 79, 131-41	269
1858	Down-regulation of glycine receptor channels by protein kinase C in Xenopus oocytes injected with synthetic RNA. <b>1994</b> , 24, 295-300	25
1857	Acidic residues in the DR beta chain third hypervariable region are required for stimulation of a DR(alpha, beta 1*0402)-restricted T-cell clone. <b>1994</b> , 41, 193-200	14
1856	Site-directed mutagenesis of a catalytic antibody: an arginine and a histidine residue play key roles. <b>1994</b> , 33, 1994-2003	56
1855	An osmosensing signal transduction pathway in mammalian cells. <b>1994</b> , 265, 806-8	535
1854	NF-kappa B and C/EBP transcription factor families synergistically function in mouse serum amyloid A gene expression induced by inflammatory cytokines. <i>Gene</i> , <b>1994</b> , 149, 305-10	49
1853	Retention of p63 in an ER-Golgi intermediate compartment depends on the presence of all three of its domains and on its ability to form oligomers. <b>1994</b> , 126, 25-39	59
1852	Supramolecular self-assembly of glutamine synthetase: mutagenesis of a novel intermolecular metal binding site required for dodecamer stacking. <b>1994</b> , 33, 14957-64	9
1851	Anion transport function of mouse erythroid band 3 protein (AE1) does not require acylation of cysteine residue 861. <b>1994</b> , 1194, 341-4	19
1850	An Asp8Asn substitution results in the adenosine deaminase (ADA) genetic polymorphism (ADA 2 allozyme): occurrence on different chromosomal backgrounds and apparent intragenic crossover. <b>1994</b> , 58, 1-9	55
1849	Histidine-419 plays a role in energy coupling in the vesicular monoamine transporter from rat. <b>1994</b> , 356, 145-50	27

1848	Activity of the E75E76 mutant of the alpha subunit of casein kinase II from Xenopus laevis. <b>1994</b> , 339, 93-6		17
1847	Organisation of the murine 5-HT3 receptor gene and assignment to human chromosome 11. <b>1994</b> , 339, 302-6		31
1846	Site-directed mutagenesis of double-stranded DNA by the polymerase chain reaction. <i>Gene</i> , <b>1994</b> , 151, 119-23	3.8	424
1845	Biological activities and secondary structures of variant forms of human salivary cystatin SN produced in Escherichia coli. <i>Gene</i> , <b>1994</b> , 151, 303-8	3.8	22
1844	Expression of the pheromone 3-encoding gene of Euplotes octocarinatus using a novel bacterial secretion vector. <i>Gene</i> , <b>1994</b> , 150, 187-92	3.8	8
1843	A polymorphic residue in the amino terminal alpha 1 hemi-domain of the mouse Ld class I molecule affects its assembly and surface expression. <b>1994</b> , 31, 1169-80		5
1842	Potential therapeutic recombinant proteins comprised of peptides containing recombined T cell epitopes. <b>1994</b> , 31, 955-66		28
1841	Cathepsin B cleavage and release of invariant chain from MHC class II molecules follow a staged pattern. <b>1994</b> , 31, 723-31		37
1840	Site directed mutagenesis of the complement C5a receptorexamination of a model for its interaction with the ligand C5a. <b>1994</b> , 31, 733-7		7
1839	Chimeric immunoglobulin light chains are secreted at different levels: influence of framework-1 amino acids. <b>1994</b> , 31, 683-92		10
1838	HLA-DR alpha chain residues located on the outer loops are involved in nonpolymorphic and polymorphic antibody-binding epitopes. <b>1994</b> , 39, 253-60		51
1837	Two different cellular redox systems regulate the DNA-binding activity of the p50 subunit of NF-kappa B in vitro. <i>Gene</i> , <b>1994</b> , 145, 197-203	3.8	137
1836	Primary sequence of the chitosanase from Streptomyces sp. strain N174 and comparison with other endoglycosidases. <i>Gene</i> , <b>1994</b> , 140, 103-7	3.8	48
1835	A site-directed spin-labeling study of ligand-induced conformational change in the ferric enterobactin receptor, FepA. <b>1994</b> , 33, 13274-83		48
1834	Transactivation of the rat CYP2C13 gene promoter involves HNF-1, HNF-3, and members of the orphan receptor subfamily. <b>1994</b> , 33, 9889-97		40
1833	Different domain interactions are involved in the binding of tissue inhibitors of metalloproteinases to stromelysin-1 and gelatinase A. <b>1994</b> , 33, 2089-95		76
1832	Cysteine 148 in the lactose permease of Escherichia coli is a component of a substrate binding site.  1. Site-directed mutagenesis studies. <b>1994</b> , 33, 12160-5		63
1831	Identification of the histidine ligands to the binuclear metal center of phosphotriesterase by site-directed mutagenesis. <b>1994</b> , 33, 4265-72		49

1830	Properties of isolated recombinant N and C domains of chicken troponin C. <b>1994</b> , 33, 917-25	58
1829	Identification of metal ligands in Cu(II)-inhibited Chromobacterium violaceum phenylalanine hydroxylase by electron spin echo envelope modulation analysis of histidine to serine mutations. 1994, 33, 8532-7	20
1828	Serine 90 is required for enzymic activity by tRNA-guanine transglycosylase from Escherichia coli. <b>1994</b> , 33, 7041-6	26
1827	A molecular wedge for triggering the amidotransferase activity of carbamoyl phosphate synthetase. <b>1994</b> , 33, 2945-50	39
1826	Cysteine-scanning mutagenesis of putative helix VII in the lactose permease of Escherichia coli. <b>1994</b> , 33, 8074-81	71
1825	Conversion of alpha 1-antichymotrypsin into a human neutrophil elastase inhibitor: demonstration of variants with different association rate constants, stoichiometries of inhibition, and complex stabilities. <b>1994</b> , 33, 7627-33	48
1824	Evidence supporting catalytic roles for aspartate residues in phosphoribulokinase. <b>1994</b> , 33, 9343-50	29
1823	Characterization of neuronal nitric oxide synthase and a C415H mutant, purified from a baculovirus overexpression system. <b>1994</b> , 33, 14723-32	103
1822	Periplasmic expression of human interferon-alpha 2c in Escherichia coli results in a correctly folded molecule. <b>1994</b> , 298 Pt 3, 719-25	10
1821	Investigation of the cofactor-binding site of Zymomonas mobilis pyruvate decarboxylase by site-directed mutagenesis. <b>1994</b> , 300 ( Pt 1), 7-13	36
1820	Expression of rat endopeptidase-24.18 in COS-1 cells: membrane topology and activity. <b>1994</b> , 300 ( Pt 1), 37-43	19
1819	Site-directed mutagenesis of the putative active site of human 17 beta-hydroxysteroid dehydrogenase type 1. <b>1994</b> , 304 ( Pt 1), 289-93	77
1818	Humanization of the murine anti-human CD3 monoclonal antibody OKT3. <b>1994</b> , 5, 41-47	44
1817	The V beta complementarity determining region 1 of a major histocompatibility complex (MHC) class I-restricted T cell receptor is involved in the recognition of peptide/MHC I and superantigen/MHC II complex. <b>1994</b> , 179, 1087-97	43
1816	Coenzyme B12-dependent ribonucleotide reductase: evidence for the participation of five cysteine residues in ribonucleotide reduction. <b>1994</b> , 33, 12676-85	102
1815	Functional substitution of an essential yeast RNA polymerase subunit by a highly conserved mammalian counterpart. <b>1994</b> , 14, 4155-9	38
1814	Distinct p53/56lyn and p59fyn domains associate with nonphosphorylated and phosphorylated Ig-alpha. <b>1994</b> , 91, 4268-72	115
1813	Functional significance of lysine 1423 of neurofibromin and characterization of a second site suppressor which rescues mutations at this residue and suppresses RAS2Val-19-activated phenotypes. <b>1994</b> , 14, 815-21	33

1812	DNA affinity cleaving analysis of homeodomain-DNA interaction: identification of homeodomain consensus sites in genomic DNA. <b>1994</b> , 91, 118-22	30
1811	Krp̃pel-associated boxes are potent transcriptional repression domains. <b>1994</b> , 91, 4509-13	510
1810	Growth factor-mediated induction of the delayed early gene T1 depends on a 12-O-tetradecanoylphorbol 13-acetate-responsive element located 3.6 kb upstream of the transcription initiation site. <b>1994</b> , 91, 3896-900	13
1809	Induction of the rat prodynorphin gene through Gs-coupled receptors may involve phosphorylation-dependent derepression and activation. <b>1994</b> , 14, 2837-48	49
1808	Efficient homologous recombination of Ty1 element cDNA when integration is blocked. <b>1994</b> , 14, 6540-51	84
1807	Analysis of the structural genes encoding M-factor in the fission yeast Schizosaccharomyces pombe: identification of a third gene, mfm3. <b>1994</b> , 14, 3895-905	50
1806	A cis-acting repressive sequence that overlaps the Rev-responsive element of human immunodeficiency virus type 1 regulates nuclear retention of env mRNAs independently of known splice signals. <b>1994</b> , 91, 8314-8	67
1805	First epidermal growth factor-like domain of human blood coagulation factor IX is required for its activation by factor VIIa/tissue factor but not by factor XIa. <b>1994</b> , 91, 3574-8	54
1804	Erythroid cell-specific mRNA stability elements in the alpha 2-globin 3Mnontranslated region. <b>1995</b> , 15, 2457-65	158
1803	Host factors LR1 and Sp1 regulate the Fp promoter of Epstein-Barr virus. <b>1995</b> , 92, 8293-7	23
1802	Three distinct structural environments of a transmembrane domain in the inwardly rectifying potassium channel ROMK1 defined by perturbation. <b>1995</b> , 92, 12046-9	44
1801	Src family protein tyrosine kinases induce autoactivation of BrutonMtyrosine kinase. <b>1995</b> , 15, 5304-11	132
1800	Differential inhibition of signaling pathways by dominant-negative SH2/SH3 adapter proteins. <b>1995</b> , 15, 6829-37	227
1799	Discovery of a brain promoter from the human transferrin gene and its utilization for development of transgenic mice that express human apolipoprotein E alleles. <b>1995</b> , 92, 12115-9	23
1798	Minimal epitopes expressed in a recombinant polyepitope protein are processed and presented to CD8+ cytotoxic T cells: implications for vaccine design. <b>1995</b> , 92, 5845-9	119
1797	Biosynthesis of a biologically active single peptide chain containing the human common alpha and chorionic gonadotropin beta subunits in tandem. <b>1995</b> , 92, 2041-5	99
1796	An upstream control region required for inducible transcription of the mouse H1(zero) histone gene during terminal differentiation. <b>1995</b> , 15, 1889-900	16
1795	Dependence of globin gene expression in mouse erythroleukemia cells on the NF-E2 heterodimer. <b>1995</b> , 15, 4640-7	149

1794	Hydrophobic cluster analysis predicts an amino-terminal domain of varicella-zoster virus open reading frame 10 required for transcriptional activation. <b>1995</b> , 92, 9333-7	21
1793	Identification and expression of a missense mutation (Y446C) in the acid sphingomyelinase gene from a Japanese patient with type A Niemann-Pick disease. <b>1995</b> , 177, 117-23	6
1792	Phanerochaete chrysosporium glyoxal oxidase is encoded by two allelic variants: structure, genomic organization, and heterologous expression of glx1 and glx2. <b>1995</b> , 177, 6106-10	46
1791	Decreased expression of hepatocyte nuclear factor 3 alpha during the acute-phase response influences transthyretin gene transcription. <b>1995</b> , 15, 1364-76	87
1790	The chicken immunoglobulin lambda light chain gene is transcriptionally controlled by a modularly organized enhancer and an octamer-dependent silencer. <b>1995</b> , 23, 1997-2005	15
1789	A single-chain insulin-like growth factor I/insulin hybrid binds with high affinity to the insulin receptor. <b>1995</b> , 305 ( Pt 3), 981-6	51
1788	Possible domains responsible for intracellular targeting and insulin-dependent translocation of glucose transporter type 4. <b>1995</b> , 309 ( Pt 3), 813-23	18
1787	Synergistic transcriptional activation of the thyrotropin receptor promoter by cyclic AMP-responsive-element-binding protein and thyroid transcription factor 1. <b>1995</b> , 310 ( Pt 2), 491-6	11
1786	The effects of the site-directed removal of N-glycosylation sites from beta-1,4-N-acetylgalactosaminyltransferase on its function. <b>1995</b> , 312 ( Pt 1), 273-80	59
1785	ATP-binding cassette transporter in Saccharomyces cerevisiae mitochondria. <b>1995</b> , 260, 389-96	5
1784	Control of transcription termination by an RNA factor in bacteriophage P4 immunity: identification of the target sites. <b>1995</b> , 177, 1425-34	43
1783	[22] Use of PCR in analysis of 5?-flanking region of androgen receptor gene. <b>1995</b> , 26, 324-336	1
1782	An efficient and optimized PCR method with high fidelity for site-directed mutagenesis. <b>1995</b> , 4, 269-74	11
1781	Galactose-specific adhesion mechanisms of Entamoeba histolytica: model for study of enteric pathogens. <b>1995</b> , 253, 424-39	7
1780	13 Genetic improvement of pentose fermenting microorganisms. <b>1995</b> , 33, 351-369	
1779	Circular permutation of RNase T1 through PCR based site-directed mutagenesis. <b>1995</b> , 333-340	
1778	Isolation of HLA-DR1.(staphylococcal enterotoxin A)2 trimers in solution. <b>1995</b> , 92, 12156-9	42
1777	Wiskott-Aldrich syndrome protein physically associates with Nck through Src homology 3 domains. <b>1995</b> , 15, 5725-31	298

1776	Characterization of human immunodeficiency virus type 1 mutants with decreased sensitivity to proteinase inhibitor Ro 31-8959. <b>1995</b> , 206, 527-34	185
1775	Enoyl-CoA Hydratase and Isomerase form a Superfamily with a Common Active-Site Glutamate Residue. <b>1995</b> , 228, 68-73	2
1774	Site-Directed Mutagenesis of the Redox-Active Cysteines of Trypanosoma cruzi Trypanothione Reductase. <b>1995</b> , 228, 745-752	1
1773	The replacement of Trp392 by alanine influences the decarboxylase/carboligase activity and stability of pyruvate decarboxylase from Zymomonas mobilis. <b>1995</b> , 234, 650-5	44
1772	Expression of the subunits of protein kinase CK2 during oogenesis in Xenopus laevis. <b>1995</b> , 232, 671-6	19
1771	Novel forms of B-domain-deleted recombinant factor VIII molecules. Construction and biochemical characterization. <b>1995</b> , 232, 19-27	92
1770	Collagen fibrillogenesis in situ: fibril segments undergo post-depositional modifications resulting in linear and lateral growth during matrix development. <b>1995</b> , 202, 229-43	192
1769	Altered processing of a mutant amyloid precursor protein in neuronal and endothelial cells. <b>1995</b> , 40, 261-8	16
1768	Functional analysis of avian class I (BFIV) glycoproteins by epitope tagging and mutagenesis in vitro. <b>1995</b> , 25, 2069-76	41
1767	Introduction of a murine p53 mutation corresponding to human codon 249 into a murine hepatocyte cell line results in growth advantage, but not in transformation. <b>1995</b> , 22, 1279-1288	38
1766	Effects of c-Jun and a negative dominant mutation of c-Jun on differentiation and gene expression in lens epithelial cells. <b>1995</b> , 58, 237-47	9
1765	Mutations in the M1 region of the nicotinic acetylcholine receptor alter the sensitivity to inhibition by quinacrine. <b>1995</b> , 15, 427-38	29
1764	The sequence surrounding the translation initiation codon of the pea plastocyanin gene increases translational efficiency of a reporter gene. <b>1995</b> , 29, 621-6	10
1763	Glutathione S-transferase and S-crystallins of cephalopods: evolution from active enzyme to lens-refractive proteins. <b>1995</b> , 41, 1048-56	49
1762	Precise gene disruption in Saccharomyces cerevisiae by double fusion polymerase chain reaction. <b>1995</b> , 11, 1275-80	118
1761	Fluorescence of native single-Trp mutants in the lactose permease from Escherichia coli: structural properties and evidence for a substrate-induced conformational change. <b>1995</b> , 4, 2310-8	34
1760	Direct regulation of the ATPase activity of the transcriptional activator DmpR by aromatic compounds. <b>1995</b> , 17, 505-13	81
1759	High adhesiveness of encapsulated Neisseria meningitidis to epithelial cells is associated with the formation of bundles of pili. <b>1995</b> , 17, 855-63	66

## (1995-1995)

1758	Membrane topology and site-specific mutagenesis of Pseudomonas aeruginosa porin OprD. <b>1995</b> , 16, 931-41	54
1757	A missense mutation in the glucagon receptor gene is associated with non-insulin-dependent diabetes mellitus. <b>1995</b> , 9, 299-304	153
1756	Mesoderm induction in Xenopus caused by activation of MAP kinase. <b>1995</b> , 376, 58-62	206
1755	Generation of anNco I restriction site for translational fusions using PCR-mediated, site-directed mutagenesis. <b>1995</b> , 13, 232-242	2
1754	Avian cytosolic 3-hydroxy-3-methylglutaryl-CoA synthase: evaluation of the role of cysteines in reaction chemistry. <b>1995</b> , 1247, 253-9	11
1753	Identification of tyrosine 108 in coffee bean alpha-galactosidase as an essential residue for the enzyme activity. <b>1995</b> , 1247, 260-4	19
1752	PCR-mediated recombination and mutagenesis. SOEing together tailor-made genes. <b>1995</b> , 3, 93-9	251
1751	Pocket 4 of the HLA-DR(alpha,beta 1*0401) molecule is a major determinant of T cells recognition of peptide. <b>1995</b> , 181, 915-26	94
1750	IgM receptor-mediated transactivation of the IgH 3? enhancer couples a novel Elf-1-AP-1 protein complex to the developmental control of enhancer function <b>1995</b> , 14, 4501-4513	55
1749	The human gp39 promoter. Two distinct nuclear factors of activated T cell protein-binding elements contribute independently to transcriptional activation. <b>1995</b> , 270, 29624-7	79
1748	FKBP12-rapamycin target TOR2 is a vacuolar protein with an associated phosphatidylinositol-4 kinase activity <b>1995</b> , 14, 5892-5907	96
1747	A novel endocytosis signal related to the KKXX ER-retrieval signal <b>1995</b> , 14, 2250-2256	49
1746	Targets of immunophilin-immunosuppressant complexes are distinct highly conserved regions of calcineurin A <b>1995</b> , 14, 2772-2783	86
1745	Cloning and characterization of chi-1: a developmentally regulated member of a novel class of the ionotropic glutamate receptor family. <b>1995</b> , 15, 6498-508	338
1744	Gene Splicing by Overlap Extension. <b>1995</b> , 363-372	1
1743	Phosphorylation of human I kappa B-alpha on serines 32 and 36 controls I kappa B-alpha proteolysis and NF-kappa B activation in response to diverse stimuli <b>1995</b> , 14, 2876-2883	811
1742	Construction of an SH2 domain-binding site with mixed specificity. <b>1995</b> , 270, 3858-62	20
1741	Human RPB5, a subunit shared by eukaryotic nuclear RNA polymerases, binds human hepatitis B virus X protein and may play a role in X transactivation <b>1995</b> , 14, 143-150	197

1740	The unique extracellular disulfide loop of the glycine receptor is a principal ligand binding element <b>1995</b> , 14, 2987-2998	68
1739	Myristoylation of calcineurin B is not required for function or interaction with immunophilin-immunosuppressant complexes in the yeast Saccharomyces cerevisiae. <b>1995</b> , 270, 24831-8	39
1738	The TATA-less promoter of mouse ribonucleotide reductase R1 gene contains a TFII-I binding initiator element essential for cell cycle-regulated transcription. <b>1995</b> , 270, 30162-7	32
1737	The U1 small nuclear ribonucleoprotein/5Mplice site interaction affects U2AF65 binding to the downstream 3Mplice site. <b>1995</b> , 270, 4031-6	23
1736	The choice of reducing substrate is altered by replacement of an alanine by a proline in the FAD domain of a bispecific NAD(P)H-nitrate reductase from birch. <b>1995</b> , 108, 203-10	15
1735	Functional association between the human myeloid immunoglobulin A Fc receptor (CD89) and FcR gamma chain. Molecular basis for CD89/FcR gamma chain association. <b>1995</b> , 270, 29781-7	160
1734	Independent human MAP-kinase signal transduction pathways defined by MEK and MKK isoforms. <b>1995</b> , 267, 682-5	1434
1733	Site-Specific Mutagenesis Using the Polymerase Chain Reaction. <b>1995</b> , 179-188	12
1732	A mutation of angiotensinogen in a patient with preeclampsia leads to altered kinetics of the renin-angiotensin system. <b>1995</b> , 270, 11430-6	55
1731	Signal sequence processing in rough microsomes. <b>1995</b> , 270, 19873-8	73
1730	C-terminal deletion analysis of plant plasma membrane H(+)-ATPase: yeast as a model system for solute transport across the plant plasma membrane. <b>1995</b> , 7, 1655-66	109
1729	Development and application of an in vivo plant peroxisome import system. <b>1995</b> , 107, 1201-8	59
1728	Characterization of the 5 <b>M</b> lanking region of the gene for the alpha chain of human fibrinogen. <b>1995</b> , 270, 28342-9	34
1727	Mutations affecting the glycine receptor agonist transduction mechanism convert the competitive antagonist, picrotoxin, into an allosteric potentiator. <b>1995</b> , 270, 13799-806	98
1726	Heparin binding by fibronectin module III-13 involves six discontinuous basic residues brought together to form a cationic cradle. <b>1995</b> , 270, 18558-62	92
1725	In vitro expression of structural defects in the lecithin-cholesterol acyltransferase gene. <b>1995</b> , 270, 9443-7	24
1724	SH3 domains specifically regulate kinase activity of expressed Src family proteins. <b>1995</b> , 270, 333-9	21
1723	Reconstitution of the B cell antigen receptor signaling components in COS cells. <b>1995</b> , 270, 27072-8	18

1722	Role of the enzyme calmodulin-binding domain in membrane association and phospholipid inhibition of endothelial nitric oxide synthase. <b>1995</b> , 270, 14705-11	81
1721	Alanine substitution of two arginines in amino terminus of V3 of SIV disrupts CD4 binding whereas a similar replacement of two amino acids, lysine and arginine, in the carboxyl half of V3 prevents binding of a neutralizing monoclonal antibody. <b>1995</b> , 11, 1101-5	O
1720	The role of cysteine residues in the erythrocyte plasma membrane anion exchange protein, AE1. <b>1995</b> , 270, 8521-7	47
1719	Targeting of protein ERGIC-53 to the ER/ERGIC/cis-Golgi recycling pathway. <b>1995</b> , 131, 57-67	107
1718	The activation-resistant conformation of recombinant human plasminogen is stabilized by basic residues in the amino-terminal hinge region. <b>1995</b> , 270, 15770-6	36
1717	Sequence identity and antigenic cross-reactivity of white face hornet venom allergen, also a hyaluronidase, with other proteins. <b>1995</b> , 270, 4457-65	63
1716	Characterization of the nucleotide binding properties and ATPase activity of recombinant hamster BiP purified from bacteria. <b>1995</b> , 270, 26670-6	72
1715	Amino acid substitutions can influence the natural killer (NK)-mediated recognition of HLA-C molecules. Role of serine-77 and lysine-80 in the target cell protection from lysis mediated by "group 2" or "group 1" NK clones. <b>1995</b> , 182, 605-9	176
1714	Molecular evolution of a class C beta-lactamase extending its substrate specificity. <b>1995</b> , 270, 5729-35	66
1713	Analysis of hepatocyte nuclear factor-3 beta protein domains required for transcriptional activation and nuclear targeting. <b>1995</b> , 23, 1184-91	116
1712	The propeptide is nonessential for the expression of human cathepsin D. <b>1995</b> , 270, 9778-82	23
1711	Critical residues in the ligand-binding site of the Staphylococcus aureus collagen-binding adhesin (MSCRAMM). <b>1995</b> , 270, 12005-11	55
1710	Molecular mapping of functional antibody binding sites of alpha 4 integrin. <b>1995</b> , 270, 14270-3	44
1709	Identification of a negative cis-regulatory element and trans-acting protein that inhibit transcription of the angiotensin II type 1a receptor gene. <b>1995</b> , 270, 24282-6	19
1708	Streptolydigin resistance can be conferred by alterations to either the beta or betaMubunits of Bacillus subtilis RNA polymerase. <b>1995</b> , 270, 23930-3	34
1707	Human hepatic and lipoprotein lipase: the loop covering the catalytic site mediates lipase substrate specificity. <b>1995</b> , 270, 25396-401	95
1706	Spermidine-preferential uptake system in Escherichia coli. ATP hydrolysis by PotA protein and its association with membrane. <b>1995</b> , 270, 25377-82	33
1705	Pro-inflammatory cytokines and environmental stress cause p38 mitogen-activated protein kinase activation by dual phosphorylation on tyrosine and threonine. <b>1995</b> , 270, 7420-6	1843

1704	Integration of MAP kinase signal transduction pathways at the serum response element. <b>1995</b> , 269, 403-7	881
1703	Human gene for beta-microseminoprotein: its promoter structure and chromosomal localization. <b>1995</b> , 117, 346-52	18
1702	apobec-1, the Catalytic Subunit of the Mammalian Apolipoprotein B mRNA Editing Enzyme, Is a Novel RNA-binding Protein. <b>1995</b> , 270, 14762-14767	92
1701	Analysis of EGFR, TGF-alpha, neu and c-myc in 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine-induced mammary tumors using RT-PCR. <b>1995</b> , 16, 3087-92	17
1700	Myogenic regulatory factors can activate TATA-containing promoter elements via an E-box independent mechanism. <b>1995</b> , 270, 15664-70	35
1699	trans-Golgi retention of a plasma membrane protein: mutations in the cytoplasmic domain of the asialoglycoprotein receptor subunit H1 result in trans-Golgi retention. <b>1995</b> , 130, 285-97	16
1698	Mutagenesis of the putative alpha-helical domain of the Vpr protein of human immunodeficiency virus type 1: effect on stability and virion incorporation. <b>1995</b> , 92, 3794-8	68
1697	The cytoplasmic tail of the G-protein-coupled receptor for parathyroid hormone and parathyroid hormone-related protein contains positive and negative signals for endocytosis. <b>1995</b> , 270, 151-6	109
1696	Peptidoglycan-associated lipoprotein-TolB interaction. A possible key to explaining the formation of contact sites between the inner and outer membranes of Escherichia coli. <b>1995</b> , 270, 11071-7	112
1695	Characterization of orphan nuclear receptor binding elements in sex-differentiated members of the CYP2C gene family expressed in rat liver. <b>1995</b> , 270, 11276-81	25
1694	Sites of selective cAMP-dependent phosphorylation of the L-type calcium channel alpha 1 subunit from intact rabbit skeletal muscle myotubes. <b>1995</b> , 270, 16371-7	50
1693	Identification of a domain in the angiotensin II type 1 receptor determining Gq coupling by the use of receptor chimeras. <b>1995</b> , 270, 16677-82	133
1692	The groove between the alpha- and beta-subunits of hormones with lutropin (LH) activity appears to contact the LH receptor, and its conformation is changed during hormone binding. <b>1995</b> , 270, 20011-9	95
1691	Identification of domains of the human A1 adenosine receptor that are important for binding receptor subtype-selective ligands using chimeric A1/A2a adenosine receptors. <b>1995</b> , 270, 20485-90	32
1690	Replacements of histidine 226 of NhaA-Na+/H+ antiporter of Escherichia coli. Cysteine (H226C) or serine (H226S) retain both normal activity and pH sensitivity, aspartate (H226D) shifts the pH profile toward basic pH, and alanine (H226A) inactivates the carrier at all pH values. <b>1995</b> , 270, 26813-7	40
1689	DNA structure determines protein binding and transcriptional efficiency of the proenkephalin cAMP-responsive enhancer. <b>1995</b> , 270, 27702-10	20
1688	Short external loops as potential substrate binding site of gamma-aminobutyric acid transporters. <b>1995</b> , 270, 28712-5	46
1687	The hydroxy amino acid in an Asn-X-Ser/Thr sequon can influence N-linked core glycosylation efficiency and the level of expression of a cell surface glycoprotein. <b>1995</b> , 270, 14756-61	121

1686	Truncation of the C-terminal tail of the follitropin receptor does not impair the agonist- or phorbol ester-induced receptor phosphorylation and uncoupling. <b>1995</b> , 270, 26683-9	48
1685	Introduction of lysine residues on the light chain constant domain improves the labelling properties of a recombinant Fab fragment. <b>1995</b> , 8, 185-91	11
1684	Mutagenesis of apobec-1, the Catalytic Subunit of the Mammalian Apolipoprotein B mRNA Editing Enzyme, Reveals Distinct Domains That Mediate Cytosine Nucleoside Deaminase, RNA Binding, and RNA Editing Activity. <b>1995</b> , 270, 14768-14775	100
1683	C-Terminal Deletion Analysis of Plant Plasma Membrane H + -ATPase: Yeast as a Model System for Solute Transport across the Plant Plasma Membrane. <b>1995</b> , 7, 1655	45
1682	The Saccharomyces cerevisiae HSP12 gene is activated by the high-osmolarity glycerol pathway and negatively regulated by protein kinase A. <b>1995</b> , 15, 6232-45	182
1681	Identification of a novel p53 promoter element involved in genotoxic stress-inducible p53 gene expression. <b>1995</b> , 15, 4489-96	97
1680	Single-chain anti-DNA FV. <b>1995</b> , 51, 265-79	5
1679	Combinatorial libraries by cassette mutagenesis. <b>1995</b> , 23, 1834-5	16
1678	Involvement of the NH2-terminal region of oryzacystatin-I in cysteine proteinase inhibition. <b>1995</b> , 8, 1303-7	17
1677	Identification of residues involved in substrate recognition by a vesicular monoamine transporter. <b>1995</b> , 270, 25798-804	64
1676	Control of proton sensitivity of the NMDA receptor by RNA splicing and polyamines. <b>1995</b> , 268, 873-6	338
1675	A cluster of basic amino acids within an alpha-helix is essential for alpha-subunit recognition by the glycoprotein hormone N-acetylgalactosaminyltransferase. <b>1995</b> , 92, 502-6	75
1674	Gain-of-function mutations conferring actin-severing activity to human macrophage cap G. <b>1995</b> , 270, 45-8	23
1673	A determinant in the cytoplasmic tail of the cation-dependent mannose 6-phosphate receptor prevents trafficking to lysosomes. <b>1995</b> , 130, 1297-306	75
1672	Pleckstrin inhibits phosphoinositide hydrolysis initiated by G-protein-coupled and growth factor receptors. A role for pleckstrinMPH domains. <b>1995</b> , 270, 14485-92	38
1671	Apoptotic phenotype induced by overexpression of wild-type gas3/PMP22: its relation to the demyelinating peripheral neuropathy CMT1A. <b>1995</b> , 9, 1846-56	143
1670	Mutational analysis of DNase I-DNA interactions: design, expression and characterization of a DNase I loop insertion mutant with altered sequence selectivity. <b>1995</b> , 8, 283-91	13
1669	The DNA binding activity and the dimerization ability of the thyroid transcription factor I are redox regulated. <b>1995</b> , 270, 12048-55	63

1668	The role of the amino-terminal domain and the collagenous region in the structure and the function of rat surfactant protein D. <b>1995</b> , 270, 19052-8	35
1667	Identification of residues in the V domain of CD80 (B7-1) implicated in functional interactions with CD28 and CTLA4. <b>1995</b> , 182, 667-75	44
1666	The interaction of calmodulin with clathrin-coated vesicles, triskelions, and light chains. Localization of a binding site. <b>1995</b> , 270, 2395-402	27
1665	RNA polymerase II subunit RPB9 is required for accurate start site selection. <b>1995</b> , 9, 481-90	85
1664	Yeast Gaa1p is required for attachment of a completed GPI anchor onto proteins. <b>1995</b> , 129, 629-39	156
1663	Zone mapping of the binding domain of the rat low affinity nerve growth factor receptor by the introduction of novel N-glycosylation sites. <b>1995</b> , 270, 4594-602	28
1662	Regulation of HIV-1 gag protein subcellular targeting by protein kinase C. <b>1995</b> , 270, 4792-6	22
1661	Involvement of both major histocompatibility complex class II alpha and beta chains in CD4 function indicates a role for ordered oligomerization in T cell activation. <b>1995</b> , 182, 779-87	106
1660	Potassium channel structure and function as reported by a single glycosylation sequon. <b>1995</b> , 270, 15336-40	57
1659	Elongation activity of poliovirus RNA polymerase derived from Sabin type 1 sequence is not temperature sensitive. <b>1995</b> , 76 ( Pt 8), 2081-4	3
1658	T cell-targeted immunofusion proteins from Escherichia coli. <b>1995</b> , 270, 14951-7	9
1657	Biochemical characterization of a palmitoyl acyltransferase activity that palmitoylates myristoylated proteins. <b>1995</b> , 270, 22399-405	127
1656	Identity of the segment of human complement C8 recognized by complement regulatory protein CD59. <b>1995</b> , 270, 19723-8	51
1655	Cellular factors binding to a novel cis-acting element mediate steroid hormone responsiveness of mouse mammary tumor virus promoter. <b>1995</b> , 270, 24502-8	35
1654	The human leukocyte antigen A2 interferon-stimulated response element consensus sequence binds a nuclear factor required for constitutive expression. <b>1995</b> , 270, 12276-85	17
1653	The Golgi-localization of yeast Emp47p depends on its di-lysine motif but is not affected by the ret1-1 mutation in alpha-COP. <b>1995</b> , 131, 895-912	169
1652	A binding interface on the I domain of lymphocyte function-associated antigen-1 (LFA-1) required for specific interaction with intercellular adhesion molecule 1 (ICAM-1). <b>1995</b> , 270, 19008-16	139
1651	Rho family GTPases regulate p38 mitogen-activated protein kinase through the downstream mediator Pak1. <b>1995</b> , 270, 23934-6	622

## (1995-1995)

1650	c/EBP-related sites in addition to a STAT site are necessary for ciliary neurotrophic factor-leukemia inhibitory factor-dependent transcriptional activation by the vasoactive intestinal peptide cytokine response element. <b>1995</b> , 270, 8068-75	21
1649	In vivo expression of mammalian BiP ATPase mutants causes disruption of the endoplasmic reticulum. <b>1995</b> , 6, 283-96	87
1648	Both extracellular immunoglobin-like domains of CD80 contain residues critical for binding T cell surface receptors CTLA-4 and CD28. <b>1995</b> , 270, 21181-7	109
1647	Substitutions in conserved dodecapeptide motifs that uncouple the DNA binding and DNA cleavage activities of PI-SceI endonuclease. <b>1995</b> , 270, 5849-56	90
1646	TOR mutations confer rapamycin resistance by preventing interaction with FKBP12-rapamycin. <b>1995</b> , 270, 27531-7	180
1645	Pax3 inhibits myogenic differentiation of cultured myoblast cells. <b>1995</b> , 270, 11719-22	165
1644	Altering specific telomerase RNA template residues affects active site function. <b>1995</b> , 9, 2214-26	83
1643	Phosphorylation of tristetraprolin, a potential zinc finger transcription factor, by mitogen stimulation in intact cells and by mitogen-activated protein kinase in vitro. <b>1995</b> , 270, 13341-7	106
1642	Active site mutations of Pseudomonas aeruginosa exotoxin A. Analysis of the His440 residue. <b>1995</b> , 270, 679-84	19
1641	Plasminogen activator inhibitor type 2 inhibits tumor necrosis factor alpha-induced apoptosis. Evidence for an alternate biological function. <b>1995</b> , 270, 27894-904	163
1640	Cell-specific activation of the glial-specific JC virus early promoter by large T antigen. <b>1995</b> , 270, 13240-5	16
1639	Altered carbohydrate recognition specificity engineered into surfactant protein D reveals different binding mechanisms for phosphatidylinositol and glucosylceramide. <b>1995</b> , 270, 14725-32	36
1638	Human cathepsin G lacking functional glycosylation site is proteolytically processed and targeted for storage in granules after transfection to the rat basophilic/mast cell line RBL or the murine myeloid cell line 32D. <b>1995</b> , 270, 28413-8	23
1637	In vitro dissociation of BiP-peptide complexes requires a conformational change in BiP after ATP binding but does not require ATP hydrolysis. <b>1995</b> , 270, 26677-82	113
1636	Effects of chemical modification on the binding activities of P-selectin mutants. <b>1995</b> , 34, 5678-84	12
1635	Use of designed metal-binding sites to study helix proximity in the lactose permease of Escherichia coli. 2. Proximity of helix IX (Arg302) with helix X (His322 and Glu325). <b>1995</b> , 34, 15667-70	71
1634	Staphylococcal enterotoxin A has two cooperative binding sites on major histocompatibility complex class II. <b>1995</b> , 182, 711-20	152
1633	Regulatory changes in the control of carbamoyl phosphate synthetase induced by truncation and mutagenesis of the allosteric binding domain. <b>1995</b> , 34, 13920-7	27

1632	The manganese binding site of manganese peroxidase: characterization of an Asp179Asn site-directed mutant protein. <b>1995</b> , 34, 10620-7	51
1631	Cloning of the murine counterpart of the tumor-associated antigen H-L6: epitope mapping of the human and murine L6 antigens. <b>1995</b> , 34, 12653-60	6
1630	Cysteine scanning mutagenesis of helix V in the lactose permease of Escherichia coli. <b>1995</b> , 34, 9374-9	22
1629	Analysis of gp39/CD40 interactions using molecular models and site-directed mutagenesis. <b>1995</b> , 34, 9884-92	57
1628	Use of designed metal-binding sites to study helix proximity in the lactose permease of Escherichia coli. 1. Proximity of helix VII (Asp237 and Asp240) with helices X (Lys319) and XI (Lys358). <b>1995</b> , 34, 15661-6	63
1627	Asp 46 can substitute Asp 96 as the Schiff base proton donor in bacteriorhodopsin. <b>1995</b> , 34, 15599-606	6
1626	Identification and molecular localization of a pH-sensing domain for the inward rectifier potassium channel HIR. <b>1995</b> , 15, 1157-68	119
1625	Topology of the pore-region of a K+ channel revealed by the NMR-derived structures of scorpion toxins. <b>1995</b> , 15, 1169-81	251
1624	Mutation of an arginine residue in the human glycine receptor transforms beta-alanine and taurine from agonists into competitive antagonists. <b>1995</b> , 14, 169-75	151
1623	Protein engineering and biosynthesis of nisin and regulation of transcription of the structural nisA gene. <b>1995</b> , 5, 785-795	19
1622	The cytoplasmic and transmembrane domains of MHC class II beta chains deliver distinct signals required for MHC class II-mediated B cell activation. <b>1995</b> , 3, 349-58	39
1621	Purification of immunologically active recombinant 21.5 kDa isoform of human myelin basic protein. <b>1995</b> , 32, 1131-41	20
1620	A cell type-specific silencer in the human choline acetyltransferase gene requiring two distinct and interactive E boxes. <b>1995</b> , 30, 106-14	16
1619	Microvariation creates significant functional differences in the DR3 molecules. <b>1995</b> , 42, 61-71	20
1618	Differences in peptide binding of DR11 and DR13 microvariants demonstrate the power of minor variation in generating DR functional diversity. <b>1995</b> , 43, 101-12	9
1617	HLA-DR residues accessible under the peptide-binding groove contribute to polymorphic antibody epitopes. <b>1995</b> , 43, 243-50	11
1616	Quantitative analysis of messenger ribonucleic acid encoding natriuretic peptide receptors in aldosterone-producing adenoma. <b>1995</b> , 111, 139-46	2
1615	Photoaffinity cross-linking of TaqI restriction endonuclease using an aryl azide linked to the phosphate backbone. <i>Gene</i> , <b>1995</b> , 153, 1-8	47

1614	Recombinant histatins: functional domain duplication enhances candidacidal activity. <i>Gene</i> , <b>1995</b> , 161, 87-91	3.8	19
1613	Phage RNA polymerase vectors that allow efficient gene expression in both prokaryotic and eukaryotic cells. <i>Gene</i> , <b>1995</b> , 164, 75-9	3.8	10
1612	The protein-conducting channel in the membrane of the endoplasmic reticulum is open laterally toward the lipid bilayer. <b>1995</b> , 81, 207-14		244
1611	Mad-Max transcriptional repression is mediated by ternary complex formation with mammalian homologs of yeast repressor Sin3. <b>1995</b> , 80, 767-76		546
1610	Tumor suppressor p53 is a direct transcriptional activator of the human bax gene. <b>1995</b> , 80, 293-9		3503
1609	The protein kinase encoded by the Akt proto-oncogene is a target of the PDGF-activated phosphatidylinositol 3-kinase. <b>1995</b> , 81, 727-36		1825
1608	Opposing effects of ERK and JNK-p38 MAP kinases on apoptosis. <b>1995</b> , 270, 1326-31		4932
1607	Many combinations of amino acid sequences in a conserved region of the D1 protein satisfy photosystem II function. <b>1995</b> , 246, 120-31		27
1606	Contributions of multiple basic amino acids in the C-terminal region of yeast ribosomal protein L1 to 5 S rRNA binding and 60 S ribosome stability. <b>1995</b> , 246, 295-307		19
1605	Selective chain recognition in the C-terminal alpha-helical coiled-coil region of laminin. <b>1995</b> , 250, 64-73		46
1604	Voltage-dependent inactivation in a cardiac-skeletal chimeric calcium channel. <b>1995</b> , 360, 144-50		19
1603	Essential aspartic acid residues, Asp-133, Asp-163 and Asp-164, in the transmembrane helices of a Na+/H+ antiporter (NhaA) from Escherichia coli. <b>1995</b> , 363, 264-8		105
1602	Remarkable activity enhancement of thermolysin mutants. <b>1995</b> , 367, 73-6		38
1601	Site-directed mutants of the beta subunit of protein kinase CK2 demonstrate the important role of Pro-58. <b>1995</b> , 368, 211-4		11
1600	VIP17/MAL, a proteolipid in apical transport vesicles. <b>1995</b> , 377, 465-9		93
1599	[21] Site-directed mutagenesis by PCR: Substitution, insertion, deletion, and gene fusion. <b>1995</b> , 26, 309-	-323	15
1598	Quantitative analysis of hepatitis C virus RNA in liver biopsies by competitive reverse transcription and polymerase chain reaction. <b>1995</b> , 23, 403-11		28
1597	Mutant and native human beta-amyloid precursor proteins in transgenic mouse brain. <b>1995</b> , 16, 685-99		42

1596	An engineered Staphylococcus aureus PC1 beta-lactamase that hydrolyses third-generation cephalosporins. <b>1995</b> , 8, 1275-85	12
1595	Helix packing in the sucrose permease of Escherichia coli: properties of engineered charge pairs between helices VII and XI. <b>1995</b> , 34, 9368-73	25
1594	Optimization of bacteriocin-release-protein-induced protein release by Escherichia coli: extracellular production of the periplasmic molecular chaperone FaeE. <b>1995</b> , 44, 459-65	19
1593	Secretion by Saccharomyces cerevisiae of rat apolipoprotein E as a fusion to Mucor rennin. <b>1995</b> , 42, 865-70	1
1592	Modulation of Na+ channel inactivation by the beta 1 subunit: a deletion analysis. <b>1995</b> , 431, 186-95	64
1591	Determination of the structural requirements for palmitoylation of p63. <b>1995</b> , 270, 9638-44	35
1590	Reconstructed 19 kDa catalytic domain of gelatinase A is an active proteinase. <b>1995</b> , 34, 4702-8	45
1589	Transcription factor ATF2 regulation by the JNK signal transduction pathway. <b>1995</b> , 267, 389-93	1357
1588	Expression and purification of the HIV type 1 Rev protein produced in Escherichia coli and its use in the generation of monoclonal antibodies. <b>1995</b> , 11, 945-53	10
1587	Antibody Engineering Protocols. 1995,	1
1586	Ion, water and neutral solute transport in Xenopus oocytes expressing frog lens MIP. <b>1995</b> , 61, 351-62	73
1585	A role for phosphorylation in the proteolytic processing of the human NF-kappa B1 precursor. <i>Gene</i> , <b>1995</b> , 165, 183-9	32
1584	Secretion of recombinant human IgE-Fc by mammalian cells and biological activity of glycosylation site mutants. <b>1995</b> , 8, 193-9	46
1583	Comparison of lethal and nonlethal transthyretin variants and their relationship to amyloid disease. <b>1995</b> , 34, 13527-36	185
	1773, 54, 15521 56	
1582	Metabolic Engineering of a Pentose Metabolism Pathway in Ethanologenic Zymomonas mobilis. <b>1995</b> , 267, 240-3	587
1582 1581	Metabolic Engineering of a Pentose Metabolism Pathway in Ethanologenic Zymomonas mobilis.	587 71
	Metabolic Engineering of a Pentose Metabolism Pathway in Ethanologenic Zymomonas mobilis.  1995, 267, 240-3  Effects of propofol on various AMPA-, kainate- and NMDA-selective glutamate receptor channels	

1578	Site-directed mutagenesis using overlap extension PCR. <b>1996</b> , 57, 177-91	120
1577	Motion of spin-labeled side chains in T4 lysozyme. Correlation with protein structure and dynamics. <b>1996</b> , 35, 7692-704	534
1576	Araucan and caupolican, two members of the novel iroquois complex, encode homeoproteins that control proneural and vein-forming genes. <b>1996</b> , 85, 95-105	274
1575	Proteasome inhibition enhances the stability of mouse CuZn superoxide dismutase with mutations linked to familial amyotrophic lateral sclerosis. <b>1996</b> , 139, 15-20	98
1574	T-cell-targeted immunofusion proteins from E. coli. <b>1996</b> , 782, 544-54	3
1573	Mutagenesis and crystallographic studies of Zymomonas mobilis tRNA-guanine transglycosylase reveal aspartate 102 as the active site nucleophile. <b>1996</b> , 35, 15734-9	45
1572	Importance of highly conserved anionic residues and electrostatic interactions in the activity and structure of the cardiotonic polypeptide anthopleurin B. <b>1996</b> , 35, 3503-7	29
1571	Specific phosphorylation of a site in the full-length form of the alpha 1 subunit of the cardiac L-type calcium channel by adenosine 3 Mtyclic monophosphate-dependent protein kinase. <b>1996</b> , 35, 10392-402	251
1570	Cysteine-scanning mutagenesis of transmembrane domain XII and the flanking periplasmic loop in the lactose permease of EScherichia coli. <b>1996</b> , 35, 12909-14	34
1569	Comparison of the functional differences for the homologous residues within the carboxy phosphate and carbamate domains of carbamoyl phosphate synthetase. <b>1996</b> , 35, 14362-9	33
1568	Probing the coenzyme and substrate binding events of CDP-D-glucose 4,6-dehydratase: mechanistic implications. <b>1996</b> , 35, 4721-31	35
1567	Cysteine-scanning mutagenesis of helix VI and the flanking hydrophilic domains on the lactose permease of Escherichia coli. <b>1996</b> , 35, 5333-8	34
1566	Thiopurine methyltransferase pharmacogenetics: human gene cloning and characterization of a common polymorphism. <b>1996</b> , 15, 17-30	281
1565	The contribution of lysine-36 to catalysis by human myo-inositol monophosphatase. <b>1996</b> , 35, 10957-66	22
1564	Consequences of mutations to the phosphorylation site of the alpha-subunit of Na, K-ATPase for ATP binding and E1-E2 conformational equilibrium. <b>1996</b> , 35, 16085-93	45
1563	Structure and kinetics of the beta-lactamase mutants S70A and K73H from Staphylococcus aureus PC1. <b>1996</b> , 35, 12251-8	30
1562	Quantitative dynamics of HIV type 1 expression. <b>1996</b> , 12, 117-126	24
1561	Characterization of the metal-binding sites of the beta-lactamase from Bacteroides fragilis. <b>1996</b> , 35, 12126-32	108

1560	Evidence for the interaction of avian 3-hydroxy-3-methylglutaryl-CoA synthase histidine 264 with acetoacetyl-CoA. <b>1996</b> , 35, 9610-6		30
1559	Rational modulation of the catalytic activity of A1-1 glutathione S-transferase: evidence for incorporation of an on-face (piHO-Ar) hydrogen bond at tyrosine-9. <b>1996</b> , 35, 11938-44		26
1558	Characterization of manganese(II) binding site mutants of manganese peroxidase. <b>1996</b> , 35, 8986-94		78
1557	Elimination of the hydrolytic water molecule in a class A beta-lactamase mutant: crystal structure and kinetics. <b>1996</b> , 35, 16475-82		32
1556	Identification of tyrosine 489 in the carboxy terminus of the Tpr-Met oncoprotein as a major site of autophosphorylation. <b>1996</b> , 35, 1010-7		17
1555	Energy transduction and kinetic regulation by the peptide segment connecting phosphorylation and cation binding domains in transport ATPases. <b>1996</b> , 35, 11019-25		15
1554	Role of conserved residues within the carboxy phosphate domain of carbamoyl phosphate synthetase. <b>1996</b> , 35, 14352-61		57
1553	Spectroscopic characterization of a high-affinity calmodulin-target peptide hybrid molecule. <b>1996</b> , 35, 3508-17		44
1552	Identification of the epitope for monoclonal antibody 4B1 which uncouples lactose and proton translocation in the lactose permease of Escherichia coli. <b>1996</b> , 35, 990-8		84
1551	A rapid screen of active site mutants in glycinamide ribonucleotide transformylase. <b>1996</b> , 35, 8855-62		56
1550	Cloning and characterization of two yeast genes encoding members of the CCCH class of zinc finger proteins: zinc finger-mediated impairment of cell growth. <i>Gene</i> , <b>1996</b> , 174, 225-33	3.8	62
1549	Substitutions in the HLA-DR alpha chain differentially affect DR7-restricted T-cell recognition of rabies virus antigen. <b>1996</b> , 45, 111-6		1
1548	Quantitative analysis of pancreatic glucokinase gene expression in cultured beta cells by competitive polymerase chain reaction. <b>1996</b> , 117, 175-81		12
1547	Binding of matrix attachment regions to nuclear lamin is mediated by the rod domain and depends on the lamin polymerization state. <b>1996</b> , 380, 161-4		46
1546	Site-directed mutagenesis but not gamma-carboxylation of Glu-35 in factor VIIa affects the association with tissue factor. <b>1996</b> , 385, 241-3		27
1545	Cloning of the canine GALC cDNA and identification of the mutation causing globoid cell leukodystrophy in West Highland White and Cairn terriers. <b>1996</b> , 33, 457-62		68
1544	Non-conservative mutations are well tolerated in the globular region of yeast histone H4. <b>1996</b> , 255, 401-11		1
1543	The I binding specificity of human VH 4-34 (VH 4-21) encoded antibodies is determined by both VH framework region 1 and complementarity determining region 3. <b>1996</b> , 256, 577-89		82

1542	Mutations within a conserved region of vaccinia topoisomerase affect the DNA cleavage-religation equilibrium. <b>1996</b> , 263, 181-95	26
1541	Activity studies and crystal structures of catalytically deficient mutants of cellobiohydrolase I from Trichoderma reesei. <b>1996</b> , 264, 337-49	143
1540	Hepatocyte nuclear factor 3beta participates in the transcriptional regulation of the thyroperoxidase promoter. <b>1996</b> , 220, 86-93	18
1539	The cdk2 binding domain of p27Kip correlates with the inhibition of the kinase activity of cdk2/cyclin complexes. <b>1996</b> , 220, 703-9	9
1538	Recombinant alpha 1(VIII) collagen chains form homotrimers in vitro. <b>1996</b> , 227, 205-10	12
1537	The role of individual cysteine residues in the processing, structure, and function of human macrophage colony-stimulating factor. <b>1996</b> , 228, 557-66	12
1536	Removal of substrate inhibition in a lactate dehydrogenase from human muscle by a single residue change. <b>1996</b> , 399, 193-7	47
1535	Molecular mapping of the 8.12 SLE-associated idiotype specificity at the single amino acid level. <b>1996</b> , 33, 1255-65	3
1534	Kv beta 1 subunit binding specific for shaker-related potassium channel alpha subunits. <b>1996</b> , 16, 455-63	179
1533	Functional analysis of the weaver mutant GIRK2 K+ channel and rescue of weaver granule cells. <b>1996</b> , 16, 941-52	177
1532	Binding of zinc finger protein ZPR1 to the epidermal growth factor receptor. <b>1996</b> , 272, 1797-802	96
1531	Multiple extracellular elements of CCR5 and HIV-1 entry: dissociation from response to chemokines. <b>1996</b> , 274, 1924-6	309
1530	Homology modeling of the structure of bacterial acetohydroxy acid synthase and examination of the active site by site-directed mutagenesis. <b>1996</b> , 35, 16282-91	69
1529	Contribution of cutinase serine 42 side chain to the stabilization of the oxyanion transition state. <b>1996</b> , 35, 398-410	83
1528	Monoclonal antibody 4B1 alters the pKa of a carboxylic acid at position 325 (helix X) of the lactose permease of Escherichia coli. <b>1996</b> , 35, 10166-71	37
1527	Structural determinants of the uridine-preferring specificity of RNase PL3. <b>1996</b> , 35, 9128-32	11
1526	Inducible nitric oxide synthase requires both the canonical calmodulin-binding domain and additional sequences in order to bind calmodulin and produce nitric oxide in the absence of free Ca2+. <b>1996</b> , 271, 22679-86	75
1525	An amino acid substitution in the pore region of a glutamate-gated chloride channel enables the coupling of ligand binding to channel gating. <b>1996</b> , 271, 16035-9	59

1524	Dexamethasone responsiveness of a major glucocorticoid-inducible CYP3A gene is mediated by elements unrelated to a glucocorticoid receptor binding motif. <b>1996</b> , 93, 4666-70	65
1523	A Block to Efficient Replication of Simian Immunodeficiency Virus in C8166 Cells Can Be Overcome by Duplication of the NF-kB Binding Site. <b>1996</b> , 3, 415-421	
1522	Mutations in copper-zinc superoxide dismutase that cause amyotrophic lateral sclerosis alter the zinc binding site and the redox behavior of the protein. <b>1996</b> , 93, 12240-4	167
1521	Identification of a binding site for integrin alphaEbeta7 in the N-terminal domain of E-cadherin. <b>1996</b> , 271, 30909-15	70
1520	The TACAN4TGCA motif upstream from the -35 region in the sigma70-sigmaS-dependent Pm promoter of the TOL plasmid is the minimum DNA segment required for transcription stimulation by XylS regulators. <b>1996</b> , 178, 6427-34	33
1519	Mutations in the pore region of ROMK enhance Ba2+ block. <b>1996</b> , 271, C1949-56	70
1518	Amphipathic domains in the C terminus of the transmembrane protein (gp41) permeabilize HIV-1 virions: a molecular mechanism underlying natural endogenous reverse transcription. <b>1996</b> , 93, 12519-24	38
1517	Specific cleavage of the retinoblastoma protein by an ICE-like protease in apoptosis <b>1996</b> , 15, 6969-6978	191
1516	Connectivity and orientation of the seven helical bundle in the tachykinin NK-1 receptor probed by zinc site engineering <b>1996</b> , 15, 6213-6219	73
1515	Identification of three physically and functionally distinct binding sites for C3b in human complement factor H by deletion mutagenesis. <b>1996</b> , 93, 10996-1001	188
1514	Determination of the structure of the N-terminal splice region of the cyclic AMP-specific phosphodiesterase RD1 (RNPDE4A1) by 1H NMR and identification of the membrane association domain using chimeric constructs. <b>1996</b> , 271, 16703-11	46
1513	Second-site reversion of a structural defect in bacteriophage T4 lysozyme. <b>1996</b> , 10, 159-63	7
1512	Activation of the mitogen-activated protein kinase pathway induces transcription of the PAC-1 phosphatase gene. <b>1996</b> , 16, 2913-21	70
1511	Construction of an internal control to quantitate multiple porcine cytokine mRNAs by RT-PCR. <b>1996</b> , 21, 868-70, 872, 875	31
1510	Membrane topology of the outer membrane protein OprH from Pseudomonas aeruginosa: PCR-mediated site-directed insertion and deletion mutagenesis. <b>1996</b> , 178, 3346-9	22
1509	Characterization of mouse angiogenin-related protein: implications for functional studies on angiogenin. <b>1996</b> , 93, 4331-5	25
1508	Efficient long-PCR site-specific mutagenesis of a high GC template. <b>1996</b> , 21, 472-4, 476-8, 480	9
1507	Transcription factor IIA mutations show activator-specific defects and reveal a IIA function distinct from stimulation of TBP-DNA binding. <b>1996</b> , 271, 11182-90	42

1506	Selective interaction of JNK protein kinase isoforms with transcription factors <b>1996</b> , 15, 2760-2770	993
1505	The Saccharomyces cerevisiae Msh2 and Msh6 proteins form a complex that specifically binds to duplex oligonucleotides containing mismatched DNA base pairs. <b>1996</b> , 16, 5604-15	146
1504	Identification of neurofibromin mutants that exhibit allele specificity or increased Ras affinity resulting in suppression of activated ras alleles. <b>1996</b> , 16, 2496-503	31
1503	Inward rectification of the IRK1 channel expressed in Xenopus oocytes: effects of intracellular pH reveal an intrinsic gating mechanism. <b>1996</b> , 494 ( Pt 2), 363-76	39
1502	MKK3- and MKK6-regulated gene expression is mediated by the p38 mitogen-activated protein kinase signal transduction pathway. <b>1996</b> , 16, 1247-55	1141
1501	Structural determinants of channel conductance in fetal and adult rat muscle acetylcholine receptors. <b>1996</b> , 492 ( Pt 3), 775-87	34
1500	In vitro recombination and mutagenesis of DNA. SOEing together tailor-made genes. <b>1997</b> , 67, 141-9	58
1499	A membrane-proximal region of the interleukin-2 receptor gamma c chain sufficient for Jak kinase activation and induction of proliferation in T cells. <b>1996</b> , 16, 309-17	66
1498	Activation of transcription by PU.1 requires both acidic and glutamine domains. <b>1996</b> , 16, 390-7	83
1497	Structure-function comparisons of the proapoptotic protein Bax in yeast and mammalian cells. <b>1996</b> , 16, 6494-508	269
1496	The transcriptional activator hepatocyte nuclear factor 6 regulates liver gene expression. <b>1996</b> , 16, 6273-84	140
1495	Specific RNA residue interactions required for enzymatic functions of Tetrahymena telomerase. <b>1996</b> , 16, 66-75	81
1494	Phosphorylation of IkappaBalpha in the C-terminal PEST domain by casein kinase II affects intrinsic protein stability. <b>1996</b> , 16, 1401-9	195
1493	Activation of codependent transcription factors is required for transcriptional induction of the vgf gene by nerve growth factor and Ras. <b>1996</b> , 16, 4621-31	32
1492	Mercuric ion reduction and resistance in transgenic Arabidopsis thaliana plants expressing a modified bacterial merA gene. <b>1996</b> , 93, 3182-7	344
1491	Homologous pairs of regulatory proteins control activity of Bacillus subtilis transcription factor sigma(b) in response to environmental stress. <b>1996</b> , 178, 3846-53	107
1490	Duplicate isochorismate synthase genes of Bacillus subtilis: regulation and involvement in the biosyntheses of menaquinone and 2,3-dihydroxybenzoate. <b>1996</b> , 178, 854-61	41
1480	The transformylase enzymes of de novo purine biosynthesis. <b>1996</b> , 68, 2029-2036	20

1488 Analysis of the Pseudomonas aeruginosa elastase (lasB) regulatory region. <b>1996</b> , 178, 11	34-40 81
Deletions of portions of the extracellular loops of the lutropin/choriogonadotropin rece 1487 decrease the binding affinity for ovine luteinizing hormone, but not human choriogonad preventing the formation of mature cell surface receptor. <b>1996</b> , 271, 4518-27	
1486 Site-directed mutagenic analysis of viral polymerases and related proteins. <b>1996</b> , 275, 53	<b>38-55</b> 5
$_{1485}$ The CXXC motif: imperatives for the formation of native disulfide bonds in the cell <b>199</b> 0	<b>6</b> , 15, 2659-2667 <sub>12</sub> 6
Function and membrane topology of wild-type and mutated cytochrome P-450c21. <b>1996</b> 1), 325-9	5, 316 ( Pt 19
Intracellular retention of a factor VIII protein with an Arg2307>Gln mutation as a cause haemophilia A. <b>1996</b> , 318 ( Pt 3), 931-7	of 14
Quantification of aggrecan and link-protein mRNA in human articular cartilage of differe competitive reverse transcriptase-PCR. <b>1996</b> , 319 ( Pt 2), 489-98	ent ages by 37
1481 Mechanism of activation of protein kinase B by insulin and IGF-1 <b>1996</b> , 15, 6541-6551	2180
$_{14}8_{ m O}$ A mutation that alters magnesium block of N-methyl-D-aspartate receptor channels. <b>199</b>	<b>96</b> , 93, 9259-63 19
Thermostable ligase-mediated incorporation of mutagenic oligonucleotides during PCR amplification. <b>1997</b> , 67, 189-95	1
Cystatin-like domain of mouse countertrypin, a member of mammalian fetuin family, is r for the inhibition of trypsin. Evidence from site-directed mutagenesis. <b>1996</b> , 39, 1023-8	esponsible 2
A Block to Efficient Replication of Simian Immunodeficiency Virus in C8166 Cells Can Be by Duplication of the NF-kappaB Binding Site. <b>1996</b> , 3, 415-421	Overcome 1
Construction of a functional cDNA clone of the hamster ERCC2 DNA repair and transcrip <b>1996</b> , 22, 453-60	tion gene.
1475 Application of linker-ligation-PCR for construction of phage display epitope libraries. <b>19</b> 9	<b>96</b> , 60, 147-54 9
Trp-16 is essential for the activity of alpha-galactosidase and alpha-N-acetylgalactosamir <b>1474 1996</b> , 1297, 99-104	nidase.
1473 Role of the variable domain in modulating potato spindle tuber viroid replication. <b>1996</b> ,	<b>219, 45-56</b> 18
Expression of distinct conformations of free HLA-Cw4 heavy chains in transfected neuro cells. <b>1996</b> , 43, 289-95	blastoma 5
CCAAT/enhancer-binding protein beta (C/EBP beta) binds and activates while hepatocyt factor-4 (HNF-4) does not bind but represses the liver-type arginase promoter. <b>1996</b> , 236	

1470	Tissue distribution of three members of the murine protein disulfide isomerase (PDI) family. <b>1996</b> , 1309, 253-60	21
1469	Application of suppression PCR to the megaprimer method for site-directed mutagenesis. <b>1996</b> , 13, 165-9	3
1468	Dynamics of Fusarium solani cutinase investigated through structural comparison among different crystal forms of its variants. <b>1996</b> , 26, 442-58	51
1467	Temporal expression of types XII and XIV collagen mRNA and protein during avian corneal development. <b>1996</b> , 206, 49-58	46
1466	Biliary glycoprotein 1 expression during embryogenesis: correlation with events of epithelial differentiation, mesenchymal-epithelial interactions, absorption, and myogenesis. <b>1996</b> , 206, 272-90	27
1465	Site-directed mutagenesis of monofunctional chorismate mutase engineered from the E. coli P-protein. <b>1996</b> , 4, 1015-20	37
1464	The N-terminal beta-barrel domain of the Escherichia coli K88 periplasmic chaperone FaeE determines fimbrial subunit recognition and dimerization. <b>1996</b> , 22, 379-88	7
1463	Chemotactic motility is required for invasion of the host by the fish pathogen Vibrio anguillarum. <b>1996</b> , 19, 625-37	133
1462	STAB-SD: a Shine-Dalgarno sequence in the 5Muntranslated region is a determinant of mRNA stability. <b>1996</b> , 20, 633-43	124
1461	The lumenal loop connecting transmembrane helices I and II of the D1 polypeptide is important for assembly of the photosystem two complex. <b>1996</b> , 50, 79-91	4
1460	Ethylene control of E4 transcription during tomato fruit ripening involves two cooperative cis elements. <b>1996</b> , 31, 1117-27	59
1459	Are turns required for the folding of ribonuclease T1?. <b>1996</b> , 5, 204-11	31
1458	Is the CvaA protein, encoded within the colicin V export gene cvaA, required for colicin V transport?. <b>1996</b> , 138, 201-6	1
1457	Isolation of Cry1Ab protein mutants of Bacillus thuringiensis by a highly efficient PCR site-directed mutagenesis system. <b>1996</b> , 145, 333-9	34
1456	Apoptosis of mouse dendritic cells is triggered by listeriolysin, the major virulence determinant of Listeria monocytogenes. <b>1996</b> , 20, 119-26	164
1455	Depletion in the levels of the release factor eRF1 causes a reduction in the efficiency of translation termination in yeast. <b>1996</b> , 20, 1135-43	54
1454	A new pattern for helix-turn-helix recognition revealed by the PU.1 ETS-domain-DNA complex. <b>1996</b> , 380, 456-60	273
1453	BMP-4-responsive regulation of dorsal-ventral patterning by the homeobox protein Mix.1. <b>1996</b> , 382, 357-60	136

1452	Engineering Enzymes for Bioorganic Synthesis: Peptide Bond Formation. <b>1996</b> , 12, 423-433	29
1451	Profactor IX propeptide and glutamate substrate binding sites on the vitamin K-dependent carboxylase identified by site-directed mutagenesis. <b>1996</b> , 271, 17837-44	30
1450	Inactivation defects caused by myotonia-associated mutations in the sodium channel III-IV linker. <b>1996</b> , 107, 559-76	116
1449	A reverse transcription-quantitative competitive polymerase chain reaction (RT-qcPCR) technique to measure cytokine gene expression in domestic mammals. <b>1996</b> , 33, 242-8	50
1448	Short and long range functions of amino acids in the transmembrane region of the sarcoplasmic reticulum ATPase. A mutational study. <b>1996</b> , 271, 10745-52	39
1447	The role of specific lysine residues in the passage of anions through the Pseudomonas aeruginosa porin OprP. <b>1996</b> , 271, 21239-42	15
1446	Molecular cloning and characterization of a novel protein kinase with a catalytic domain homologous to mitogen-activated protein kinase kinase kinase. <b>1996</b> , 271, 31607-11	124
1445	Identification of residues in the translocation pathway of EmrE, a multidrug antiporter from Escherichia coli. <b>1996</b> , 271, 21193-9	25
1444	HIV-induced apoptosis requires the CD4 receptor cytoplasmic tail and is accelerated by interaction of CD4 with p56lck. <b>1996</b> , 183, 39-48	47
1443	Glycosylation of CD44 is implicated in CD44-mediated cell adhesion to hyaluronan. <b>1996</b> , 132, 1199-208	155
1442	Native chick laminin-4 containing the beta 2 chain (s-laminin) promotes motor axon growth. <b>1996</b> , 135, 1583-92	70
1441	Cysteine34 of the cytoplasmic tail of the cation-dependent mannose 6-phosphate receptor is reversibly palmitoylated and required for normal trafficking and lysosomal enzyme sorting. <b>1996</b> , 132, 577-84	90
1440	Mammalian RAFT1 kinase domain provides rapamycin-sensitive TOR function in yeast. <b>1996</b> , 10, 279-88	34
1439	Ligand binding to integrin alphallbbeta3 is dependent on a MIDAS-like domain in the beta3 subunit. <b>1996</b> , 271, 21978-84	141
1438	A hydrophobic domain of Ca2+-modulating cyclophilin ligand modulates calcium influx signaling in T lymphocytes. <b>1996</b> , 271, 8549-52	30
1437	Role of electrostatic interactions in defining the potency of neurotoxin B-IV from Cerebratulus lacteus. <b>1996</b> , 271, 29752-8	7
1436	Constitutive expression of murine complement factor B gene is regulated by the interaction of its upstream promoter with hepatocyte nuclear factor 4. <b>1996</b> , 271, 30205-11	9
1435	In the TTF-1 homeodomain the contribution of several amino acids to DNA recognition depends on the bound sequence. <b>1996</b> , 24, 3283-8	7

1434	PCR Cloning Protocols. <b>1996</b> ,	9
1433	The amino acid at the X position of an Asn-X-Ser sequon is an important determinant of N-linked core-glycosylation efficiency. <b>1996</b> , 271, 6363-6	231
1432	Effect of the R569W missense mutation on the biosynthesis of myeloperoxidase. <b>1996</b> , 271, 9546-9	56
1431	Characterization of the 46-kDa intermediates of matrix metalloproteinase 3 (stromelysin 1) obtained by site-directed mutation of phenylalanine 83. <b>1996</b> , 271, 10715-22	25
1430	The role of Phe-92 in the Ca(2+)-induced conformational transition in the C-terminal domain of calmodulin. <b>1996</b> , 271, 11284-90	16
1429	Multiple extracellular loop domains contribute critical determinants for agonist binding and activation of the secretin receptor. <b>1996</b> , 271, 14944-9	82
1428	Self-activation of recombinant human lysosomal procathepsin D at a newly engineered cleavage junction, "short" pseudocathepsin D. <b>1996</b> , 271, 15590-6	47
1427	Structural requirements for the ectodomain cleavage of human cell surface macrophage colony-stimulating factor. <b>1996</b> , 271, 16338-43	19
1426	Reengineering the nucleotide cofactor specificity of the RecA protein by mutation of aspartic acid 100. <b>1996</b> , 271, 18326-8	16
1425	Differential regulation of G-protein-mediated signaling by chemokine receptors. <b>1996</b> , 271, 21814-9	160
1424	Ligand activation of ELK receptor tyrosine kinase promotes its association with Grb10 and Grb2 in vascular endothelial cells. <b>1996</b> , 271, 23588-93	112
1423	Androgen receptor-Ets protein interaction is a novel mechanism for steroid hormone-mediated down-modulation of matrix metalloproteinase expression. <b>1996</b> , 271, 23907-13	116
1422	A cAMP response element and an Ets motif are involved in the transcriptional regulation of flt-1 tyrosine kinase (vascular endothelial growth factor receptor 1) gene. <b>1996</b> , 271, 30823-8	118
1421	Expression in high yield of pig alpha 1 beta 1 Na,K-ATPase and inactive mutants D369N and D807N in Saccharomyces cerevisiae. <b>1996</b> , 271, 2514-22	60
1420	The N-terminal region of the third intracellular loop of the parathyroid hormone (PTH)/PTH-related peptide receptor is critical for coupling to cAMP and inositol phosphate/Ca2+ signal transduction pathways. <b>1996</b> , 271, 33382-9	70
1419	Study of antibody-antigen interaction through site-directed mutagenesis of the VH region of a hybrid phage-antibody fragment. <b>1996</b> , 9, 1211-7	11
1418	Rab8 promotes polarized membrane transport through reorganization of actin and microtubules in fibroblasts. <b>1996</b> , 135, 153-67	219
1417	Probing the role of the ATP-operated clamp in the strand-passage reaction of DNA gyrase. <b>1996</b> , 24, 4868-73	77

1416	Cloning of mouse integrin alphaV cDNA and role of the alphaV-related matrix receptors in metanephric development. <b>1996</b> , 132, 1161-76	64
1415	Different superantigens interact with distinct sites in the Vbeta domain of a single T cell receptor. <b>1996</b> , 183, 1437-46	56
1414	Construction of a high affinity zinc switch in the kappa-opioid receptor. <b>1996</b> , 271, 7875-8	78
1413	Modeling of a mutation responsible for human 3-hydroxy-3-methylglutaryl-CoA lyase deficiency implicates histidine 233 as an active site residue. <b>1996</b> , 271, 24604-9	22
1412	Identification, characterization, and comparison of the calmodulin-binding domains of the endothelial and inducible nitric oxide synthases. <b>1996</b> , 271, 6435-40	141
1411	Engineering a novel iron-sulfur cluster into the catalytic subunit of Escherichia coli dimethyl-sulfoxide reductase. <b>1996</b> , 271, 4620-6	24
1410	The endoplasmic reticulum degradation pathway for mutant secretory proteins alpha1-antitrypsin Z and S is distinct from that for an unassembled membrane protein. <b>1996</b> , 271, 13215-20	65
1409	The amino-terminal extracellular domain of the MCP-1 receptor, but not the RANTES/MIP-1alpha receptor, confers chemokine selectivity. Evidence for a two-step mechanism for MCP-1 receptor activation. <b>1996</b> , 271, 19084-92	176
1408	Genetic evidence for interdomain regulation of the phenol-responsive final sigma54-dependent activator DmpR. <b>1996</b> , 271, 17281-6	40
1407	Engineering the aggregation properties of dodecameric glutamine synthetase: a single amino acid substitution controls Malting outM1996, 9, 291-8	2
1406	In Vitro Mutagenesis Protocols. <b>1996</b> ,	1
1405	Genetic assay for multimerization of wild-type and mutant transthyretin. <b>1996</b> , 3, 245-251	
1404	A comparison of two murine monoclonal antibodies humanized by CDR-grafting and variable domain resurfacing. <b>1996</b> , 9, 895-904	47
1403	Expression, characterization, and genomic structure of carp JAK1 kinase gene. <b>1996</b> , 15, 827-44	27
1402	Characterization of the receptor binding sites of human leukemia inhibitory factor and creation of antagonists. <b>1996</b> , 271, 11971-8	80
1401	Identification of the major autophosphorylation sites of Nyk/Mer, an NCAM-related receptor tyrosine kinase. <b>1996</b> , 271, 18355-62	46
1400	Interferon-gamma induction of the human leukocyte antigen-E gene is mediated through binding of a complex containing STAT1alpha to a distinct interferon-gamma-responsive element. <b>1996</b> , 271, 20035-46	47
1399	Design of a C/EBP-specific, dominant-negative bZIP protein with both inhibitory and gain-of-function properties. <b>1996</b> , 271, 2040-7	46

1398	(TGF-beta) receptors define a model system for investigating the role of homomeric and heteromeric receptors in TGF-beta signaling. <b>1996</b> , 271, 21758-66	41
1397	Raf and mitogen-activated protein kinase regulate stellate cell collagen gene expression. <b>1996</b> , 271, 11039-42	73
1396	Novel sites of N-glycosylation in ROMK1 reveal the putative pore-forming segment H5 as extracellular. <b>1996</b> , 271, 24201-6	24
1395	Identification of essential residues in Thermus thermophilus DNA ligase. <b>1996</b> , 24, 3079-85	51
1394	Structure-function relations of smooth muscle calponin. The critical role of serine 175. <b>1996</b> , 271, 8605-11	40
1393	Novel multiubiquitin chain linkages catalyzed by the conjugating enzymes E2EPF and RAD6 are recognized by 26 S proteasome subunit 5. <b>1996</b> , 271, 2823-31	180
1392	Negative dominance studies demonstrate the oligomeric structure of EmrE, a multidrug antiporter from Escherichia coli. <b>1996</b> , 271, 31044-8	99
1391	cAMP-dependent phosphorylation of two sites in the alpha subunit of the cardiac sodium channel. <b>1996</b> , 271, 28837-43	85
1390	Suppression of stellate cell type I collagen gene expression involves AP-2 transmodulation of nuclear factor-1-dependent gene transcription. <b>1996</b> , 271, 25994-8	40
1389	Subunit association and DNA binding activity of the heterotrimeric transcription factor NF-Y is regulated by cellular redox. <b>1996</b> , 271, 28784-91	79
1388	A single N-linked glycosylation site is implicated in the regulation of ligand recognition by the I-type lectins CD22 and CD33. <b>1996</b> , 271, 18803-9	42
1387	Phosphorylation of tyrosine 397 in focal adhesion kinase is required for binding phosphatidylinositol 3-kinase. <b>1996</b> , 271, 26329-34	431
1386	The Gly40Ser mutation in the human glucagon receptor gene associated with NIDDM results in a receptor with reduced sensitivity to glucagon. <b>1996</b> , 45, 725-30	37
1385	Pip, a lymphoid-restricted IRF, contains a regulatory domain that is important for autoinhibition and ternary complex formation with the Ets factor PU.1. <b>1996</b> , 10, 2335-47	200
1384	The active site of Trichoderma reesei cellobiohydrolase II: the role of tyrosine 169. <b>1996</b> , 9, 691-9	68
1383	Solid-phase in vitro mutagenesis using a plasmid DNA template. <b>1996</b> , 57, 97-107	1
1382	Construction of linker-scanning mutations using PCR. <b>1996</b> , 57, 287-95	2
1381	A simple method for site-directed mutagenesis with double-stranded plasmid DNA. <b>1996</b> , 57, 75-85	

1380	Use of codon cassette mutagenesis for saturation mutagenesis. <b>1996</b> , 57, 297-310	5
1379	Zap1p, a metalloregulatory protein involved in zinc-responsive transcriptional regulation in Saccharomyces cerevisiae. <b>1997</b> , 17, 5044-52	232
1378	Inefficient secretion of human H27A-prolactin, a mutant that does not bind Zn2+. <b>1997</b> , 11, 1544-51	12
1377	Steroidogenic factor 1 (SF-1) and SP1 are required for regulation of bovine CYP11A gene expression in bovine luteal cells and adrenal Y1 cells. <b>1997</b> , 11, 127-37	130
1376	The proximal promoter region of the gene encoding human 17beta-hydroxysteroid dehydrogenase type 1 contains GATA, AP-2, and Sp1 response elements: analysis of promoter function in choriocarcinoma cells. <b>1997</b> , 138, 3417-25	50
1375	Multiple prolactin (PRL) receptor cytoplasmic residues and Stat1 mediate PRL signaling to the interferon regulatory factor-1 promoter. <b>1997</b> , 11, 1353-64	30
1374	Origin of substrate specificity of human and rat 17beta-hydroxysteroid dehydrogenase type 1, using chimeric enzymes and site-directed substitutions. <b>1997</b> , 138, 3532-9	57
1373	Phosphorylation of the lutropin/choriogonadotropin receptor facilitates uncoupling of the receptor from adenylyl cyclase and endocytosis of the bound hormone. <b>1997</b> , 11, 183-92	46
1372	Construction and diversity analysis of a murine IgE phage surface display library. <b>1997</b> , 7, 161-70	7
1371	The six N-linked carbohydrates of the lutropin/choriogonadotropin receptor are not absolutely required for correct folding, cell surface expression, hormone binding, or signal transduction. <b>1997</b> , 11, 550-62	81
1370	Identification of catalytic residues in human mevalonate kinase. <b>1997</b> , 272, 25449-54	61
1369	Crystal structures of substrate binding site mutants of manganese peroxidase. <b>1997</b> , 272, 17574-80	66
1368	Mutational analysis of vaccinia virus topoisomerase identifies residues involved in DNA binding. <b>1997</b> , 25, 3649-56	17
1367	The unusual species cross-reactivity of the leukemia inhibitory factor receptor alpha-chain is determined primarily by the immunoglobulin-like domain. <b>1997</b> , 272, 23976-85	36
1366	Binding of upstream stimulatory factor to an E-box in the 3 <b>M</b> lanking region stimulates alpha1(I) collagen gene transcription. <b>1997</b> , 272, 1753-60	40
1365	Activation of stress-activated protein kinases/c-Jun N-terminal protein kinases (SAPKs/JNKs) by a novel mitogen-activated protein kinase kinase. <b>1997</b> , 272, 32378-83	85
1364	The role of alpha- and epsilon-amino groups in the glycation-mediated cross-linking of gammaB-crystallin. Study of three site-directed mutants. <b>1997</b> , 272, 14465-9	13
1363	Subunit interactions of endothelial nitric-oxide synthase. Comparisons to the neuronal and inducible nitric-oxide synthase isoforms. <b>1997</b> , 272, 1276-82	107

1362	Cytoplasmic domain of E-selectin contains a non-tyrosine endocytosis signal. <b>1997</b> , 272, 24813-8	19
1361	Ferritin is a developmentally regulated nuclear protein of avian corneal epithelial cells. <b>1997</b> , 272, 12831-9	46
1360	Trimeresurus stejnegeri snake venom plasminogen activator. Site-directed mutagenesis and molecular modeling. <b>1997</b> , 272, 20531-7	49
1359	Influence of the NH2-terminal amino acid of the T cell receptor alpha chain on major histocompatibility complex (MHC) class II + peptide recognition. <b>1997</b> , 185, 1919-27	25
1358	The self-association and fibronectin-binding sites of fibulin-1 map to calcium-binding epidermal growth factor-like domains. <b>1997</b> , 272, 22600-6	48
1357	The wheat transcriptional activator SPA: a seed-specific bZIP protein that recognizes the GCN4-like motif in the bifactorial endosperm box of prolamin genes. <b>1997</b> , 9, 171-84	148
1356	Histidine 265 is important for covalent catalysis by vaccinia topoisomerase and is conserved in all eukaryotic type I enzymes. <b>1997</b> , 272, 3891-6	47
1355	Phosphorylation of protein kinase Cdelta (PKCdelta) at threonine 505 is not a prerequisite for enzymatic activity. Expression of rat PKCdelta and an alanine 505 mutant in bacteria in a functional form. <b>1997</b> , 272, 6805-11	90
1354	Mitogenic activation, phosphorylation, and nuclear translocation of protein kinase Bbeta. <b>1997</b> , 272, 30491-7	296
1353	Redox regulation of the DNA binding activity in transcription factor PEBP2. The roles of two conserved cysteine residues. <b>1997</b> , 272, 14497-500	118
1352	Combinatorial manipulation of three key active site residues in glycinamide ribonucleotide transformylase. <b>1997</b> , 10, 63-8	34
1351	Cooperative interactions of AP-1 and basic helix-loop-helix transcription factors regulate T1 gene expression. <b>1997</b> , 378, 657-67	2
1350	Effects of single-residue substitutions on negative cooperativity in ligand binding to dihydrofolate reductase. <b>1997</b> , 10, 815-26	2
1349	Telomerase RNA mutations in Saccharomyces cerevisiae alter telomerase action and reveal nonprocessivity in vivo and in vitro. <b>1997</b> , 11, 528-40	126
1348	Regulation of T cell receptor delta gene rearrangement by CBF/PEBP2. 1997, 185, 1193-201	34
1347	Functional domains in nuclear import factor p97 for binding the nuclear localization sequence receptor and the nuclear pore. <b>1997</b> , 8, 945-56	68
1346	Binding specificity and in vivo targets of the EH domain, a novel protein-protein interaction module. <b>1997</b> , 11, 2239-49	269
1345	Identification of a glycosaminoglycan-binding site in chemokine macrophage inflammatory protein-1alpha. <b>1997</b> , 272, 10103-9	96

1344	Utilization of recombinant adenovirus and dominant negative mutants to characterize hepatocyte nuclear factor 4-regulated apolipoprotein AI and CIII expression. <b>1997</b> , 272, 13892-8	26
1343	Characterization of the mitogen-activated protein kinase kinase 4 (MKK4)/c-Jun NH2-terminal kinase 1 and MKK3/p38 pathways regulated by MEK kinases 2 and 3. MEK kinase 3 activates MKK3 but does not cause activation of p38 kinase in vivo. <b>1997</b> , 272, 14489-96	93
1342	The localization of the phosphorylation site of BglG, the response regulator of the Escherichia coli bgl sensory system. <b>1997</b> , 272, 17263-8	30
1341	Histidine 225, a residue of the NhaA-Na+/H+ antiporter of Escherichia coli is exposed and faces the cell exterior. <b>1997</b> , 272, 1761-8	97
1340	Residues on both faces of the first immunoglobulin fold contribute to homophilic binding sites of PECAM-1/CD31. <b>1997</b> , 272, 20555-63	107
1339	Identification of common and distinct residues involved in the interaction of alphai2 and alphas with adenylyl cyclase. <b>1997</b> , 272, 20619-26	36
1338	Molecular cloning and characterization of a novel p38 mitogen-activated protein kinase. <b>1997</b> , 272, 23668-74	271
1337	Absence of glucocorticoid receptor-beta in mice. <b>1997</b> , 272, 26665-8	80
1336	Conformation of the 3Mend of beet necrotic yellow vein benevirus RNA 3 analysed by chemical and enzymatic probing and mutagenesis. <b>1997</b> , 25, 4723-9	11
1335	PPAR alpha structure-function relationships derived from species-specific differences in responsiveness to hypolipidemic agents. <b>1997</b> , 378, 651-5	80
1334	Elf-1 contributes to the function of the complex interleukin (IL)-2-responsive enhancer in the mouse IL-2 receptor alpha gene. <b>1997</b> , 185, 1211-21	36
1333	Cloning and characterization of the promoter region of a gene encoding a 67-kDa glycoprotein. <b>1997</b> , 272, 12692-8	13
1332	Interaction of heparin with human angiogenin. <b>1997</b> , 272, 9818-24	46
1331	Nuclear localization of NF-ATc by a calcineurin-dependent, cyclosporin-sensitive intramolecular interaction. <b>1997</b> , 11, 824-34	324
1330	Ligand binding pocket of the human somatostatin receptor 5: mutational analysis of the extracellular domains. <b>1997</b> , 52, 807-14	32
1329	Regulation of murine cytochrome oxidase Vb gene expression in different tissues and during myogenesis. Role of a YY-1 factor-binding negative enhancer. <b>1997</b> , 272, 5899-908	35
1328	The kinetic mechanism of serpin-proteinase complex formation. An intermediate between the michaelis complex and the inhibited complex. <b>1997</b> , 272, 5354-9	23
1327	The CCAAT box binding factor, NF-Y, is required for thyroid hormone regulation of rat liver S14 gene transcription. <b>1997</b> , 272, 27778-86	27

1326	Mapping the kidney potassium channel ROMK1. Glycosylation of the pore signature sequence and the COOH terminus. <b>1997</b> , 272, 25217-23	12
1325	Tetramerization and single-stranded DNA binding properties of native and mutated forms of murine mitochondrial single-stranded DNA-binding proteins. <b>1997</b> , 272, 8686-94	30
1324	A casein kinase I activity is constitutively associated with Nck. <b>1997</b> , 272, 2688-94	52
1323	Developmental regulation of VDJ recombination by the core fragment of the T cell receptor alpha enhancer. <b>1997</b> , 185, 131-40	43
1322	Human thyroid-stimulating hormone (hTSH) subunit gene fusion produces hTSH with increased stability and serum half-life and compensates for mutagenesis-induced defects in subunit association. <b>1997</b> , 272, 21312-6	42
1321	Visualization of mitochondrial protein import in cultured mammalian cells with green fluorescent protein and effects of overexpression of the human import receptor Tom20. <b>1997</b> , 272, 8459-65	65
1320	Organization and differential expression of the human monocyte chemoattractant protein 1 receptor gene. Evidence for the role of the carboxyl-terminal tail in receptor trafficking. <b>1997</b> , 272, 1038-45	98
1319	Effects of intracellular tyrosine residue mutation and carboxyl terminus truncation on signal transduction and internalization of the rat bradykinin B2 receptor. <b>1997</b> , 272, 14638-42	52
1318	Identification of residues of T4 RNase H required for catalysis and DNA binding. <b>1997</b> , 272, 28531-8	34
1317	Heme axial ligation by the highly conserved His residues in helix II of cytochrome b (NarI) of Escherichia coli nitrate reductase A. <b>1997</b> , 272, 25652-8	45
1316	Amino acid changes in a unique sequence of bacteriophage T7 DNA polymerase alter the processivity of nucleotide polymerization. <b>1997</b> , 272, 6599-606	22
1315	The amino-terminal domain of heat shock protein 90 (hsp90) that binds geldanamycin is an ATP/ADP switch domain that regulates hsp90 conformation. <b>1997</b> , 272, 23843-50	450
1314	Functions of FKBP12 and mitochondrial cyclophilin active site residues in vitro and in vivo in Saccharomyces cerevisiae. <b>1997</b> , 8, 2267-80	34
1313	Heparan sulfate proteoglycans participate in hepatic lipaseand apolipoprotein E-mediated binding and uptake of plasma lipoproteins, including high density lipoproteins. <b>1997</b> , 272, 31285-92	122
1312	Mutational analysis of 39 residues of vaccinia DNA topoisomerase identifies Lys-220, Arg-223, and Asn-228 as important for covalent catalysis. <b>1997</b> , 272, 8263-9	47
1311	Switching of DNA secondary structure in proenkephalin transcriptional regulation. <b>1997</b> , 272, 33145-52	26
1310	The inducibly expressed GTPase localizes to the endoplasmic reticulum, independently of GTP binding. <b>1997</b> , 272, 10639-45	73
1309	Molecular mechanism of polyamine stimulation of the synthesis of oligopeptide-binding protein. <b>1997</b> , 272, 4058-64	43

1308	The role of cysteine residues in the rearrangement of uridine to pseudouridine catalyzed by pseudouridine synthase I. <b>1997</b> , 272, 1950-5	12
1307	Mapping the ends of transmembrane segments in a polytopic membrane protein. Scanning N-glycosylation mutagenesis of extracytosolic loops in the anion exchanger, band 3. <b>1997</b> , 272, 18325-32	155
1306	Dentatorubral pallidoluysian atrophy (DRPLA) protein is cleaved by caspase-3 during apoptosis. <b>1997</b> , 272, 29238-42	62
1305	Identification of an element required for acetylcholine receptor-inducing activity (ARIA)-induced expression of the acetylcholine receptor epsilon subunit gene. <b>1997</b> , 272, 10367-71	20
1304	Amino acid substitutions that convert the protein substrate specificity of farnesyltransferase to that of geranylgeranyltransferase type I. <b>1997</b> , 272, 680-7	49
1303	Two modes of ligand binding in maltose-binding protein of Escherichia coli. Electron paramagnetic resonance study of ligand-induced global conformational changes by site-directed spin labeling. <b>1997</b> , 272, 17610-4	48
1302	Two eye guanylyl cyclases are expressed in the same photoreceptor cells and form homomers in preference to heteromers. <b>1997</b> , 272, 13738-42	101
1301	Different binding domains for Ran-GTP and Ran-GDP/RanBP1 on nuclear import factor p97. <b>1997</b> , 272, 6818-22	76
1300	Integration of Jak-Stat and AP-1 signaling pathways at the vasoactive intestinal peptide cytokine response element regulates ciliary neurotrophic factor-dependent transcription. <b>1997</b> , 272, 9648-54	51
1299	Coupling of cell division to cell growth by translational control of the G1 cyclin CLN3 in yeast. <b>1997</b> , 11, 2522-31	239
1298	Interaction of STAT5 dimers on two low affinity binding sites mediates interleukin 2 (IL-2) stimulation of IL-2 receptor alpha gene transcription. <b>1997</b> , 272, 31821-8	66
1297	Multiple sorting signals determine apical localization of a nonglycosylated integral membrane protein. <b>1997</b> , 272, 30748-52	32
1296	Identification of functional elements in the promoter region of the human gene for thymidylate synthase and nuclear factors that regulate the expression of the gene. <b>1997</b> , 272, 18375-81	27
1295	A rapid and efficient method for site-directed mutagenesis using one-step overlap extension PCR. <b>1997</b> , 25, 2227-8	164
1294	Basolateral sorting of the HIV type 2 and SIV envelope glycoproteins in polarized epithelial cells: role of the cytoplasmic domain. <b>1997</b> , 13, 665-75	18
1293	High degree of sensitivity of the simian immunodeficiency virus (SIVmac) envelope glycoprotein subunit association to amino acid changes in the glycoprotein 41 ectodomain. <b>1997</b> , 13, 441-7	10
1292	Human tyrosyl-tRNA synthetase shares amino acid sequence homology with a putative cytokine. <b>1997</b> , 272, 14420-5	106
1291	Augmented hydrolysis of diisopropyl fluorophosphate in engineered mutants of phosphotriesterase. <b>1997</b> , 272, 25596-601	51

1290	An adenosine deaminase (ADA) allele contains two newly identified deleterious mutations (Y97C and L106V) that interact to abolish enzyme activity. <b>1997</b> , 6, 2271-8	8
1289	Identification of a novel transcriptional regulatory element common to the p53 and interferon regulatory factor 1 genes. <b>1997</b> , 272, 29801-9	10
1288	Impact of natural IRS-1 mutations on insulin signals: mutations of IRS-1 in the PTB domain and near SH2 protein binding sites result in impaired function at different steps of IRS-1 signaling. <b>1997</b> , 46, 929-36	50
1287	Reduction of membrane protein hydrophobicity by site-directed mutagenesis: introduction of multiple polar residues in helix D of bacteriorhodopsin. <b>1997</b> , 10, 1061-6	13
1286	DNA strand transfer reactions catalyzed by vaccinia topoisomerase: hydrolysis and glycerololysis of the covalent protein-DNA intermediate. <b>1997</b> , 25, 2091-7	18
1285	Construction of a high-affinity receptor site for dihydropyridine agonists and antagonists by single amino acid substitutions in a non-L-type Ca2+ channel. <b>1997</b> , 94, 14906-11	81
1284	Localization and posttranslational modifications of otefin, a protein required for vesicle attachment to chromatin, during Drosophila melanogaster development. <b>1997</b> , 17, 4114-23	44
1283	Induction of apoptosis after expression of PYK2, a tyrosine kinase structurally related to focal adhesion kinase. <b>1997</b> , 139, 529-39	146
1282	Multiple regulatory domains on the Byr2 protein kinase. <b>1997</b> , 17, 5876-87	77
1281	Fal1p is an essential DEAD-box protein involved in 40S-ribosomal-subunit biogenesis in Saccharomyces cerevisiae. <b>1997</b> , 17, 7283-94	143
1280	Evidence for the involvement of mouse heat shock factor 1 in the atypical expression of the HSP70.1 heat shock gene during mouse zygotic genome activation. <b>1997</b> , 17, 778-88	59
1279	Genetic and biochemical analysis of Msh2p-Msh6p: role of ATP hydrolysis and Msh2p-Msh6p subunit interactions in mismatch base pair recognition. <b>1997</b> , 17, 2436-47	123
1278	Multiple control elements mediate activation of the murine and human interleukin 12 p40 promoters: evidence of functional synergy between C/EBP and Rel proteins. <b>1997</b> , 17, 4572-88	284
1277	Characterization of a serum response factor-like protein in Saccharomyces cerevisiae, Rlm1, which has transcriptional activity regulated by the Mpk1 (Slt2) mitogen-activated protein kinase pathway. <b>1997</b> , 17, 2615-23	160
1276	A structured retroviral RNA element that mediates nucleocytoplasmic export of intron-containing RNA. <b>1997</b> , 17, 135-44	141
1275	Requirement for transcription factor IIA (TFIIA)-TFIID recruitment by an activator depends on promoter structure and template competition. <b>1997</b> , 17, 6624-32	46
1274	The importance of a proper helical structure in the promoter-10 binding region to Bacillus subtilis sigma A structure and function. <b>1997</b> , 122, 911-7	1
1273	Bound Tris confounds the identification of binding site residues in a paraquat single chain antibody. <b>1997</b> , 122, 101-8	3

1272	The Wheat Transcriptional Activator SPA: A Seed-Specific bZIP Protein That Recognizes the GCN4-Like Motif in the Bifactorial Endosperm Box of Prolamin Genes. <b>1997</b> , 9, 171	33
1271	Heterologous expression and characterization of wild-type and mutant forms of a 26 kDa endochitinase from barley (Hordeum vulgare L.). <b>1997</b> , 322 ( Pt 3), 815-22	65
1270	A 13C-NMR study of the role of Asn-155 in stabilizing the oxyanion of a subtilisin tetrahedral adduct. <b>1997</b> , 326 ( Pt 3), 861-6	23
1269	Cysteine-200 of human inducible nitric oxide synthase is essential for dimerization of haem domains and for binding of haem, nitroarginine and tetrahydrobiopterin. <b>1997</b> , 323 ( Pt 1), 141-6	23
1268	Recombinant human O6-alkylguanine-DNA alkyltransferase (AGT), Cys145-alkylated AGT and Cys145> Met145 mutant AGT: comparison by isoelectric focusing, CD and time-resolved fluorescence spectroscopy. <b>1997</b> , 324 ( Pt 1), 321-8	7
1267	Methods for generating precise deletions and insertions in the genome of wild-type Escherichia coli: application to open reading frame characterization. <b>1997</b> , 179, 6228-37	753
1266	The role of the aspartate-arginine-tyrosine triad in the m1 muscarinic receptor: mutations of aspartate 122 and tyrosine 124 decrease receptor expression but do not abolish signaling. <b>1997</b> , 51, 234-41	79
1265	Sequential modification of serines 621 and 624 in the Raf-1 carboxyl terminus produces alterations in its electrophoretic mobility. <b>1997</b> , 272, 2136-42	22
1264	AP-1 transcriptional activity is regulated by a direct association between thioredoxin and Ref-1. <b>1997</b> , 94, 3633-8	705
1263	Molecular approaches to identifying ligand binding and signaling domains of C-C chemokine receptors. <b>1997</b> , 288, 70-84	1
1262	Redesign of soluble fatty acid desaturases from plants for altered substrate specificity and double bond position. <b>1997</b> , 94, 4872-7	149
1261	Cysteine-scanning mutagenesis of helix IV and the adjoining loops in the lactose permease of Escherichia coli: Glu126 and Arg144 are essential. off. <b>1997</b> , 36, 14284-90	90
1260	Perturbations to the active site of phosphotriesterase. <b>1997</b> , 36, 1982-8	57
1259	Ligand-induced movement of helix X in the lactose permease from Escherichia coli: a fluorescence quenching study. <b>1997</b> , 36, 14120-7	16
1258	Participation of the N-terminal region of Cepsilon3 in the binding of human IgE to its high-affinity receptor FcepsilonRI. <b>1997</b> , 36, 15568-78	64
1257	Mutational analysis of 26 residues of vaccinia DNA topoisomerase identifies Ser-204 as important for DNA binding and cleavage. <b>1997</b> , 36, 7944-50	10
1256	Conformation of the N-terminal segment of a monocysteine mutant of troponin I from cardiac muscle. <b>1997</b> , 36, 6745-53	47
1255	Cis-autophosphorylation of juxtamembrane tyrosines in the insulin receptor kinase domain. <b>1997</b> , 36, 7681-9	29

1254	Aspartate-407 in Rhodobacter sphaeroides cytochrome c oxidase is not required for proton pumping or manganese binding. <b>1997</b> , 36, 2539-43	37
1253	Formyl phosphate: a proposed intermediate in the reaction catalyzed by Escherichia coli PurT GAR transformylase. <b>1997</b> , 36, 6709-16	28
1252	Identification of contact residues in the IgE binding site of human FcepsilonRIalpha. <b>1997</b> , 36, 15579-88	60
1251	Evidence of a conformational change in the human cytomegalovirus protease upon binding of peptidyl-activated carbonyl inhibitors. <b>1997</b> , 36, 12644-52	38
1250	Kinetic and structural effects of mutations of the catalytic amino-terminal proline in 4-oxalocrotonate tautomerase. <b>1997</b> , 36, 14551-60	46
1249	Arginine 302 (helix IX) in the lactose permease of Escherichia coli is in close proximity to glutamate 269 (helix VIII) as well as glutamate 325. <b>1997</b> , 36, 13682-7	23
1248	Calmodulin binds to caldesmon in an antiparallel manner. <b>1997</b> , 36, 15026-34	19
1247	The last two cytoplasmic loops in the lactose permease of Escherichia coli comprise a discontinuous epitope for a monoclonal antibody. <b>1997</b> , 36, 274-80	31
1246	Threonine-89 participates in the active site of bacteriorhodopsin: evidence for a role in color regulation and Schiff base proton transfer. <b>1997</b> , 36, 7490-7	16
1245	Site-directed mutations at phenylalanine-190 of manganese peroxidase: effects on stability, function, and coordination. <b>1997</b> , 36, 4268-77	35
1244	Troponin T and Ca2+ dependence of the distance between Cys48 and Cys133 of troponin I in the ternary troponin complex and reconstituted thin filaments. <b>1997</b> , 36, 11027-35	30
1243	Leucine is the most stabilizing aliphatic amino acid in the d position of a dimeric leucine zipper coiled coil. <b>1997</b> , 36, 12567-73	128
1242	The P4-P6 domain directs higher order folding of the Tetrahymena ribozyme core. <b>1997</b> , 36, 3159-69	68
1241	Evidence for a glutathionyl-enzyme intermediate in the amidase activity of the bifunctional glutathionylspermidine synthetase/amidase from Escherichia coli. <b>1997</b> , 36, 14930-8	28
1240	Mutational analysis of potential zinc-binding residues in the active site of the enterococcal D-Ala-D-Ala dipeptidase VanX. <b>1997</b> , 36, 10498-505	94
1239	Cytoplasmic domains mediate the ligand-induced affinity shift of guanylyl cyclase C. <b>1997</b> , 36, 12921-9	28
1238	Probing the non-proline cis peptide bond in beta-lactamase from Staphylococcus aureus PC1 by the replacement Asn136> Ala. <b>1997</b> , 36, 10857-66	8
1237	The mannose-binding protein A region of glutamic acid185-alanine221 can functionally replace the surfactant protein A region of glutamic acid195-phenylalanine228 without loss of interaction with lipids and alveolar type II cells. <b>1997</b> , 36, 7176-84	19

1236	Evidence supporting a role for histidine-235 in cation binding to human 3-hydroxy-3-methyglutaryl-CoA lyase. <b>1997</b> , 36, 7594-600		8
1235	Detection of tetramerization domains in vivo by cooperative DNA binding to tandem lambda operator sites. <i>Gene</i> , <b>1997</b> , 185, 245-9	3.8	19
1234	Active site of dihydroorotate dehydrogenase A from Lactococcus lactis investigated by chemical modification and mutagenesis. <b>1997</b> , 36, 16197-205		87
1233	Alanine scanning mutagenesis of insulin. <b>1997</b> , 272, 12978-83		169
1232	Evidence for phospholipid microdomain formation in liquid crystalline liposomes reconstituted with Escherichia coli lactose permease. <b>1997</b> , 72, 1247-57		60
1231	Trichoderma reesei cellobiohydrolase I with an endoglucanase cellulose-binding domain: action on bacterial microcrystalline cellulose. <b>1997</b> , 57, 49-57		58
1230	Surface residue mutations which change the substrate specificity of Thermomonospora fusca endoglucanase E2. <b>1997</b> , 57, 101-13		47
1229	Secretion of biologically active superantigens by mammalian cells. 1997, 6, 41-51		3
1228	Tumor necrosis factor alpha-induced activation of c-jun N-terminal kinase is mediated by TRAF2. <b>1997</b> , 16, 1080-92		230
1227	Site-specific mutagenesis of human pancreatic lipase. <b>1997</b> , 284, 157-70		2
1226	Function of conserved tryptophans in the Aspergillus niger glucoamylase 1 starch binding domain. <b>1997</b> , 36, 7535-9		61
1225	DNA solution of the maximal clique problem. <b>1997</b> , 278, 446-9		414
1224	The monovalent cation requirement of rabbit muscle pyruvate kinase is eliminated by substitution of lysine for glutamate 117. <b>1997</b> , 348, 262-7		57
1223	Effect of acetaldehyde on Sp1 binding and activation of the mouse alpha 2(I) collagen promoter. <b>1997</b> , 341, 140-52		20
1222	An optimized protocol for mRNA quantification using nested competitive RT-PCR. <b>1997</b> , 231, 813-7		22
1221	Identification of a domain of lecithin-cholesterol acyltransferase that is involved in interfacial recognition. <b>1997</b> , 232, 783-7		36
1220	Xenopus FK 506-binding protein homolog induces a secondary axis in frog embryos, which is inhibited by coexisting BMP 4 signaling. <b>1997</b> , 239, 585-91		27
1219	Genomic organization, chromosomal localization, and expression of the murine thromboxane synthase gene. <b>1997</b> , 45, 519-28		21

1218	ovalbumin/PAI-2 fusion proteins. <b>1997</b> , 267, 561-9	21
1217	Transphosphorylation of the TorR response regulator requires the three phosphorylation sites of the TorS unorthodox sensor in Escherichia coli. <b>1997</b> , 267, 770-7	65
1216	The antiterminator RNA of phage HK022. <b>1997</b> , 272, 677-87	22
1215	Bacterial expression of anti-DNA antibody domains. <b>1997</b> , 11, 12-9	10
1214	Site alpha is crucial for two routes of IFN gamma-induced MHC class I transactivation: the ISRE-mediated route and a novel pathway involving CIITA. <b>1997</b> , 6, 601-11	184
1213	Voltage-dependent proton transport by the voltage sensor of the Shaker K+ channel. <b>1997</b> , 19, 1319-27	202
1212	The in vivo and in vitro characterisation of an engineered human antibody to E-selectin. 1997, 3, 107-16	10
1211	Kinase suppressor of Ras is ceramide-activated protein kinase. <b>1997</b> , 89, 63-72	410
<b>121</b> 0	Identification of Asp804 and Asp808 as Na+ and K+ coordinating residues in alpha-subunit of renal Na,K-ATPase. <b>1997</b> , 400, 206-10	51
1209	Mutagenesis of firefly luciferase shows that cysteine residues are not required for bioluminescence activity. <b>1997</b> , 404, 115-7	17
1208	Analysis of the contribution of the hinge region of human neutrophil collagenase (HNC, MMP-8) to stability and collagenolytic activity by alanine scanning mutagenesis. <b>1997</b> , 405, 60-4	46
1207	Functional interference between contacting amino acids of homeodomains. 1997, 407, 320-4	15
1206	Receptor-mediated modulation of recombinant neuronal class E calcium channels. 1997, 408, 261-70	42
1205	An inactive mutant of the alpha subunit of protein kinase CK2 that traps the regulatory CK2beta subunit. <b>1997</b> , 410, 391-6	26
1204	Missense mutations affecting a conserved cysteine pair in the TH domain of Btk. <b>1997</b> , 413, 205-10	28
1203	Arabidopsis thaliana class IV chitinase is early induced during the interaction with Xanthomonas campestris. <b>1997</b> , 419, 69-75	54
1202	Integration of visna virus DNA occurs and may be necessary for productive infection. <b>1997</b> , 237, 189-97	9
1201	Identification and characterization of the murine Rag1 promoter. <b>1997</b> , 34, 939-54	48

1200	Immune tolerance mediated by recombinant proteolipid protein prevents experimental autoimmune encephalomyelitis. <b>1997</b> , 79, 1-11	10
1199	Mutational analysis of the angiotensin II type 2 receptor: contribution of conserved extracellular amino acids. <b>1997</b> , 72, 97-103	19
1198	Mutation of a conserved fifth transmembrane domain lysine residue (Lys215) attenuates ligand binding in the angiotensin II type 2 receptor. <b>1997</b> , 51, 238-41	10
1197	A nucleotide substitution in the promoter of human angiotensinogen is associated with essential hypertension and affects basal transcription in vitro. <b>1997</b> , 99, 1786-97	416
1196	Site-specific mutagenesis of immunoglobulin domains by multiple-fragment homologous recombination. <b>1997</b> , 23, 830-4	2
1195	A novel subunit for shal K+ channels radically alters activation and inactivation. <b>1997</b> , 17, 32-44	68
1194	Expression of hepatocyte nuclear factor 6 in rat liver is sex-dependent and regulated by growth hormone. <b>1997</b> , 94, 12309-13	93
1193	Genetic redundancy between SPT23 and MGA2: regulators of Ty-induced mutations and Ty1 transcription in Saccharomyces cerevisiae. <b>1997</b> , 17, 4718-29	32
1192	Frequency-dependent inactivation of mammalian A-type K+ channel KV1.4 regulated by Ca2+/calmodulin-dependent protein kinase. <b>1997</b> , 17, 3379-91	135
1191	Homodimerization of the human interleukin 4 receptor alpha chain induces Cepsilon germline transcripts in B cells in the absence of the interleukin 2 receptor gamma chain. <b>1997</b> , 94, 5866-71	42
1190	Quantification of Nucleic Acids. <b>1997</b> , 17, 1-19	11
1189	Complementation of sporulation and motility defects in a prokaryote by a eukaryotic GTPase. <b>1997</b> , 94, 9881-6	60
1188	Characterization of DNA binding sites for the BvgA protein of Bordetella pertussis. <b>1997</b> , 179, 3790-2	25
1187	The polymerization pocket "a" within the carboxyl-terminal region of the gamma chain of human fibrinogen is adjacent to but independent from the calcium-binding site. <b>1997</b> , 272, 23792-8	38
1186	Oct-1 and CCAAT/Enhancer-binding Protein (C/EBP) Bind to Overlapping Elements within the Interleukin-8 Promoter. <b>1997</b> , 272, 2396-2403	173
1185	Pleckstrin associates with plasma membranes and induces the formation of membrane projections: requirements for phosphorylation and the NH2-terminal PH domain. <b>1997</b> , 136, 1071-9	66
1184	A conserved cytoplasmic region of ROMK modulates pH sensitivity, conductance, and gating. <b>1997</b> , 273, F516-29	75
1183	Production and characterization of recombinant human plasminogen(S741C-fluorescein). A novel approach to study zymogen activation without generation of active protease. <b>1997</b> , 272, 2176-82	28

1182	voltage-dependent ion channels with seven N-terminal transmembrane segments (S0-S6), an extracellular N terminus, and an intracellular (S9-S10) C terminus. <b>1997</b> , 94, 14066-71	274
1181	Simultaneous introduction of multiple mutations using overlap extension PCR. <b>1997</b> , 22, 28-30	83
1180	Production of PCR mimics for any semiquantitative PCR application. <b>1997</b> , 22, 1060-2	11
1179	Molecular determinants of inactivation and G protein modulation in the intracellular loop connecting domains I and II of the calcium channel alpha1A subunit. <b>1997</b> , 94, 1512-6	184
1178	Low fidelity mutants in the O-helix of Thermus aquaticus DNA polymerase I. <b>1997</b> , 272, 11228-35	60
1177	In vitro scanning saturation mutagenesis of an antibody binding pocket. <b>1997</b> , 94, 412-7	74
1176	Proper sorting of the cation-dependent mannose 6-phosphate receptor in endosomes depends on a pair of aromatic amino acids in its cytoplasmic tail. <b>1997</b> , 94, 14471-6	69
1175	Interactions of HLA-B*4801 with peptide and CD8. <b>1997</b> , 50, 258-64	25
1174	Leukaemia inhibitory factor is retrogradely transported by a distinct population of adult rat sensory neurons: co-localization with trkA and other neurochemical markers. <b>1997</b> , 9, 1244-51	50
1173	Cloning and mutagenesis of the p110 alpha subunit of human phosphoinositide 3Mhydroxykinase. <b>1997</b> , 5, 65-74	5
1172	In vivo regulation of single copy and amplified N-myc in human neuroblastoma cells. <b>1997</b> , 15, 303-15	29
1171	Oligosaccharide substrate binding in Escherichia coli maltodextrin phosphorylase. <b>1997</b> , 4, 405-12	57
1170	Three-dimensional structure of the Ras-interacting domain of RalGDS. 1997, 4, 609-15	70
1169	Structure of the collagen-binding domain from a Staphylococcus aureus adhesin. <b>1997</b> , 4, 833-8	122
1168	Structure of Haemophilus influenzae Fe(+3)-binding protein reveals convergent evolution within a superfamily. <b>1997</b> , 4, 919-24	162
1167	Association of simian immunodeficiency virus Nef with cellular serine/threonine kinases is dispensable for the development of AIDS in rhesus macaques. <b>1997</b> , 3, 860-5	81
1166	Neurodegeneration in Lurcher mice caused by mutation in delta2 glutamate receptor gene. <b>1997</b> , 388, 769-73	479
1165	A second endogenous cannabinoid that modulates long-term potentiation. <b>1997</b> , 388, 773-8	1217

1164	Design and production of novel tetravalent bispecific antibodies. <b>1997</b> , 15, 159-63	171
1163	Primary structure and origin of a predator released protein that induces defensive morphological changes in Euplotes. <b>1997</b> , 33, 389-395	17
1162	Rapid targeting of nuclear proteins to the cytoplasm. <b>1997</b> , 7, 638-44	97
1161	A fast and simple method to introduce multiple distant point mutations. <b>1997</b> , 2, 24-26	5
1160	A modification of the Kunkel method for preparation of single-stranded DNA with helper phage M13 KO7. <b>1997</b> , 2, 50-52	О
1159	One-tube, two-stage PCR-directed in vitro mutagenesis using megaprimers. <b>1997</b> , 2, 121-123	4
1158	Generation of inhibitory mutants of hepatocyte nuclear factor 4. <b>1997</b> , 244, 883-9	6
1157	Functional characterization of the N-glycosylation sites of human acid sphingomyelinase by site-directed mutagenesis. <b>1997</b> , 243, 511-7	45
1156	The role of His113 and His114 in pyruvate decarboxylase from Zymomonas mobilis. <b>1997</b> , 248, 63-71	39
1155	The replacement of Lys620 by serine desensitizes Escherichia coli phosphoenolpyruvate carboxylase to the effects of the feedback inhibitors L-aspartate and L-malate. <b>1997</b> , 247, 74-81	18
1154	Reactivity of the tyrosyl radical of Escherichia coli ribonucleotide reductase control by the protein. <b>1997</b> , 249, 401-7	15
1153	High-level secretion of two antibody single chain Fv fragments by Pichia pastoris. <b>1997</b> , 201, 67-75	79
1152	Expression of the alpha 1, alpha 2 and alpha 3 isoforms of the GABAA receptor in human alcoholic brain. <b>1997</b> , 751, 102-12	65
1151	Stable expression and characterization of the human brain potassium channel Kv2.1: blockade by antipsychotic agents. <b>1997</b> , 761, 42-50	13
1150	Phage-displayed and soluble mouse scFv fragments neutralize rabies virus. <b>1997</b> , 67, 221-33	35
1149	Cloning, sequencing, expression and characterization of three anti-estradiol-17beta Fab fragments. <b>1997</b> , 1351, 192-202	8
1148	Functional interaction between amino-acid residues 242 and 290 in cytochromes P-450 2B1 and 2B11. <b>1997</b> , 1338, 259-66	27
1147	Changes in rat melanin-concentrating hormone and dynorphin messenger ribonucleic acids induced by food deprivation. <b>1997</b> , 31, 237-42	48

1146	Characterization of a soluble IL-6 receptor alpha mutant C277D/H280I expressed in E.coli. <b>1997</b> , 41, 1101-8	1
1145	Cell differentiation by interaction of two HMG-box proteins: Mat1-Mc activates M cell-specific genes in S.pombe by recruiting the ubiquitous transcription factor Ste11 to weak binding sites. <b>1997</b> , 16, 4021-33	52
1144	p45 NF-E2 regulates expression of thromboxane synthase in megakaryocytes. <b>1997</b> , 16, 5654-61	71
1143	Carboxy-terminal domain mediates assembly of the voltage-gated rat ether-^-go-go potassium channel. <b>1997</b> , 16, 6337-45	58
1142	Phosphorylation of activation functions AF-1 and AF-2 of RAR alpha and RAR gamma is indispensable for differentiation of F9 cells upon retinoic acid and cAMP treatment. <b>1997</b> , 16, 6452-65	97
1141	Signal peptide fragments of preprolactin and HIV-1 p-gp160 interact with calmodulin. <b>1997</b> , 16, 6636-45	115
1140	Yeast pseudohyphal growth is regulated by GPA2, a G protein alpha homolog. <b>1997</b> , 16, 7008-18	248
1139	Amino terminal-dependent gating of the potassium channel rat eag is compensated by a mutation in the S4 segment. <b>1997</b> , 502 ( Pt 3), 537-43	77
1138	Mouse mammary tumor virus superantigens require N-linked glycosylation for effective presentation to T cells. <b>1997</b> , 228, 161-70	9
1137	Identification and purification of cellular proteins that specifically interact with the RNA constitutive transport elements from retrovirus D. <b>1997</b> , 228, 333-9	26
1136	Effects of mutations in the beet western yellows virus readthrough protein on its expression and packaging and on virus accumulation, symptoms, and aphid transmission. <b>1997</b> , 230, 323-34	101
1135	Upstream stimulatory factor family binds to the herpes simplex virus type 1 latency-associated transcript promoter. <b>1997</b> , 230, 381-91	11
1134	Phosphorylation of both phosphoacceptor sites in the HIV-1 Vpu cytoplasmic domain is essential for Vpu-mediated ER degradation of CD4. <b>1997</b> , 232, 207-16	69
1133	The N-terminal portion of the 216-kDa polyprotein of Commelina yellow mottle badnavirus is required for virus movement but not for replication. <b>1997</b> , 232, 359-68	13
1132	Chimeric papillomavirus-like particles. <b>1997</b> , 234, 93-111	163
1131	Membrane permeability changes induced in Escherichia coli by the SH protein of human respiratory syncytial virus. <b>1997</b> , 235, 342-51	60
1130	Mason-Pfizer monkey virus (MPMV) constitutive transport element (CTE) functions in a position-dependent manner. <b>1997</b> , 236, 118-29	32
1129	Formation of circular satellite tobacco ringspot virus RNA in protoplasts transiently expressing the linear RNA. <b>1997</b> , 239, 413-25	12

1128	Enhanced expression in tobacco of the gene encoding green fluorescent protein by modification of its codon usage. <b>1997</b> , 33, 989-99	94
1127	Phosphoenolpyruvate carboxylase of Thermus sp.: role of a divergent glycine-rich region. <b>1997</b> , 19, 335-340	2
1126	Rapid and economical multiple base site-directed mutagenesis of double stranded plasmid DNA. <b>1997</b> , 11, 367-370	
1125	Two newly identified mutations (Thr233Ile and Leu152Met) in partially adenosine deaminase-deficient (ADA-) individuals that result in differing biochemical and metabolic phenotypes. <b>1997</b> , 100, 22-9	10
1124	The yeast FET5 gene encodes a FET3-related multicopper oxidase implicated in iron transport. <b>1997</b> , 256, 547-56	38
1123	Comparison of the water transporting properties of MIP and AQP1. <b>1997</b> , 159, 29-39	161
1122	Changes in hydrolysis specificities of lipase from Rhizomucor miehei to polyunsaturated fatty acyl ethyl esters in different aggregation states. <b>1997</b> , 74, 1395-1399	7
1121	The role of helix VIII in the lactose permease of Escherichia coli: I. Cys-scanning mutagenesis. <b>1997</b> , 6, 431-7	26
1120	A 3D model for the measles virus receptor CD46 based on homology modeling, Monte Carlo simulations, and hemagglutinin binding studies. <b>1997</b> , 6, 588-97	22
1119	Design, synthesis, expression, and characterization of the genes for mouse Fc gamma RIIb1 and Fc gamma RIIb2 cytoplasmic regions. <b>1997</b> , 6, 1038-46	2
1118	Design of a leucine zipper coiled coil stabilized 1.4 kcal mol-1 by phosphorylation of a serine in the e position. <b>1997</b> , 6, 1273-83	43
1117	Binding of monoclonal antibody 4B1 to homologs of the lactose permease of Escherichia coli. <b>1997</b> , 6, 1503-10	16
1116	Analysis of the promoter of human bilirubin UDP-glucuronosyltransferase gene (UGT1*1) in relevance to GilbertMsyndrome. <b>1997</b> , 9, 152-163	18
1115	The N-terminal domain of colicin E3 interacts with TolB which is involved in the colicin translocation step. <b>1997</b> , 23, 909-20	54
1114	Modulator protein RsbR regulates environmental signalling in the general stress pathway of Bacillus subtilis. <b>1997</b> , 24, 567-78	89
1113	Transcriptional regulation of the macrophage-induced gene (gspA) of Legionella pneumophila and phenotypic characterization of a null mutant. <b>1997</b> , 24, 629-42	79
1112	NFE, a new transcriptional activator that facilitates p50 and c-Rel-dependent IgH 3Menhancer activity. <b>1997</b> , 27, 468-75	14
1111	A murine transmembrane tumor necrosis factor (TNF) transgene induces arthritis by cooperative p55/p75 TNF receptor signaling. <b>1997</b> , 27, 2588-92	118

1110	Molecular mechanisms regulating induction of interleukin-6 gene transcription by interferon-gamma. <b>1997</b> , 27, 3022-30	52
1109	A combinatorial library for the binuclear metal center of bacterial phosphotriesterase. <b>1997</b> , 29, 553-61	13
1108	Developmental regulation of osteocalcin expression in MC3T3-E1 osteoblasts: Minimal role of the proximal E-box cis-acting promoter elements. <b>1997</b> , 65, 11-24	17
1107	A one-step DGGE scanning method for detection of mutations in the K-, N-, and H-ras oncogenes: mutations at codons 12, 13 and 61 are rare in B-cell non-HodgkinMlymphoma. <b>1997</b> , 71, 364-9	24
1106	Approaches to DNA mutagenesis: an overview. <b>1997</b> , 254, 157-78	191
1105	Parallel overlap assembly for the construction of computational DNA libraries. <b>1997</b> , 188, 333-41	26
1104	Use of proteomics and PCR to elucidate changes in protein expression in oral streptococci. <b>1998</b> , 20, 165-179	1
1103	A modified overlap extension PCR method to create chimeric genes in the absence of restriction enzymes. <b>1998</b> , 12, 653-657	94
1102	Binding of the winged-helix transcription factor HNF3 to a linker histone site on the nucleosome. <b>1998</b> , 17, 244-54	280
1101	Response regulator output in bacterial chemotaxis. <b>1998</b> , 17, 4238-48	182
1100	All-trans retinol, vitamin D and other hydrophobic compounds bind in the axial pore of the five-stranded coiled-coil domain of cartilage oligomeric matrix protein. <b>1998</b> , 17, 5265-72	61
1099	Dob1p (Mtr4p) is a putative ATP-dependent RNA helicase required for the 3Mend formation of 5.8S rRNA in Saccharomyces cerevisiae. <b>1998</b> , 17, 1128-40	259
1098	The Ssn6-Tup1 repressor complex of Saccharomyces cerevisiae is involved in the osmotic induction of HOG-dependent and -independent genes. <b>1998</b> , 17, 2543-53	57
1097	Characterization of the functional domains of boar acrosin involved in nonenzymatic binding to homologous zona pellucida glycoproteins. <b>1998</b> , 49, 426-34	21
1096	Critical point mutations for hepatitis C virus NS3 proteinase. <b>1998</b> , 246, 104-12	12
1095	Herpes simplex virus type 1 VP26 is not essential for replication in cell culture but influences production of infectious virus in the nervous system of infected mice. <b>1998</b> , 247, 115-24	108
1094	Identification of genes involved in replication and movement of peanut clump virus. 1998, 248, 312-22	53
1093	Mushroom bacilliform virus RNA: the initiation of translation at the 5Mend of the genome and identification of the VPg. <b>1998</b> , 249, 231-7	14

1092	Structural and functional analysis of the membrane-spanning domain of the human immunodeficiency virus type 1 Vpu protein. <b>1998</b> , 251, 96-107	57
1091	NIP domain prevents N-type inactivation in voltage-gated potassium channels. <b>1998</b> , 391, 390-3	59
1090	Formation of nitric oxide-derived inflammatory oxidants by myeloperoxidase in neutrophils. <b>1998</b> , 391, 393-7	1329
1089	Changes in side chain packing during apomyoglobin folding characterized by pulsed thiol-disulfide exchange. <b>1998</b> , 5, 730-7	39
1088	Decoupling of nucleotide- and microtubule-binding sites in a kinesin mutant. <b>1998</b> , 396, 587-90	54
1087	Identification of the receptor component of the IkappaBalpha-ubiquitin ligase. <b>1998</b> , 396, 590-4	591
1086	The Na+-phosphate cotransport system (NaPi-II) with a cleaved protein backbone: implications on function and membrane insertion. <b>1998</b> , 508 ( Pt 2), 341-50	27
1085	A defect in skeletal muscle sodium channel deactivation exacerbates hyperexcitability in human paramyotonia congenita. <b>1998</b> , 506 ( Pt 3), 627-38	55
1084	Identification of cdk2 binding sites on the p27Kip1 cyclin-dependent kinase inhibitor. <b>1998</b> , 16, 755-62	11
1083	BAP1: a novel ubiquitin hydrolase which binds to the BRCA1 RING finger and enhances BRCA1-mediated cell growth suppression. <b>1998</b> , 16, 1097-112	545
1082	The chromo and SET domains of the Clr4 protein are essential for silencing in fission yeast. <b>1998</b> , 19, 192-5	143
1081	Improving the catalytic activity of phenylalanine aminotransferase of Escherichia coli by site-specific mutation. <b>1998</b> , 864, 561-4	5
1080	Inhibition of myo-inositol monophosphatase isoforms by aromatic phosphonates. <b>1998</b> , 6, 1865-74	37
1079	The transmembrane domain enhances granular targeting of P-selectin. <b>1998</b> , 75, 331-43	20
1078	Dead attack for all an experts 6 activities to real to the fact of the all 4000 42 472 02	6
,	Production of rat salivary cystatin S variant polypeptides in Escherichia coli. <b>1998</b> , 43, 173-82	U
1077	Contribution of proximal promoter elements to the regulation of basal and differential glutathione S-transferase P1 gene expression in human breast cancer cells. <b>1998</b> , 1396, 179-90	8
1077	Contribution of proximal promoter elements to the regulation of basal and differential glutathione	

1074	Site-directed mutagenesis of surfactant protein A reveals dissociation of lipid aggregation and lipid uptake by alveolar type II cells. <b>1998</b> , 1387, 433-46	14
1073	PCR-directed in vitro mutagenesis using a NemporaryMestriction site. 1998, 3, 51-53	1
1072	Expression of genes encoding the E2 and E3 components of the Bacillus stearothermophilus pyruvate dehydrogenase complex and the stoichiometry of subunit interaction in assembly in vitro. <b>1998</b> , 258, 491-501	40
1071	DNA sequences obtained from filamentous bacteriophage virions by direct cycle sequencing. <b>1998</b> , 256, 140-2	1
1070	Site-directed mutagenesis by combined chain reaction. <b>1998</b> , 256, 137-40	52
1069	Generation of multiple site-specific mutations in a single polymerase chain reaction product. <b>1998</b> , 264, 288-91	12
1068	Role of folate receptor and reduced folate carrier in the transport of 5-methyltetrahydrofolic acid in human ovarian carcinoma cells. <b>1998</b> , 75, 125-33	53
1067	Exons - introns = lexons: in-frame concatenation of exons by PCR. <b>1998</b> , 12, 122-7	7
1066	v-src activation of the collagenase-1 (matrix metalloproteinase-1) promoter through PEA3 and STAT: Requirement of extracellular signal-regulated kinases and inhibition by retinoic acid receptors. <b>1998</b> , 21, 194-204	28
1065	Enhanced transgenic plant resistance to nematodes by dual proteinase inhibitor constructs. <b>1998</b> , 204, 472-9	133
1064	Evaluation of the tumorigenic and angiogenic potential of human fibroblast growth factor FGF3 in nude mice. <b>1998</b> , 124, 259-64	9
1063	Characterizations of natural and induced polyhedrin gene mutants of Bombyx mori cytoplasmic polyhedrosis viruses. <b>1998</b> , 143, 241-8	14
1062	Characterization and comparative pharmacological studies of a functional gamma-aminobutyric acid (GABA) receptor cloned from the tobacco budworm, Heliothis virescens (Noctuidae:Lepidoptera). <b>1998</b> , 3, 305-15	36
1061	Homologs of the vancomycin resistance D-Ala-D-Ala dipeptidase VanX in Streptomyces toyocaensis, Escherichia coli and Synechocystis: attributes of catalytic efficiency, stereoselectivity and regulation with implications for function. <b>1998</b> , 5, 489-504	59
1060	The high-potential flavin and heme of nitric oxide synthase are not magnetically linked: implications for electron transfer. <b>1998</b> , 5, 355-64	18
1059	Active-site mutants of the VanC2 D-alanyl-D-serine ligase, characteristic of one vancomycin-resistant bacterial phenotype, revert towards wild-type D-alanyl-D-alanine ligases. <b>1998</b> , 5, 197-207	20
1058	Prime region subsite specificity characterization of human cathepsin D: the dominant role of position 128. <b>1998</b> , 7, 88-95	11
1057	Uclacyanins, stellacyanins, and plantacyanins are distinct subfamilies of phytocyanins: plant-specific mononuclear blue copper proteins. <b>1998</b> , 7, 1915-29	139

1056	Delineation of an evolutionary salvage pathway by compensatory mutations of a defective lysozyme. <b>1998</b> , 7, 2200-9		5
1055	Structural diversity of the voltage-dependent Ca2+ channel alpha1E-subunit. <b>1998</b> , 10, 916-25		39
1054	Expression of a dominant negative form of cpSRP54 inhibits chloroplast biogenesis in Arabidopsis. <b>1998</b> , 13, 177-86		62
1053	The alpha and eta isoforms of protein kinase C stimulate transcription of human involucrin gene. <b>1998</b> , 110, 218-23		25
1052	Sendai virus C proteins are categorically nonessential gene products but silencing their expression severely impairs viral replication and pathogenesis. <b>1998</b> , 3, 111-24		108
1051	The secretion apparatus of Pseudomonas aeruginosa: identification of a fifth pseudopilin, XcpX (GspK family). <b>1998</b> , 27, 31-40		79
1050	Distinct regions of the colicin A translocation domain are involved in the interaction with TolA and TolB proteins upon import into Escherichia coli. <b>1998</b> , 27, 143-57		71
1049	MvaL1 autoregulates the synthesis of the three ribosomal proteins encoded on the MvaL1 operon of the archaeon Methanococcus vannielii by inhibiting its own translation before or at the formation of the first peptide bond. <b>1998</b> , 27, 455-68		23
1048	Consequences of the loss of O-linked glycosylation of meningococcal type IV pilin on piliation and pilus-mediated adhesion. <b>1998</b> , 27, 705-15		112
1047	Tn4451 from Clostridium perfringens is a mobilizable transposon that encodes the functional Mob protein, TnpZ. <b>1998</b> , 27, 631-42		26
1046	Listeriolysin O: cholesterol inhibits cytolysis but not binding to cellular membranes. <b>1998</b> , 28, 1081-9		104
1045	Serine kinase activity of a Bacillus subtilis switch protein is required to transduce environmental stress signals but not to activate its target PP2C phosphatase. <b>1998</b> , 30, 189-96		54
1044	Different residues in periplasmic domains of the CcmC inner membrane protein of Pseudomonas fluorescens ATCC 17400 are critical for cytochrome c biogenesis and pyoverdine-mediated iron uptake. <b>1998</b> , 30, 547-55		29
1043	Decorin-binding adhesins from Borrelia burgdorferi. <b>1998</b> , 30, 711-23		215
1042	Molecular basis of hereditary methaemoglobinaemia, types I and II: two novel mutations in the NADH-cytochrome b5 reductase gene. <b>1998</b> , 103, 922-30		31
1041	Activation of rat androgen receptor by androgenic ligands is unaffected by antiandrogens in Saccharomyces cerevisiae. <i>Gene</i> , <b>1998</b> , 209, 247-54	3.8	7
1040	Sequence analysis and heterologous expression of the groE genes from Thermoanaerobacter sp. Rt8.G4. <i>Gene</i> , <b>1998</b> , 217, 15-23	3.8	3
1039	Conserved structural features between HLA-DO beta and -DR beta. <b>1998</b> , 35, 885-93		6

1038	Mutational analysis of the angiotensin type 2 receptor: contribution of conserved amino acids in the region of the sixth transmembrane domain. <b>1998</b> , 74, 113-9	7
1037	Identification of two alpha-subunit species of GTP-binding proteins, Galpha15 and Galphaq, expressed in rat taste buds. <b>1998</b> , 1403, 265-72	39
1036	Mutations affecting ligand specificity of the G-protein-coupled receptor for the Saccharomyces cerevisiae tridecapeptide pheromone. <b>1998</b> , 1448, 12-26	21
1035	Mutation of alpha B-crystallin: effects on chaperone-like activity. <b>1998</b> , 22, 263-9	40
1034	Mutants of Escherichia coli heat-labile enterotoxin as an adjuvant for nasal influenza vaccine. <b>1998</b> , 16, 248-54	30
1033	A simple method for site-directed mutagenesis with double-stranded plasmid DNA. <b>1998</b> , 9, 235-41	
1032	Fine tuning of an anti-testosterone antibody binding site by stepwise optimisation of the CDRs. <b>1998</b> , 4, 59-69	31
1031	The pathway for processing leader-derived peptides that regulate the maturation and expression of Qa-1b. <b>1998</b> , 9, 413-21	29
1030	Crystal structure of the N-terminal domain of sialoadhesin in complex with 3M ialyllactose at 1.85 A resolution. <b>1998</b> , 1, 719-28	244
1029	Conditional loss-of-myosin-II-function mutants reveal a position in the tail that is critical for filament nucleation. <b>1998</b> , 1, 1043-50	17
1028	Histone-like TAFs are essential for transcription in vivo. <b>1998</b> , 2, 663-73	95
1027	Glycine-independent NMDA receptor desensitization: localization of structural determinants. <b>1998</b> , 20, 329-39	92
1026	New DNA diagnostic system for detection of factor V Leiden. <b>1998</b> , 92, 251-9	7
1025	Bid, a Bcl2 interacting protein, mediates cytochrome c release from mitochondria in response to activation of cell surface death receptors. <b>1998</b> , 94, 481-90	3061
1024	Effect of cysteine replacements on the properties of the turgor sensor KdpD of Escherichia coli. <b>1998</b> , 1372, 311-22	14
1023	The turgor sensor KdpD of Escherichia coli is a homodimer. <b>1998</b> , 1415, 114-24	27
1022	MT1-MMP on the cell surface causes focal degradation of gelatin films. <b>1998</b> , 421, 159-64	89
1021	ABI2, a second protein phosphatase 2C involved in abscisic acid signal transduction in Arabidopsis. <b>1998</b> , 421, 185-90	187

1020	Substitution of Asn for Ser543 in the large fragment of Taq DNA polymerase increases the efficiency of synthesis of long DNA molecules. <b>1998</b> , 425, 249-50	3
1019	Importance of the N-glycan in the V3 loop of HIV-1 envelope protein for CXCR-4- but not CCR-5-dependent fusion. <b>1998</b> , 426, 367-72	30
1018	Tryptophan 272: an essential determinant of crystalline cellulose degradation by Trichoderma reesei cellobiohydrolase Cel6A. <b>1998</b> , 429, 341-6	105
1017	Identification of an uncoupling mutation affecting the b subunit of F1F0 ATP synthase in Escherichia coli. <b>1998</b> , 429, 201-6	38
1016	Site directed mutagenesis reduces the Na+ affinity of HKT1, an Na+ energized high affinity K+ transporter. <b>1998</b> , 432, 31-6	49
1015	Retracing the evolution of amino acid specificity in glutaminyl-tRNA synthetase. <b>1998</b> , 434, 149-54	8
1014	Elements regulating differential activity of chicken histone H1 gene promoters. <b>1998</b> , 17, 197-206	3
1013	Identification of a residue involved in transition-state stabilization in the ATPase reaction of DNA gyrase. <b>1998</b> , 37, 9658-67	41
1012	Structural features that determine the enzymatic potency and specificity of human angiogenin: threonine-80 and residues 58-70 and 116-123. <b>1998</b> , 37, 6847-56	33
1011	Multiple factors determine the selection of the ectodomain cleavage site of human cell surface macrophage colony-stimulating factor. <b>1998</b> , 37, 17898-904	11
1010	Phosphorylation changes the spatial relationship between Glu124-Arg143 and Cys18 and Cys165 of the regulatory light chain in smooth muscle myosin. <b>1998</b> , 37, 7676-85	2
1009	Role of the omega-loop in the activity, substrate specificity, and structure of class A beta-lactamase. <b>1998</b> , 37, 3286-96	79
1008	Amino acid residues involved in determining the processivity of the 3M5Mexonuclease activity in a family B DNA polymerase from the thermoacidophilic archaeon Sulfolobus solfataricus. 1998, 37, 15005-12	24
1007	Active-site binding of glycosides by Thermomonospora fusca endocellulase E2. <b>1998</b> , 37, 9220-9	33
1006	Metal and RNA binding properties of the hdm2 RING finger domain. <b>1998</b> , 37, 7005-15	42
1005	Interactions of Acanthamoeba profilin with actin and nucleotides bound to actin. <b>1998</b> , 37, 10871-80	137
1004	Contribution of a conserved asparagine to the conformational stability of ribonucleases Sa, Ba, and T1. <b>1998</b> , 37, 16192-200	56
1003	A single amino acid substitution in the human and a bacterial hypoxanthine phosphoribosyltransferase modulates specificity for the binding of guanine. <b>1998</b> , 37, 3491-8	14

1002	Characterization of Y122F R2 of Escherichia coli ribonucleotide reductase by time-resolved physical biochemical methods and X-ray crystallography. <b>1998</b> , 37, 5840-8	36
1001	Importance of intramembrane carboxylic acids for occlusion of K+ ions at equilibrium in renal Na,K-ATPase. <b>1998</b> , 37, 1961-8	81
1000	Proton transfer in benzyl alcohol dehydrogenase during catalysis: alternate proton-relay routes.  1998, 37, 3305-11	22
999	BglF, the sensor of the bgl system and the beta-glucosides permease of Escherichia coli: evidence for dimerization and intersubunit phosphotransfer. <b>1998</b> , 37, 8714-23	16
998	Antibody affinity maturation using bacterial surface display. 1998, 11, 825-32	143
997	Phosphorylation of ribosomal protein P0 is not essential for ribosome function but can affect translation. <b>1998</b> , 37, 16620-6	43
996	Molybdenum cofactor properties and [Fe-S] cluster coordination in Escherichia coli nitrate reductase A: investigation by site-directed mutagenesis of the conserved his-50 residue in the NarG subunit. <b>1998</b> , 37, 7363-70	70
995	Characterization of Sfp, a Bacillus subtilis phosphopantetheinyl transferase for peptidyl carrier protein domains in peptide synthetases. <b>1998</b> , 37, 1585-95	546
994	Reconstitution and characterization of the Escherichia coli enterobactin synthetase from EntB, EntE, and EntF. <b>1998</b> , 37, 2648-59	194
993	Exploring a channel to the active site of copper/topaquinone-containing phenylethylamine oxidase by chemical modification and site-specific mutagenesis. <b>1998</b> , 37, 13947-57	20
992	Catalysis in human hypoxanthine-guanine phosphoribosyltransferase: Asp 137 acts as a general acid/base. <b>1998</b> , 37, 4114-24	57
991	Effect of an amino acid insertion into the omega loop region of a class C beta-lactamase on its substrate specificity. <b>1998</b> , 37, 10461-8	31
990	Conversion of a cosubstrate to an inhibitor: phosphorylation mutants of nicotinic acid phosphoribosyltransferase. <b>1998</b> , 37, 4181-8	31
989	Identification of the covalent flavin attachment site in sarcosine oxidase. <b>1998</b> , 37, 2089-95	17
988	A single amino acid substitution changes ribonuclease 4 from a uridine-specific to a cytidine-specific enzyme. <b>1998</b> , 37, 9250-7	18
987	Identification of two electron-transfer sites in ascorbate peroxidase using chemical modification, enzyme kinetics, and crystallography. <b>1998</b> , 37, 17610-7	70
986	Identification of histidine 105 in the beta1 subunit of soluble guanylate cyclase as the heme proximal ligand. <b>1998</b> , 37, 4502-9	171
985	Identification of catalytic bases in the active site of Escherichia coli methylglyoxal synthase: cloning, expression, and functional characterization of conserved aspartic acid residues. <b>1998</b> , 37, 10074-86	35

984	Expression in Escherichia coli of the elongation factor 1beta gene and its nucleotide T160C mutant from the archaeon Sulfolobus solfataricus. <b>1998</b> , 12, 1-6	3
983	Expression and characterization of human tissue kallikrein variants. <b>1998</b> , 12, 361-70	15
982	The active site of pyrophosphate-dependent phosphofructo-1-kinase based on site-directed mutagenesis and molecular modeling. <b>1998</b> , 349, 47-52	7
981	Analysis of four residues within substrate recognition site 4 of human cytochrome P450 3A4: role in steroid hydroxylase activity and alpha-naphthoflavone stimulation. <b>1998</b> , 350, 223-32	119
980	Production and characterization of two variants of human cystatin SA encoded by two alleles at the CST2 locus of the type 2 cystatin gene family. <b>1998</b> , 352, 199-206	23
979	Aldehyde reductase: the role of C-terminal residues in defining substrate and cofactor specificities. <b>1998</b> , 355, 137-44	36
978	MAPKAPK5, a novel mitogen-activated protein kinase (MAPK)-activated protein kinase, is a substrate of the extracellular-regulated kinase (ERK) and p38 kinase. <b>1998</b> , 243, 492-6	91
977	Glycogen storage disease type II: identification of four novel missense mutations (D645N, G648S, R672W, R672Q) and two insertions/deletions in the acid alpha-glucosidase locus of patients of differing phenotype. <b>1998</b> , 244, 921-7	46
976	A selective switch-on system for self-renewal of embryonic stem cells using chimeric cytokine receptors. <b>1998</b> , 248, 22-7	17
975	Expression and activity of p67 are induced during heat shock. <b>1998</b> , 249, 113-7	15
975 974	Expression and activity of p67 are induced during heat shock. <b>1998</b> , 249, 113-7  The expression of beta-microseminoprotein gene is regulated by cAMP. <b>1998</b> , 248, 852-7	15
974	The expression of beta-microseminoprotein gene is regulated by cAMP. <b>1998</b> , 248, 852-7  Characterization of phospholipase A2 (PLA2) from Taiwan Cobra: isoenzymes and their	6
974 973	The expression of beta-microseminoprotein gene is regulated by cAMP. <b>1998</b> , 248, 852-7  Characterization of phospholipase A2 (PLA2) from Taiwan Cobra: isoenzymes and their site-directed mutants. <b>1998</b> , 250, 154-60	7
974 973 972	The expression of beta-microseminoprotein gene is regulated by cAMP. <b>1998</b> , 248, 852-7  Characterization of phospholipase A2 (PLA2) from Taiwan Cobra: isoenzymes and their site-directed mutants. <b>1998</b> , 250, 154-60  An essential methionine residue involved in substrate binding by phosphofructokinases. <b>1998</b> , 250, 466-8  MAPKKK6, a novel mitogen-activated protein kinase kinase kinase, that associates with MAPKKK5.	6 7 9
974 973 972 971	The expression of beta-microseminoprotein gene is regulated by cAMP. 1998, 248, 852-7  Characterization of phospholipase A2 (PLA2) from Taiwan Cobra: isoenzymes and their site-directed mutants. 1998, 250, 154-60  An essential methionine residue involved in substrate binding by phosphofructokinases. 1998, 250, 466-8  MAPKKK6, a novel mitogen-activated protein kinase kinase kinase, that associates with MAPKKK5. 1998, 253, 33-7  Analysis of active site residues of the antiviral protein from summer leaves from Phytolacca	6 7 9 58
974 973 972 971 970	The expression of beta-microseminoprotein gene is regulated by cAMP. 1998, 248, 852-7  Characterization of phospholipase A2 (PLA2) from Taiwan Cobra: isoenzymes and their site-directed mutants. 1998, 250, 154-60  An essential methionine residue involved in substrate binding by phosphofructokinases. 1998, 250, 466-8  MAPKKK6, a novel mitogen-activated protein kinase kinase kinase, that associates with MAPKKK5. 1998, 253, 33-7  Analysis of active site residues of the antiviral protein from summer leaves from Phytolacca americana by site-directed mutagenesis. 1998, 253, 582-7  Alteration of different domains in AFLR affects aflatoxin pathway metabolism in Aspergillus	6 7 9 58 7

966	GTP-dependent conformational changes associated with the functional switch between Galpha and cross-linking activities in brain-derived tissue transglutaminase. <b>1998</b> , 282, 713-20	39
965	Regulation of phosphatase activity in bacterial chemotaxis. <b>1998</b> , 284, 1191-9	47
964	Transient kinetic studies on the interaction of Ras and the Ras-binding domain of c-Raf-1 reveal rapid equilibration of the complex. <b>1998</b> , 37, 14292-9	116
963	Mutations in the EF-hand motif impair the inactivation of barium currents of the cardiac alpha1C channel. <b>1998</b> , 75, 1727-39	51
962	Anomalous rectifying properties of Maiazepam-insensitiveMGABA(A) receptors. 1998, 345, 315-21	3
961	Construction of an efficient Bacillus subtilis system for extracellular production of heterologous proteins. <b>1998</b> , 63, 167-77	69
960	Distinct structural requirements for the direct and indirect actions of the anaesthetic etomidate at GABA(A) receptors. <b>1998</b> , 100-101, 209-15	14
959	Repression by the 3MJTR of fem-3, a sex-determining gene, relies on a ubiquitous mog-dependent control in Caenorhabditis elegans. <b>1998</b> , 17, 6337-47	48
958	Localization of a protein-DNA interface by random mutagenesis. <b>1998</b> , 17, 7118-27	23
957	Identification of a membrane-spanning domain of the thiol-activated pore-forming toxin Clostridium perfringens perfringolysin O: an alpha-helical to beta-sheet transition identified by fluorescence spectroscopy. <b>1998</b> , 37, 14563-74	285
956	In vivo incorporation of unnatural amino acids into ion channels in Xenopus oocyte expression system. <b>1998</b> , 293, 504-29	139
955	Determinants of kinesin motor polarity. <b>1998</b> , 281, 1200-2	120
954	Biochemical and Molecular Methods for the Study of Marine Fungi. <b>1998</b> , 259-283	11
953	Tissue-specific and androgen-repressible regulation of the rat dehydroepiandrosterone sulfotransferase gene promoter. <b>1998</b> , 273, 21856-66	54
952	Mycoplasma superantigen is a CDR3-dependent ligand for the T cell antigen receptor. <b>1998</b> , 187, 319-27	51
951	Mutational analysis of Chlorella virus DNA ligase: catalytic roles of domain I and motif VI. <b>1998</b> , 26, 4618-25	76
950	Identification of Lys-403 in the PI-SceI homing endonuclease as part of a symmetric catalytic center. <b>1998</b> , 273, 30524-9	24
949	Characterization of human TCR Vbeta gene promoter. Role of the dodecamer motif in promoter activity. <b>1998</b> , 273, 23709-15	7

948	FH3, a domain found in formins, targets the fission yeast formin Fus1 to the projection tip during conjugation. <b>1998</b> , 141, 1217-28	143
947	The interactions of the cytokine-binding homology region and immunoglobulin-like domains of gp130 with oncostatin M: implications for receptor complex formation. <b>1998</b> , 11, 1093-102	23
946	Structural requirements for in vivo myosin I function in Aspergillus nidulans. <b>1998</b> , 273, 27017-25	27
945	Structural and functional properties of two mutants of lecithin-cholesterol acyltransferase (T123I and N228K). <b>1998</b> , 273, 32561-7	23
944	Conserved use of a non-canonical 5Msplice site (/GA) in alternative splicing by fibroblast growth factor receptors 1, 2 and 3. <b>1998</b> , 7, 685-91	33
943	Identification of p130Cas as a mediator of focal adhesion kinase-promoted cell migration. <b>1998</b> , 140, 211-21	419
942	Single-chain Fv with manifold N-glycans as bifunctional scaffolds for immunomolecules. <b>1998</b> , 11, 1277-83	20
941	Heat stress activates fission yeast Spc1/Styl MAPK by a MEKK-independent mechanism. <b>1998</b> , 9, 1339-49	100
940	Recognition signal for C-mannosylation of Trp-7 in RNase 2 consists of sequence Trp-x-x-Trp. <b>1998</b> , 9, 301-9	119
939	Transcriptional regulation of the differentiation-linked human K4 promoter is dependent upon esophageal-specific nuclear factors. <b>1998</b> , 273, 23912-21	16
938	Functional consequences of ROMK mutants linked to antenatal BartterMsyndrome and implications for treatment. <b>1998</b> , 7, 975-80	45
937	Amino acid residues in both the protein splicing and endonuclease domains of the PI-SceI intein mediate DNA binding. <b>1998</b> , 273, 4607-15	45
936	The structure of the beta-propeller domain and C-terminal region of the integrin alphaM subunit. Dependence on beta subunit association and prediction of domains. <b>1998</b> , 273, 15138-47	52
935	Identification of TaqI endonuclease active site residues by Fe2+-mediated oxidative cleavage. <b>1998</b> , 273, 33002-10	18
934	An atypical sorting determinant in the cytoplasmic domain of P-selectin mediates endosomal sorting. <b>1998</b> , 9, 1683-94	21
933	Coupled translocation events generate topological heterogeneity at the endoplasmic reticulum membrane. <b>1998</b> , 9, 2681-97	33
932	DNA binding and transcription activation specificity of hepatocyte nuclear factor 4. <b>1998</b> , 26, 2702-7	51
931	A unique constitutively activating mutation in third transmembrane helix of luteinizing hormone receptor causes sporadic male gonadotropin-independent precocious puberty. <b>1998</b> , 83, 2435-40	70

## (1998-1998)

930	A homozygous microdeletion in helix 7 of the luternizing hormone receptor associated with familial testicular and ovarian resistance is due to both decreased cell surface expression and impaired effector activation by the cell surface receptor. <b>1998</b> , 12, 442-50	105
929	The agonist-induced phosphorylation of the rat follitropin receptor maps to the first and third intracellular loops. <b>1998</b> , 12, 580-91	53
928	Light Regulation of Fed-1 mRNA Requires an Element in the 5MUntranslated Region and Correlates with Differential Polyribosome Association. <b>1998</b> , 10, 475	
927	Conversion of thyrotropin heterodimer to a biologically active single-chain. <b>1998</b> , 139, 2459-64	25
926	Identification of trophoblast-specific regulatory elements in the mouse placental lactogen II gene. <b>1998</b> , 12, 418-27	14
925	Expression of 5alpha-reductase in the human temporal lobe of children and adults. <b>1998</b> , 83, 3636-42	29
924	Regulation of human alcohol dehydrogenase gene ADH7: importance of an AP-1 site. <b>1998</b> , 17, 583-90	8
923	Function of cis-acting elements in human alcohol dehydrogenase 4 (ADH4) promoter and role of C/EBP proteins in gene expression. <b>1998</b> , 17, 387-97	13
922	A determinant of substrate specificity predicted from the acyl-acyl carrier protein desaturase of developing catMclaw seed. <b>1998</b> , 117, 593-8	83
921	Basic Cloning Procedures. 1998,	
920	Specific substitutions at amino acid 256 of the sarcoplasmic/endoplasmic reticulum Ca2+ transport ATPase mediate resistance to thapsigargin in thapsigargin-resistant hamster cells. <b>1998</b> , 273, 3542-6	41
919	Co- and posttranslational translocation mechanisms direct cystic fibrosis transmembrane conductance regulator N terminus transmembrane assembly. <b>1998</b> , 273, 568-76	90
918	ATP hydrolysis catalyzed by human replication factor C requires participation of multiple subunits. <b>1998</b> , 95, 11607-12	43
917	The beta subunit of the high conductance calcium-activated potassium channel. Identification of residues involved in charybdotoxin binding. <b>1998</b> , 273, 16289-96	65
916	Catalytic domain of phosphoinositide-specific phospholipase C (PLC). Mutational analysis of residues within the active site and hydrophobic ridge of plcdelta1. <b>1998</b> , 273, 11650-9	117
915	Overexpression of hepatic lipase in transgenic mice decreases apolipoprotein B-containing and high density lipoproteins. Evidence that hepatic lipase acts as a ligand for lipoprotein uptake. <b>1998</b> , 273, 1896-903	92
914	Caspases cleave focal adhesion kinase during apoptosis to generate a FRNK-like polypeptide. <b>1998</b> , 273, 17102-8	160
913	Autoactivation of avian urokinase-type plasminogen activator (uPA). A novel mode of initiation of the uPA/plasmin cascade. <b>1998</b> , 273, 7457-61	6

912	Molecular identification of the ryanodine receptor Ca2+ sensor. 1998, 273, 14675-8	102
911	Direct demonstration of Ca2+ binding defects in sarco-endoplasmic reticulum Ca2+ ATPase mutants overexpressed in COS-1 cells transfected with adenovirus vectors. <b>1998</b> , 273, 15104-9	40
910	Intramolecular processing of prothermolysin. <b>1998</b> , 273, 5697-701	39
909	Substrate mutations that bypass a specific Cpn10 chaperonin requirement for protein folding. <b>1998</b> , 273, 34075-86	16
908	Nuclear receptor involvement in the regulation of rat cytochrome P450 3A23 expression. <b>1998</b> , 273, 16155-62	40
907	An alternative domain determines nuclear localization in multifunctional protein 4.1. <b>1998</b> , 273, 11643-9	38
906	Signaling and phosphorylation-impaired mutants of the rat follitropin receptor reveal an activation-and phosphorylation-independent but arrestin-dependent pathway for internalization. <b>1998</b> , 273, 24346-54	56
905	Nck recruitment to Eph receptor, EphB1/ELK, couples ligand activation to c-Jun kinase. <b>1998</b> , 273, 1303-8	133
904	Autoprocessing and peptide substrates for human herpesvirus 6 proteinase. 1998, 273, 26441-6	13
903	Nucleotide-dependent conformational change near the fulcrum region in Dictyostelium myosin II. <b>1998</b> , 95, 12844-7	10
902	Tenascin-C hexabrachion assembly is a sequential two-step process initiated by coiled-coil alpha-helices. <b>1998</b> , 273, 10602-8	91
901	A highly conserved glutamate residue (Glu-270) is essential for plant alternative oxidase activity. <b>1998</b> , 273, 30301-5	35
900	Constitutive activation of endocytosis by mutation of myoA, the myosin I gene of Aspergillus nidulans. <b>1998</b> , 273, 14644-8	72
899	Interaction of actin monomers with Acanthamoeba actophorin (ADF/cofilin) and profilin. 1998, 273, 25106-11	143
898	Role of the S3 stalk segment in the thapsigargin concentration dependence of sarco-endoplasmic reticulum Ca2+ ATPase inhibition. <b>1998</b> , 273, 12994-8	36
897	Selective activation of p38 mitogen-activated protein (MAP) kinase isoforms by the MAP kinase kinases MKK3 and MKK6. <b>1998</b> , 273, 1741-8	434
896	Progressive C-terminal deletions of the renal cystine transporter, NBAT, reveal a novel bimodal pattern of functional expression. <b>1998</b> , 273, 32980-7	13
895	The glucose transporter of the Escherichia coli phosphotransferase system. Mutant analysis of the invariant arginines, histidines, and domain linker. <b>1998</b> , 273, 12239-43	43

894	Tissue plasminogen activator binding to the annexin II tail domain. Direct modulation by homocysteine. <b>1998</b> , 273, 9987-93	176
893	Phosphorylation at the nuclear localization signal of Ca2+/calmodulin-dependent protein kinase II blocks its nuclear targeting. <b>1998</b> , 273, 19763-71	90
892	E-box-binding repressor is down-regulated in hepatic stellate cells during up-regulation of mannose 6-phosphate/insulin-like growth factor-II receptor expression in early hepatic fibrogenesis. <b>1998</b> , 273, 15913-9	24
891	Activation and processing of non-anchored yapsin 1 (Yap3p). <b>1998</b> , 273, 584-91	28
890	p42/p44 MAP kinase module plays a key role in the transcriptional regulation of the vascular endothelial growth factor gene in fibroblasts. <b>1998</b> , 273, 18165-72	239
889	Mutational analysis of Arg197 of rat surfactant protein A. His197 creates specific lipid uptake defects. <b>1998</b> , 273, 5702-7	17
888	Chlorella virus DNA ligase: Nick recognition and mutational analysis. <b>1998</b> , 26, 502-531	3
887	Mutational analysis of the Tetrahymena telomerase RNA: identification of residues affecting telomerase activity in vitro. <b>1998</b> , 26, 787-95	41
886	Inhibition of CCAAT/enhancer-binding protein alpha and beta translation by upstream open reading frames. <b>1998</b> , 273, 9552-60	73
885	Differential recognition of histone H10 by monoclonal antibodies during cell differentiation and the arrest of cell proliferation. <b>1998</b> , 273, 1208-15	11
884	Regulation of zinc homeostasis in yeast by binding of the ZAP1 transcriptional activator to zinc-responsive promoter elements. <b>1998</b> , 273, 28713-20	140
883	Light regulation of Fed-1 mRNA requires an element in the 5Mintranslated region and correlates with differential polyribosome association. <b>1998</b> , 10, 475-84	71
882	The anti-angiogenic agent fumagillin covalently modifies a conserved active-site histidine in the Escherichia coli methionine aminopeptidase. <b>1998</b> , 95, 12153-7	128
881	The substrate-binding site in the lactose permease of Escherichia coli. <b>1998</b> , 95, 9802-7	94
880	RNA polymerase subunit RPB5 plays a role in transcriptional activation. <b>1998</b> , 95, 15281-6	46
879	Conserved residues and motifs in the NixA protein of Helicobacter pylori are critical for the high affinity transport of nickel ions. <b>1998</b> , 273, 235-41	67
878	The guanylyltransferase domain of mammalian mRNA capping enzyme binds to the phosphorylated carboxyl-terminal domain of RNA polymerase II. <b>1998</b> , 273, 9577-85	109
877	Single-stranded DNA-binding proteins and neuron-restrictive silencer factor participate in cell-specific transcriptional control of the NMDAR1 gene. <b>1998</b> , 273, 1086-91	49

876	Creation of a fully functional human chimeric DNA repair protein. Combining O6-methylguanine DNA methyltransferase (MGMT) and AP endonuclease (APE/redox effector factor 1 (Ref 1)) DNA repair proteins. <b>1998</b> , 273, 756-62	27
875	Mutational analysis of invariant arginines in the IIAB(Man) subunit of the Escherichia coli phosphotransferase system. <b>1998</b> , 273, 12234-8	11
874	Localization of the functional domains of human tissue inhibitor of metalloproteinases-3 and the effects of a Sorsbyld fundus dystrophy mutation. <b>1998</b> , 273, 16778-81	98
873	Induction of the erythropoietin receptor gene and acquisition of responsiveness to erythropoietin by stem cell factor in HML/SE, a human leukemic cell line. <b>1998</b> , 273, 16921-6	14
872	Mutagenesis of the C2 domain of protein kinase C-alpha. Differential roles of Ca2+ ligands and membrane binding residues. <b>1998</b> , 273, 17544-52	102
871	Topology of the region surrounding Glu681 of human AE1 protein, the erythrocyte anion exchanger. <b>1998</b> , 273, 22545-53	76
870	The calcium sensing receptor and its alternatively spliced form in keratinocyte differentiation. <b>1998</b> , 273, 23344-52	126
869	Individual substitutions of clustered arginine residues of the sensor kinase KdpD of Escherichia coli modulate the ratio of kinase to phosphatase activity. <b>1998</b> , 273, 26415-20	28
868	Zinc-induced inactivation of the yeast ZRT1 zinc transporter occurs through endocytosis and vacuolar degradation. <b>1998</b> , 273, 28617-24	164
867	The propeptide domain of membrane type 1 matrix metalloproteinase is required for binding of tissue inhibitor of metalloproteinases and for activation of pro-gelatinase A. <b>1998</b> , 273, 34745-52	64
866	Analysis of chimeric proteins identifies the regions in the carbohydrate recognition domains of rat lung collectins that are essential for interactions with phospholipids, glycolipids, and alveolar type II cells. <b>1998</b> , 273, 4783-9	46
865	Specificity improvement of a recombinant anti-testosterone Fab fragment by CDRIII mutagenesis and phage display selection. <b>1998</b> , 11, 311-9	25
864	Replacement of the active site tyrosine of vaccinia DNA topoisomerase by glutamate, cysteine or histidine converts the enzyme into a site-specific endonuclease. <b>1998</b> , 26, 490-6	18
863	Microtubule-damaging drugs triggered bcl2 phosphorylation-requirement of phosphorylation on both serine-70 and serine-87 residues of bcl2 protein. <b>1998</b> , 13, 659-64	29
862	Cloning and stabilization of NAD-dependent formate dehydrogenase from Candida boidinii by site-directed mutagenesis. <b>1998</b> , 15, 331-336	2
861	Regulation of leptin promoter function by Sp1, C/EBP, and a novel factor. <b>1998</b> , 139, 1013-22	113
860	Roles of the Ser146, Tyr159, and Lys163 residues in the catalytic action of 7alpha-hydroxysteroid dehydrogenase from Escherichia coli. <b>1998</b> , 124, 634-41	44
859	Two amino acid substitutions convert a guanylyl cyclase, RetGC-1, into an adenylyl cyclase. <b>1998</b> , 95, 5993-7	196

858	[11] Use of Synechocystis 6803 to study expression of a psbA gene family. <b>1998</b> , 166-182	11
857	RAFT1 phosphorylation of the translational regulators p70 S6 kinase and 4E-BP1. <b>1998</b> , 95, 1432-7	932
856	A hydrophobic segment within the 81-amino-acid domain of TFIIIA from Saccharomyces cerevisiae is essential for its transcription factor activity. <b>1998</b> , 18, 420-32	18
855	Novel regulatory factors interacting with the promoter of the gene encoding the mRNA cap binding protein (eIF4E) and their function in growth regulation. <b>1998</b> , 18, 5621-33	26
854	SHP-1 binds and negatively modulates the c-Kit receptor by interaction with tyrosine 569 in the c-Kit juxtamembrane domain. <b>1998</b> , 18, 2089-99	181
853	Selenium deficiency reduces the abundance of mRNA for Se-dependent glutathione peroxidase 1 by a UGA-dependent mechanism likely to be nonsense codon-mediated decay of cytoplasmic mRNA. <b>1998</b> , 18, 2932-9	196
852	Carbon source-dependent phosphorylation of hexokinase PII and its role in the glucose-signaling response in yeast. <b>1998</b> , 18, 2940-8	100
851	Transcription factor Pip can enhance DNA binding by E47, leading to transcriptional synergy involving multiple protein domains. <b>1998</b> , 18, 4639-50	62
850	Cytoskeletal reorganization by G protein-coupled receptors is dependent on phosphoinositide 3-kinase gamma, a Rac guanosine exchange factor, and Rac. <b>1998</b> , 18, 4744-51	171
849	GATA-Dependent expression of the interleukin-1 receptor-related T1 gene in mast cells. <b>1998</b> , 18, 5320-31	26
848	Cdkn2a, the cyclin-dependent kinase inhibitor encoding p16INK4a and p19ARF, is a candidate for	
	the plasmacytoma susceptibility locus, Pctr1. <b>1998</b> , 95, 2429-34	117
847	the plasmacytoma susceptibility locus, Pctr1. <b>1998</b> , 95, 2429-34  CNS1 encodes an essential p60/Sti1 homolog in Saccharomyces cerevisiae that suppresses cyclophilin 40 mutations and interacts with Hsp90. <b>1998</b> , 18, 7344-52	82
8 <sub>47</sub>	CNS1 encodes an essential p60/Sti1 homolog in Saccharomyces cerevisiae that suppresses	
	CNS1 encodes an essential p60/Sti1 homolog in Saccharomyces cerevisiae that suppresses cyclophilin 40 mutations and interacts with Hsp90. <b>1998</b> , 18, 7344-52  Association of transcription factor IIA with TATA binding protein is required for transcriptional activation of a subset of promoters and cell cycle progression in Saccharomyces cerevisiae. <b>1998</b> ,	82
846	CNS1 encodes an essential p60/Sti1 homolog in Saccharomyces cerevisiae that suppresses cyclophilin 40 mutations and interacts with Hsp90. <b>1998</b> , 18, 7344-52  Association of transcription factor IIA with TATA binding protein is required for transcriptional activation of a subset of promoters and cell cycle progression in Saccharomyces cerevisiae. <b>1998</b> , 18, 2559-70  Saccharomyces cerevisiae Msh2p and Msh6p ATPase activities are both required during mismatch	82
846	CNS1 encodes an essential p60/Sti1 homolog in Saccharomyces cerevisiae that suppresses cyclophilin 40 mutations and interacts with Hsp90. 1998, 18, 7344-52  Association of transcription factor IIA with TATA binding protein is required for transcriptional activation of a subset of promoters and cell cycle progression in Saccharomyces cerevisiae. 1998, 18, 2559-70  Saccharomyces cerevisiae Msh2p and Msh6p ATPase activities are both required during mismatch repair. 1998, 18, 7590-601  Dbp6p is an essential putative ATP-dependent RNA helicase required for 60S-ribosomal-subunit	82 44 81
846 845 844	CNS1 encodes an essential p60/Sti1 homolog in Saccharomyces cerevisiae that suppresses cyclophilin 40 mutations and interacts with Hsp90. 1998, 18, 7344-52  Association of transcription factor IIA with TATA binding protein is required for transcriptional activation of a subset of promoters and cell cycle progression in Saccharomyces cerevisiae. 1998, 18, 2559-70  Saccharomyces cerevisiae Msh2p and Msh6p ATPase activities are both required during mismatch repair. 1998, 18, 7590-601  Dbp6p is an essential putative ATP-dependent RNA helicase required for 60S-ribosomal-subunit assembly in Saccharomyces cerevisiae. 1998, 18, 1855-65  Human alpha-galactosidase A: glycosylation site 3 is essential for enzyme solubility. 1998, 332 ( Pt	82 44 81 80

840	A role for CREB binding protein and p300 transcriptional coactivators in Ets-1 transactivation functions. <b>1998</b> , 18, 2218-29	178
839	The HMG domain protein SSRP1/PREIIBF is involved in activation of the human embryonic beta-like globin gene. <b>1998</b> , 18, 2617-28	33
838	c-Maf interacts with c-Myb to regulate transcription of an early myeloid gene during differentiation. <b>1998</b> , 18, 2729-37	88
837	A binding site for multiple transcriptional activators in the fushi tarazu proximal enhancer is essential for gene expression in vivo. <b>1998</b> , 18, 3384-94	21
836	Phosphorylation of the Spo0B response regulator phosphotransferase of the phosphorelay initiating development in Bacillus subtilis. <b>1998</b> , 273, 23849-55	18
835	Neurabin is a synaptic protein linking p70 S6 kinase and the neuronal cytoskeleton. <b>1998</b> , 95, 8351-6	103
834	Human histamine N-methyltransferase pharmacogenetics: common genetic polymorphisms that alter activity. <b>1998</b> , 53, 708-17	123
833	Quantitation of 5HT2A receptor mRNA in human postmortem brain using competitive RT-PCR. <b>1998</b> , 9, 3761-5	32
832	Structural and functional properties of the N transcriptional activation domain of thyroid transcription factor-1: similarities with the acidic activation domains. <b>1998</b> , 329 ( Pt 2), 395-403	30
831	Selectivity of post-translational modification in biotinylated proteins: the carboxy carrier protein of the acetyl-CoA carboxylase of Escherichia coli. <b>1998</b> , 329 ( Pt 3), 589-96	44
830	Critical role of arg433 in rat transketolase activity as probed by site-directed mutagenesis. <b>1998</b> , 333 ( Pt 2), 367-72	19
829	Cloning and thermostability of TaqI endonuclease isoschizomers from Thermus species SM32 and Thermus filiformis Tok6A1. <b>1998</b> , 333 ( Pt 2), 425-31	9
828	Effects of phosphorylation on function of the Rad GTPase. <b>1998</b> , 333 ( Pt 3), 609-14	28
827	Loop III region of platelet-derived growth factor (PDGF) B-chain mediates binding to PDGF receptors and heparin. <b>1998</b> , 333 ( Pt 3), 637-44	27
826	Lutropins appear to contact two independent sites in the extracellular domain of their receptors. <b>1998</b> , 335 ( Pt 3), 611-7	23
825	Human mitogen-activated protein kinase kinase kinase mediates the stress-induced activation of mitogen-activated protein kinase cascades. <b>1998</b> , 336 (Pt 3), 599-609	69
824	PAX 8 activates the enhancer of the human thyroperoxidase gene. <b>1998</b> , 331 ( Pt 1), 37-40	46
823	Aging-associated up-regulation of neuronal 5-lipoxygenase expression: putative role in neuronal vulnerability. <b>1998</b> , 12, 439-49	104

822	Protein kinase C disrupts cannabinoid actions by phosphorylation of the CB1 cannabinoid receptor. <b>1998</b> , 18, 2834-41	134
821	PCR-based method for the introduction of mutations in genes cloned and expressed in vaccinia virus. <b>1998</b> , 24, 308-13	12
820	Disulfide bonding and cysteine accessibility in the alpha-amino-3-hydroxy-5-methylisoxazole-4-propionic acid receptor subunit GluRD. Implications for redox modulation of glutamate receptors. <b>1998</b> , 273, 25132-8	22
819	Structural features determining differential receptor regulation of neuronal Ca channels. <b>1998</b> , 18, 3689-98	42
818	PCR-mediated mutagenesis in sequences recalcitrant to homogeneous amplification. <b>1998</b> , 25, 364-6	6
817	Site-directed mutagenesis using PCR-mediated introduction of silent mutations. <b>1998</b> , 25, 184-8	7
816	CD40 ligand (CD154) stimulation of macrophages to produce HIV-1-suppressive beta-chemokines. <b>1998</b> , 95, 5205-10	113
815	Characterization of the critical amino acids of an Aspergillus parasiticus cytochrome P-450 monooxygenase encoded by ordA that is involved in the biosynthesis of aflatoxins B1, G1, B2, and G2. <b>1998</b> , 64, 4834-41	82
814	Thrombopoietin Production Is Inhibited by a Translational Mechanism. <b>1998</b> , 92, 4023-4030	61
813	Some Human Inhibitor Antibodies Interfere With Factor VIII Binding to Factor IX. <b>1998</b> , 92, 136-142	86
812	Erythropoietin Receptor and STAT5-Specific Pathways Promote SKT6 Cell Hemoglobinization. <b>1998</b> , 92, 1104-1118	31
811	On the Role of the Proform-Conformation for Processing and Intracellular Sorting of Human Cathepsin G. <b>1998</b> , 92, 1415-1422	31
810	Dbp7p, a putative ATP-dependent RNA helicase from Saccharomyces cerevisiae, is required for 60S ribosomal subunit assembly. <b>1998</b> , 4, 566-81	78
809	A long-range interaction in Qbeta RNA that bridges the thousand nucleotides between the M-site and the 3Mend is required for replication. <b>1998</b> , 4, 948-57	60
808	Dominant C2 Domain Epitope Specificity of Inhibitor Antibodies Elicited by a Heat Pasteurized Product, Factor VIII CPS-P, in Previously Treated Hemophilia A Patients without Inhibitors. <b>1998</b> , 79, 62-68	33
807	Improved protocol for high-throughput cysteine scanning mutagenesis. <b>1998</b> , 25, 764-6, 768, 770 passim	35
806	Overloaded endoplasmic reticulum-Golgi compartments, a possible pathomechanism of peripheral neuropathies caused by mutations of the peripheral myelin protein PMP22. <b>1998</b> , 18, 731-40	113
805	16S rRNA mutation associated with tetracycline resistance in a gram-positive bacterium. <b>1998</b> , 42, 1702-5	147

804	Polyamine stimulation of the synthesis of oligopeptide-binding protein (OppA). Involvement of a structural change of the Shine-Dalgarno sequence and the initiation codon aug in oppa mRNA. <b>1999</b> , 274, 22723-8	54
803	Functional consequences of mutations in the human alpha1A calcium channel subunit linked to familial hemiplegic migraine. <b>1999</b> , 19, 1610-9	216
802	Nicotinic receptor assembly requires multiple regions throughout the gamma subunit. <b>1999</b> , 19, 6298-308	17
801	Site-directed mutagenesis using uracil-containing double-stranded DNA templates and DpnI digestion. <b>1999</b> , 27, 734-8	15
800	Distinct domains of the CB1 cannabinoid receptor mediate desensitization and internalization. <b>1999</b> , 19, 3773-80	200
799	Induction of mucin gene expression in human colonic cell lines by PMA is dependent on PKC-epsilon. <b>1999</b> , 277, G1041-7	26
798	Noncleavable transmembrane mouse tumor necrosis factor-alpha (TNFalpha) mediates effects distinct from those of wild-type TNFalpha in vitro and in vivo. <b>1999</b> , 274, 38112-8	58
797	The active site of the Escherichia coli MutY DNA adenine glycosylase. <b>1999</b> , 274, 29011-8	38
796	CCAAT/enhancer binding protein-beta trans-activates murine nitric oxide synthase 2 gene in an MTAL cell line. <b>1999</b> , 276, F599-605	17
795	Regulation of alpha1-antitrypsin gene expression in human intestinal epithelial cell line caco-2 by HNF-1alpha and HNF-4. <b>1999</b> , 276, G1181-94	20
794	Selectivity of the polyspecific cation transporter rOCT1 is changed by mutation of aspartate 475 to glutamate. <b>1999</b> , 56, 1254-61	101
793	A structural model for phosphorylation control of Dictyostelium myosin II thick filament assembly. <b>1999</b> , 147, 1039-48	37
79 <sup>2</sup>	Quantitative Reverse Transcription-PCR Assay with an Internal Standard for the Detection of Prostate-specific Antigen mRNA. <b>1999</b> , 45, 1397-1407	35
791	Cerebellar granule cell-specific and inducible expression of Cre recombinase in the mouse. <b>1999</b> , 19, 10318-23	52
790	A Mutation in the ? Subunit of the Platelet Integrin ?IIbIIB Identifies a Novel Region Important for Ligand Binding. <b>1999</b> , 93, 918-924	27
789	A Secreted Proform of Neutrophil Proteinase 3 Regulates the Proliferation of Granulopoietic Progenitor Cells. <b>1999</b> , 93, 849-856	48
788	Cytoplasmic Domains of the Leukemia Inhibitory Factor Receptor Required for STAT3 Activation, Differentiation, and Growth Arrest of Myeloid Leukemic Cells. <b>1999</b> , 93, 1934-1941	39
787	Multiple elements and protein factors coordinate the basal and cyclic adenosine  3N5Mmonophosphate-induced transcription of the lutropin receptor gene in rat granulosa cells.	45

786	Identification of essential subelements in the hHSD17B1 enhancer: difference in function of the enhancer and that of the hHSD17BP1 analog is due to -480C and -486G. <b>1999</b> , 140, 3478-87	7
785	Biological effects of c-Mer receptor tyrosine kinase in hematopoietic cells depend on the Grb2 binding site in the receptor and activation of NF-kappaB. <b>1999</b> , 19, 1171-81	81
7 <sup>8</sup> 4	Rho3 of Saccharomyces cerevisiae, which regulates the actin cytoskeleton and exocytosis, is a GTPase which interacts with Myo2 and Exo70. <b>1999</b> , 19, 3580-7	168
783	The membrane topology of proton-pumping Escherichia coli transhydrogenase determined by cysteine labeling. <b>1999</b> , 274, 19072-80	49
782	Relocation of the catalytic carboxylate group in class A beta-lactamase: the structure and function of the mutant enzyme Glu166>Gln:Asn170>Asp. <b>1999</b> , 12, 573-9	9
781	Cellular distribution of a mixed MHC class II heterodimer between DRalpha and a chimeric DObeta chain. <b>1999</b> , 11, 99-111	10
78o	Association of a tetraspanin CD9 with CD5 on the T cell surface: role of particular transmembrane domains in the association. <b>1999</b> , 11, 2043-52	36
779	Superior Biocatalysts by Directed Evolution. <b>1999</b> , 31-57	81
778	The hierarchy of mutations influencing the folding of antibody domains in Escherichia coli. <b>1999</b> , 12, 605-11	27
777	Group II intron splicing in chloroplasts: identificationof mutations determining intron stability and fate of exon RNA. <b>1999</b> , 27, 2345-53	21
776	Stabilization from autoproteolysis and kinetic characterization of the human T-cell leukemia virus type 1 proteinase. <b>1999</b> , 274, 6660-6	46
775	Induction of autoantibodies to mouse CCR5 with recombinant papillomavirus particles. <b>1999</b> , 96, 2373-8	97
774	Identification of residues lining the translocation pore of human AE1, plasma membrane anion exchange protein. <b>1999</b> , 274, 3557-64	46
773	RNA polymerase-specific nucleosome disruption by transcription in vivo. <b>1999</b> , 274, 16431-6	20
772	The telomerase RNA pseudoknot is critical for the stable assembly of a catalytically active ribonucleoprotein. <b>1999</b> , 96, 6621-5	86
771	Mapping of the discontinuous H-kininogen binding site of plasma prekallikrein. Evidence for a critical role of apple domain-2. <b>1999</b> , 274, 25777-84	45
770	A pH-dependent conformational change of NhaA Na(+)/H(+) antiporter of Escherichia coli involves loop VIII-IX, plays a role in the pH response of the protein, and is maintained by the pure protein in dodecyl maltoside. <b>1999</b> , 274, 24617-24	70
769	A novel src homology 3 domain-containing adaptor protein, HIP-55, that interacts with hematopoietic progenitor kinase 1. <b>1999</b> , 274, 33945-50	60

768	Molecular identification of the ryanodine receptor pore-forming segment. <b>1999</b> , 274, 25971-4	161
767	Interaction of non-competitive blockers within the gamma-aminobutyric acid type A chloride channel using chemically reactive probes as chemical sensors for cysteine mutants. <b>1999</b> , 274, 25350-4	57
766	The in vivo association of BiP with newly synthesized proteins is dependent on the rate and stability of folding and not simply on the presence of sequences that can bind to BiP. <b>1999</b> , 144, 21-30	62
765	Identification and expression of glycine decarboxylase (p120) as a duck hepatitis B virus pre-S envelope-binding protein. <b>1999</b> , 274, 27658-65	22
764	Contributions of aspartate 49 and phenylalanine 142 residues of a tight binding inhibitory protein of beta-lactamases. <b>1999</b> , 274, 2394-400	61
763	Altered substrate selectivity in a mutant of an intrahelical salt bridge in UhpT, the sugar phosphate carrier of Escherichia coli. <b>1999</b> , 274, 6148-53	23
762	MAL, an integral element of the apical sorting machinery, is an itinerant protein that cycles between the trans-Golgi network and the plasma membrane. <b>1999</b> , 10, 3435-47	81
761	A structure-function study of the C2 domain of cytosolic phospholipase A2. Identification of essential calcium ligands and hydrophobic membrane binding residues. <b>1999</b> , 274, 9665-72	113
760	Two murine and human homologs of mab-21, a cell fate determination gene involved in Caenorhabditis elegans neural development. <b>1999</b> , 8, 2397-406	46
759	alpha-bungarotoxin receptors contain alpha7 subunits in two different disulfide-bonded conformations. <b>1999</b> , 146, 203-18	48
758	Protein kinase activity and identification of a toxic effector domain of the target of rapamycin TOR proteins in yeast. <b>1999</b> , 10, 2531-46	68
757	Role of the cysteine-rich domain of the t-SNARE component, SYNDET, in membrane binding and subcellular localization. <b>1999</b> , 274, 9053-60	39
756	SPI-B activates transcription via a unique proline, serine, and threonine domain and exhibits DNA binding affinity differences from PU.1. <b>1999</b> , 274, 11115-24	42
755	Cellular dysfunction of LQT5-minK mutants: abnormalities of IKs, IKr and trafficking in long QT syndrome. <b>1999</b> , 8, 1499-507	149
754	Antizyme2 is a negative regulator of ornithine decarboxylase and polyamine transport. <b>1999</b> , 274, 26425-30	60
753	In vivo mitochondrial import. A comparison of leader sequence charge and structural relationships with the in vitro model resulting in evidence for co-translational import. <b>1999</b> , 274, 12685-91	56
75 <sup>2</sup>	Goodpasture disease. Characterization of a single conformational epitope as the target of pathogenic autoantibodies. <b>1999</b> , 274, 25862-8	83
751	Identification of the adenine binding site of the human A1 adenosine receptor. <b>1999</b> , 274, 3617-21	57

## [1999-1999]

750	based on the structure of thermophilic Hydrogenobacter thermophilus cytochrome c(552). <b>1999</b> , 274, 37533-7	59
749	Functional analysis of a mutation occurring between the two in-frame AUG codons of human angiotensinogen. <b>1999</b> , 274, 35749-55	11
748	UV irradiation activates JNK and increases alphal(I) collagen gene expression in rat hepatic stellate cells. <b>1999</b> , 274, 158-64	60
747	BiP and immunoglobulin light chain cooperate to control the folding of heavy chain and ensure the fidelity of immunoglobulin assembly. <b>1999</b> , 10, 2209-19	160
746	Regions of the pea Lhcb1*4 promoter necessary for blue-light regulation in transgenic Arabidopsis. <b>1999</b> , 120, 747-56	21
745	Alternative function of a protein kinase homology domain in 2M5Mbligoadenylate dependent RNase L. <b>1999</b> , 27, 439-45	52
744	Transcriptional inhibition of the operon for the spermidine uptake system by the substrate-binding protein PotD. <b>1999</b> , 274, 1942-8	32
743	Adherence of Borrelia burgdorferi. Identification of critical lysine residues in DbpA required for decorin binding. <b>1999</b> , 274, 26272-8	42
742	Internalization and recycling pathways of the thyrotropin receptor. <b>1999</b> , 13, 1751-65	64
741	Structural interpretation of site-directed mutagenesis and specificity of the catalytic subunit of protein kinase CK2 using comparative modelling. <b>1999</b> , 12, 119-27	14
740	A mutation linked with BartterMsyndrome locks Kir 1.1a (ROMK1) channels in a closed state. <b>1999</b> , 114, 685-700	42
739	Structural and functional analysis of a novel coiled-coil protein involved in Ypt6 GTPase-regulated protein transport in yeast. <b>1999</b> , 10, 63-75	81
738	The tyrosines in the bidentate motif of the env-sea oncoprotein are essential for cell transformation and are binding sites for Grb2 and the tyrosine phosphatase SHP-2. <b>1999</b> , 274, 7583-90	21
737	Structural features of LIM kinase that control effects on the actin cytoskeleton. <b>1999</b> , 274, 11352-61	67
736	Regulation of NF-kappaB RelA phosphorylation and transcriptional activity by p21(ras) and protein kinase Czeta in primary endothelial cells. <b>1999</b> , 274, 13594-603	163
735	Critical factors in basal cell adhesion molecule/lutheran-mediated adhesion to laminin. <b>1999</b> , 274, 728-34	67
734	Induction of coproporphyrinogen oxidase in Chlamydomonas chloroplasts occurs via transcriptional regulation of Cpx1 mediated by copper response elements and increased translation from a copper deficiency-specific form of the transcript. <b>1999</b> , 274, 14444-54	39
733	Hyperphosphorylation of the retinoid X receptor alpha by activated c-Jun NH2-terminal kinases. <b>1999</b> , 274, 18932-41	71

732	Deletions or specific substitutions of a few residues in the NH(2)-terminal region (Ala(3) to Thr(9)) of sarcoplasmic reticulum Ca(2+)-ATPase cause inactivation and rapid degradation of the enzyme expressed in COS-1 cells. <b>1999</b> , 274, 23910-5	24
731	Developmental regulation of the kappa locus involves both positive and negative sequence elements in the 3Menhancer that affect synergy with the intron enhancer. <b>1999</b> , 274, 3285-93	19
730	Characterization of the fibronectin binding motif for a unique mycobacterial fibronectin attachment protein, FAP. <b>1999</b> , 274, 4521-6	47
729	Conformational changes in tertiary structure near the ligand binding site of an integrin I domain. <b>1999</b> , 96, 2215-20	127
728	Alternative splicing of exon 17 and a missense mutation in exon 20 of the insulin receptor gene in two brothers with a novel syndrome of insulin resistance (congenital fiber-type disproportion myopathy). <b>1999</b> , 52, 211-20	8
727	Hereditary pancreatitis-associated mutation asn(21)> ile stabilizes rat trypsinogen in vitro. <b>1999</b> , 274, 29699-704	34
726	Identification of amino acid residues responsible for the pyrimidine and purine nucleoside specificities of human concentrative Na(+) nucleoside cotransporters hCNT1 and hCNT2. <b>1999</b> , 274, 24475-84	70
725	A mutation in the MSH6 subunit of the Saccharomyces cerevisiae MSH2-MSH6 complex disrupts mismatch recognition. <b>1999</b> , 274, 16115-25	75
724	Interaction of the nuclear protein CBF1 with the kappaB site of the IL-6 gene promoter. <b>1999</b> , 27, 2785-91	32
723	A Val 677 activating mutation of the thyrotropin receptor in a Hfthle cell thyroid carcinoma associated with thyrotoxicosis. <b>1999</b> , 9, 13-7	60
722	Recombinant simian immunodeficiency virus expressing green fluorescent protein identifies infected cells in rhesus monkeys. <b>1999</b> , 15, 11-21	32
721	Agonist-dependent up-regulation of human somatostatin receptor type 1 requires molecular signals in the cytoplasmic C-tail. <b>1999</b> , 274, 24550-8	38
720	The specificity of TIMP-2 for matrix metalloproteinases can be modified by single amino acid mutations. <b>1999</b> , 274, 20391-6	63
719	Rational design of a scytalone dehydratase-like enzyme using a structurally homologous protein scaffold. <b>1999</b> , 96, 3568-71	29
718	L-selectin-mediated leukocyte adhesion in vivo: microvillous distribution determines tethering efficiency, but not rolling velocity. <b>1999</b> , 189, 37-50	105
717	Ded1p, a DEAD-box protein required for translation initiation in Saccharomyces cerevisiae, is an RNA helicase. <b>1999</b> , 274, 17677-83	156
716	Activation of the unfolded protein response pathway induces human asparagine synthetase gene expression. <b>1999</b> , 274, 31139-44	59
715	HIV-1 Gag shares a signature motif with annexin (Anx7), which is required for virus replication. <b>1999</b> , 96, 2704-9	5

714	Detailed architecture of the barley chloroplast psbD-psbC blue light-responsive promoter. <b>1999</b> , 274, 4684-92	45
713	Sequences required for induction of neurotensin receptor gene expression during neuronal differentiation of N1E-115 neuroblastoma cells. <b>1999</b> , 274, 30066-79	8
712	The retinal rod Na(+)/Ca(2+),K(+) exchanger contains a noncleaved signal sequence required for translocation of the N terminus. <b>1999</b> , 274, 38177-82	6
711	Connexin-43 hemichannels opened by metabolic inhibition. <b>1999</b> , 274, 236-40	213
710	A novel human STE20-related protein kinase, HGK, that specifically activates the c-Jun N-terminal kinase signaling pathway. <b>1999</b> , 274, 2118-25	134
709	Topology of the membrane domain of human erythrocyte anion exchange protein, AE1. <b>1999</b> , 274, 6626-33	86
708	Identification of three distinct receptor binding sites of murine interleukin-11. <b>1999</b> , 274, 5755-61	51
707	Protein kinase A phosphorylation alters Kvbeta1.3 subunit-mediated inactivation of the Kv1.5 potassium channel. <b>1999</b> , 274, 13928-32	60
706	Regulation of tissue plasminogen activator activity by cells. Domains responsible for binding and mechanism of stimulation. <b>1999</b> , 274, 12414-22	23
705	Agonists cause nuclear translocation of phosphatidylinositol 3-kinase gamma. A Gbetagamma-dependent pathway that requires the p110gamma amino terminus. <b>1999</b> , 274, 27943-7	52
704	An atypical mitogen-activated protein kinase (MAPK) homologue expressed in gametocytes of the human malaria parasite Plasmodium falciparum. Identification of a MAPK signature. <b>1999</b> , 274, 29912-20	89
703	Membrane type 4 matrix metalloproteinase (MT4-MMP, MMP-17) is a glycosylphosphatidylinositol-anchored proteinase. <b>1999</b> , 274, 34260-6	130
702	A mutant form of human protein farnesyltransferase exhibits increased resistance to farnesyltransferase inhibitors. <b>1999</b> , 274, 27010-7	35
701	Identification of residues within the 727-767 segment of human complement component C3 important for its interaction with factor H and with complement receptor 1 (CR1, CD35). <b>1999</b> , 274, 5120-30	43
700	Inositol 1,4,5-trisphosphate receptor down-regulation is activated directly by inositol 1,4,5-trisphosphate binding. Studies with binding-defective mutant receptors. <b>1999</b> , 274, 3476-84	35
699	Characterization of Raf-1 activation in mitosis. <b>1999</b> , 274, 4430-9	35
698	The leucine-based sorting motifs in the cytoplasmic domain of the invariant chain are recognized by the clathrin adaptors AP1 and AP2 and their medium chains. <b>1999</b> , 274, 36153-8	83
697	Agonist-dependent desensitization of the kappa opioid receptor by G protein receptor kinase and beta-arrestin. <b>1999</b> , 274, 23802-7	66

696	Characterization of the heparan sulfate and chondroitin sulfate assembly sites in CD44. <b>1999</b> , 274, 2511-7	56
695	Characterization of the murine A1 adenosine receptor promoter, potent regulation by GATA-4 and Nkx2.5. <b>1999</b> , 274, 14204-9	39
694	Antichymotrypsin interaction with chymotrypsin. Intermediates on the way to inhibited complex formation. <b>1999</b> , 274, 17733-41	11
693	Binding of correolide to K(v)1 family potassium channels. Mapping the domains of high affinity interaction. <b>1999</b> , 274, 25237-44	47
692	Scanning cysteine accessibility of EmrE, an H+-coupled multidrug transporter from Escherichia coli, reveals a hydrophobic pathway for solutes. <b>1999</b> , 274, 19480-6	85
691	In vivo characterization of a thioredoxin h target protein defines a new peroxiredoxin family. <b>1999</b> , 274, 19714-22	194
690	Pleckstrin induces cytoskeletal reorganization via a Rac-dependent pathway. <b>1999</b> , 274, 28730-5	34
689	Identification of a talin-binding site in the integrin beta(3) subunit distinct from the NPLY regulatory motif of post-ligand binding functions. The talin n-terminal head domain interacts with the membrane-proximal region of the beta(3) cytoplasmic tail. <b>1999</b> , 274, 28575-83	71
688	Structure/function analysis of human cystatin SN and comparison of the cysteine proteinase inhibitory profiles of human cystatins C and SN. <b>1999</b> , 78, 1401-9	13
687	Regulation of bone morphogenetic protein activity by pro domains and proprotein convertases. <b>1999</b> , 144, 139-49	258
686	PU.1 and USF are required for macrophage-specific mannose receptor promoter activity. <b>1999</b> , 274, 9098-107	24
685	Two novel Krppel-associated box-containing zinc-finger proteins, KRAZ1 and KRAZ2, repress transcription through functional interaction with the corepressor KAP-1 (TIF1beta/KRIP-1). <b>1999</b> , 274, 16412-22	76
684	MEK kinase 3 directly activates MKK6 and MKK7, specific activators of the p38 and c-Jun NH2-terminal kinases. <b>1999</b> , 274, 16604-10	76
683	Bidirectional transmembrane modulation of integrin alphaIIbbeta3 conformations. <b>1999</b> , 274, 12945-9	57
682	Conformational flexibility at the substrate binding site in the lactose permease of Escherichia coli. <b>1999</b> , 96, 11178-82	22
681	Assembly line enzymology by multimodular nonribosomal peptide synthetases: the thioesterase domain of E. coli EntF catalyzes both elongation and cyclolactonization. <b>1999</b> , 6, 385-400	138
680	In vivo processing and antibiotic activity of microcin B17 analogs with varying ring content and altered bisheterocyclic sites. <b>1999</b> , 6, 305-18	49
679	Mutational analysis of active-site residues of the enterococcal D-ala-D-Ala dipeptidase VanX and comparison with Escherichia coli D-ala-D-Ala ligase and D-ala-D-Ala carboxypeptidase VanY. <b>1999</b> , 6, 177-87	34

678	A novel P0 glycoprotein transgene activates expression of lacZ in myelin-forming Schwann cells. <b>1999</b> , 11, 1577-86	51
677	Stability of the Listeria monocytogenes ActA protein in mammalian cells is regulated by the N-end rule pathway. <b>1999</b> , 1, 249-57	23
676	Definition of receptor binding sites on human interleukin-11 by molecular modeling-guided mutagenesis. <b>1999</b> , 265, 645-55	21
675	Functional consequences of mutations in the conserved Mignature sequenceMof the ATP-binding-cassette protein MalK. <b>1999</b> , 266, 420-30	64
674	Highly sensitive and species-specific assay for quantification of human transgene expression levels. <b>1999</b> , 5, 334-9	4
673	Transient transcriptional activation of the Incl1 plasmid anti-restriction gene (ardA) and SOS inhibition gene (psiB) early in conjugating recipient bacteria. <b>1999</b> , 31, 133-42	48
672	Mutagenesis of the Neisseria gonorrhoeae porin reduces invasion in epithelial cells and enhances phagocyte responsiveness. <b>1999</b> , 31, 903-13	49
671	The human cytomegalovirus ER resident glycoprotein UL148 activates the unfolded protein response.	2
670	Barcoded Rational AAV Vector Evolution enables systematicin vivomapping of peptide binding motifs.	1
669	The yeast Art1 arrestin domain contains disordered insertions that regulate its localization and activity.	1
668	A chemical counterpunch: Chromobacterium violaceum ATCC31532 produces violacein in response to translation-inhibiting antibiotics.	1
667	Fitness barriers limit reversion of a proofreading-deficient coronavirus.	1
666	Cis-regulatory basis of sister cell type divergence in the vertebrate retina.	1
665	Functional Analysis of FRIGIDA Using Naturally Occurring Variation inArabidopsis thaliana.	1
664	Redundancy and specificity of type VI secretion vgrG loci in antibacterial activity of Agrobacterium tumefaciens 1D1609 strain.	1
663	Site-specific Mutagenesis by Overlap Extension. <b>2006</b> , 2006,	3
662	Crystal structure of peroxiredoxin 3 from and its implications for scavenging peroxides and nitric oxide. <b>2018</b> , 5, 82-92	6
661	Enoyl-CoA hydratase and isomerase form a superfamily with a common active-site glutamate residue. <b>1995</b> , 228, 68-73	72

660	Site-directed mutagenesis of the redox-active cysteines of Trypanosoma cruzi trypanothione reductase. <b>1995</b> , 228, 745-52	60
659	Lipase of Staphylococcus hyicus: Analysis of the catalytic triad by site-directed mutagenesis. <b>1992</b> , 100, 249-254	8
658	Negative charges in the DIII-DIV linker of human skeletal muscle Na+ channels regulate deactivation gating. <b>2003</b> , 548, 85-96	10
657	A lactococcal expression system for engineered nisins. <b>1992</b> , 58, 3683-93	69
656	Functional analysis of the threonine- and serine-rich Gp-I domain of glucoamylase I from Aspergillus awamori var. kawachi. <b>1995</b> , 61, 2885-90	21
655	Use of a modified Bacteroides-Prevotella shuttle vector to transfer a reconstructed beta-1,4-D-endoglucanase gene into Bacteroides uniformis and Prevotella ruminicola B(1)4. <b>1996</b> , 62, 196-202	91
654	A Bacillus thuringiensis insecticidal crystal protein with a high activity against members of the family Noctuidae. <b>1996</b> , 62, 80-6	104
653	Development of an arabinose-fermenting Zymomonas mobilis strain by metabolic pathway engineering. <b>1996</b> , 62, 4465-70	151
652	The carboxy-terminal portion of the aflatoxin pathway regulatory protein AFLR of Aspergillus parasiticus activates GAL1::lacZ gene expression in Saccharomyces cerevisiae. <b>1999</b> , 65, 2508-12	34
651	Characterization of a novel chromosomal virulence locus involved in expression of a major surface flagellar sheath antigen of the fish pathogen Vibrio anguillarum. <b>1993</b> , 61, 2434-44	45
650	Assignment of functional domains involved in ADP-ribosylation and B-oligomer binding within the carboxyl terminus of the S1 subunit of pertussis toxin. <b>1994</b> , 62, 2071-8	15
649	Expression of recombinant exoenzyme S of Pseudomonas aeruginosa. <b>1995</b> , 63, 1-8	48
648	The N-terminal half of membrane CD14 is a functional cellular lipopolysaccharide receptor. <b>1996</b> , 64, 653-6	35
647	Analysis of the superantigenic activity of mutant and allelic forms of streptococcal pyrogenic exotoxin A. <b>1996</b> , 64, 861-9	59
646	Elimination of the listeriolysin O-directed immune response by conservative alteration of the immunodominant listeriolysin O amino acid 91 to 99 epitope. <b>1996</b> , 64, 3728-35	8
645	Clostridium septicum alpha-toxin is proteolytically activated by furin. <b>1997</b> , 65, 4130-4	58
644	Expression of the superantigen Mycoplasma arthritidis mitogen in Escherichia coli and characterization of the recombinant protein. <b>1997</b> , 65, 4965-71	9
643	Localization by site-directed mutagenesis of the site in human complement factor H that binds to Streptococcus pyogenes M protein. <b>1997</b> , 65, 484-7	39

642	Keratinocyte proinflammatory responses to adherent and nonadherent group A streptococci. <b>1997</b> , 65, 2119-26	38
641	Modulation of enzymatic activity and biological function of Listeria monocytogenes broad-range phospholipase C by amino acid substitutions and by replacement with the Bacillus cereus ortholog. <b>1998</b> , 66, 4823-31	27
640	Disruption of an internal membrane-spanning region in Shiga toxin 1 reduces cytotoxicity. <b>1998</b> , 66, 5252-9	25
639	Existing antilisterial immunity does not inhibit the development of a Listeria monocytogenes-specific primary cytotoxic T-lymphocyte response. <b>1999</b> , 67, 253-8	26
638	Quorum sensing-dependent regulation and blockade of exoprotease production in Aeromonas hydrophila. <b>1999</b> , 67, 5192-9	206
637	Intracellular delivery of a cytolytic T-lymphocyte epitope peptide by pertussis toxin to major histocompatibility complex class I without involvement of the cytosolic class I antigen processing pathway. <b>1999</b> , 67, 602-7	34
636	Characterization of the avian pathogenic Escherichia coli hemagglutinin Tsh, a member of the immunoglobulin A protease-type family of autotransporters. <b>1999</b> , 67, 772-81	70
635	Requirement of MrpH for mannose-resistant Proteus-like fimbria-mediated hemagglutination by Proteus mirabilis. <b>1999</b> , 67, 2822-33	51
634	Molecular characterization of the hemin uptake locus (hmu) from Yersinia pestis and analysis of hmu mutants for hemin and hemoprotein utilization. <b>1999</b> , 67, 3879-92	121
633	The EspD protein of enterohemorrhagic Escherichia coli is required for the formation of bacterial surface appendages and is incorporated in the cytoplasmic membranes of target cells. <b>1999</b> , 67, 4834-42	68
632	cis-acting sequences required for NtcB-dependent, nitrite-responsive positive regulation of the nitrate assimilation operon in the cyanobacterium Synechococcus sp. strain PCC 7942. <b>1998</b> , 180, 4080-8	43
631	Oligohistidine tag mutagenesis of the lambda holin gene. <b>1998</b> , 180, 4199-211	25
630	Pas, a novel protein required for protein secretion and attaching and effacing activities of enterohemorrhagic Escherichia coli. <b>1998</b> , 180, 4370-9	32
629	Two amino acid residues of transposase contributing to differential transposability of IS1 elements in Escherichia coli. <b>1998</b> , 180, 5279-83	4
628	Domain structure of the ATP-binding-cassette protein MalK of salmonella typhimurium as assessed by coexpressed half molecules and LacKMMalK chimeras. <b>1998</b> , 180, 5299-305	10
627	Examination of the role of DNA polymerase proofreading in the mutator effect of miscoding tRNAs. <b>1998</b> , 180, 5712-7	27
626	Topological analysis of the aerobic membrane-bound formate dehydrogenase of Escherichia coli. <b>1998</b> , 180, 6625-34	41
625	Intracellular immunization of prokaryotic cells against a bacteriotoxin. <b>1998</b> , 180, 514-8	6

624	Roles of the catalytic domain and two cellulose binding domains of Thermomonospora fusca E4 in cellulose hydrolysis. <b>1998</b> , 180, 1709-14	172
623	SSB, encoding a ribosome-associated chaperone, is coordinately regulated with ribosomal protein genes. <b>1999</b> , 181, 3136-43	37
622	Metabolic imbalance and sporulation in an isocitrate dehydrogenase mutant of Bacillus subtilis. <b>1999</b> , 181, 3382-91	33
621	Transcriptional regulation of the esp genes of enterohemorrhagic Escherichia coli. <b>1999</b> , 181, 3409-18	92
620	Structure-function analysis of XcpP, a component involved in general secretory pathway-dependent protein secretion in Pseudomonas aeruginosa. <b>1999</b> , 181, 4012-9	54
619	Role of TolR N-terminal, central, and C-terminal domains in dimerization and interaction with TolA and tolQ. <b>1999</b> , 181, 4476-84	53
618	A megaplasmid-borne anaerobic ribonucleotide reductase in Alcaligenes eutrophus H16. <b>1999</b> , 181, 4919-28	12
617	Translation of two nested genes in bacteriophage P4 controls immunity-specific transcription termination. <b>1999</b> , 181, 5225-33	13
616	A 5MRNA stem-loop participates in the transcription attenuation mechanism that controls expression of the Bacillus subtilis trpEDCFBA operon. <b>1999</b> , 181, 5742-9	26
615	cis- and trans-acting elements involved in regulation of aniA, the gene encoding the major anaerobically induced outer membrane protein in Neisseria gonorrhoeae. <b>1999</b> , 181, 541-51	64
614	Role of glycosylation at Ser63 in production of soluble pilin in pathogenic Neisseria. <b>1999</b> , 181, 656-61	49
613	A second operator is involved in Pseudomonas aeruginosa elastase (lasB) activation. <b>1999</b> , 181, 6264-70	34
612	Characterization of a HankMtype serine/threonine kinase and serine/threonine phosphoprotein phosphatase in Pseudomonas aeruginosa. <b>1999</b> , 181, 6615-22	46
611	Characterization of the dimerization domain in BglG, an RNA-binding transcriptional antiterminator from Escherichia coli. <b>1999</b> , 181, 1755-66	22
610	Quantitation of enteroviral RNA by competitive polymerase chain reaction. <b>1993</b> , 31, 2634-40	31
609	Comparative study of different standardization concepts in quantitative competitive reverse transcription-PCR assays. <b>1998</b> , 36, 628-33	49
608	Detection and quantification of Plasmodium falciparum in blood samples using quantitative nucleic acid sequence-based amplification. <b>2000</b> , 38, 4072-5	78
607	Strain-specific neutralizing determinant in the transmembrane protein of simian immunodeficiency virus. <b>1991</b> , 65, 2010-8	40

606	Complex determinants of macrophage tropism in env of simian immunodeficiency virus. <b>1992</b> , 66, 2067-75	182
605	Reovirus polypeptide sigma 3 and N-terminal myristoylation of polypeptide mu 1 are required for site-specific cleavage to mu 1C in transfected cells. <b>1992</b> , 66, 2180-6	68
604	A block in full-length transcript maturation in cells nonpermissive for B19 parvovirus. <b>1992</b> , 66, 4686-92	82
603	Nuclear factors that bind two regions important to transcriptional activity of the simian immunodeficiency virus long terminal repeat. <b>1992</b> , 66, 5216-23	11
602	The conserved N-terminal region of Sendai virus nucleocapsid protein NP is required for nucleocapsid assembly. <b>1993</b> , 67, 5803-12	91
601	Human immunodeficiency virus type 1 pol gene mutations in an AIDS patient treated with multiple antiretroviral drugs. <b>1993</b> , 67, 7271-5	30
600	Regulation of expression of mouse mammary tumor virus through sequences located in the hormone response element: involvement of cell-cell contact and a negative regulatory factor. <b>1993</b> , 67, 813-21	23
599	Translation of equine infectious anemia virus bicistronic tat-rev mRNA requires leaky ribosome scanning of the tat CTG initiation codon. <b>1993</b> , 67, 1433-40	43
598	Requirements for incorporation of Pr160gag-pol from human immunodeficiency virus type 1 into virus-like particles. <b>1993</b> , 67, 2266-75	140
597	The NF-kappa B binding site is necessary for efficient replication of simian immunodeficiency virus of macaques in primary macrophages but not in T cells in vitro. <b>1993</b> , 67, 2908-13	22
596	Nonstructural protein 3 of the hepatitis C virus encodes a serine-type proteinase required for cleavage at the NS3/4 and NS4/5 junctions. <b>1993</b> , 67, 3835-44	354
595	Functional domains of the simian foamy virus type 1 transcriptional transactivator (Taf). <b>1993</b> , 67, 4598-604	20
594	Two distinct proteinase activities required for the processing of a putative nonstructural precursor protein of hepatitis C virus. <b>1993</b> , 67, 4665-75	370
593	Presentation of native epitopes in the V1/V2 and V3 regions of human immunodeficiency virus type 1 gp120 by fusion glycoproteins containing isolated gp120 domains. <b>1994</b> , 68, 400-10	78
592	Efficient particle formation can occur if the matrix domain of human immunodeficiency virus type 1 Gag is substituted by a myristylation signal. <b>1994</b> , 68, 6644-54	77
591	The transcriptional regulator YY1 binds to the 5 <b>M</b> terminal region of B19 parvovirus and regulates P6 promoter activity. <b>1994</b> , 68, 7159-68	32
590	A point mutation in the env gene of a murine leukemia virus induces syncytium formation and neurologic disease. <b>1994</b> , 68, 7516-24	42
589	A putative nucleoside triphosphate-binding domain in the nonstructural protein of B19 parvovirus is required for cytotoxicity. <b>1994</b> , 68, 8443-6	70

588	Human immunodeficiency virus env expression becomes Rev-independent if the env region is not defined as an intron. <b>1994</b> , 68, 951-8	62
587	Optimal infectivity in vitro of human immunodeficiency virus type 1 requires an intact nef gene. <b>1994</b> , 68, 2906-14	306
586	Native oligomeric human immunodeficiency virus type 1 envelope glycoprotein elicits diverse monoclonal antibody reactivities. <b>1994</b> , 68, 3015-26	194
585	The "V3" domain is a determinant of simian immunodeficiency virus cell tropism. <b>1994</b> , 68, 3682-92	47
584	Interacting domains of E2F1, DP1, and the adenovirus E4 protein. <b>1994</b> , 68, 4213-9	27
583	Determinants essential for the transmissible gastroenteritis virus-receptor interaction reside within a domain of aminopeptidase-N that is distinct from the enzymatic site. <b>1994</b> , 68, 5216-24	91
582	Effects of natural sequence variation on recognition by monoclonal antibodies neutralize simian immunodeficiency virus infectivity. <b>1994</b> , 68, 5395-402	39
581	ATPase and GTPase activities associated with Semliki Forest virus nonstructural protein nsP2. <b>1994</b> , 68, 5804-10	117
580	Substrate determinants for cleavage in cis and in trans by the hepatitis C virus NS3 proteinase. <b>1995</b> , 69, 198-205	86
579	Characterization of deletion mutations in the capsid region of human immunodeficiency virus type 1 that affect particle formation and Gag-Pol precursor incorporation. <b>1995</b> , 69, 6106-14	93
578	A poliovirus 2A(pro) mutant unable to cleave 3CD shows inefficient viral protein synthesis and transactivation defects. <b>1995</b> , 69, 6280-8	27
577	Mutagenic analysis of human immunodeficiency virus type 1 Vpr: role of a predicted N-terminal alpha-helical structure in Vpr nuclear localization and virion incorporation. <b>1995</b> , 69, 7032-44	158
576	Differences in the role of the cytoplasmic domain of human parainfluenza virus fusion proteins. <b>1995</b> , 69, 7045-53	42
575	Replication efficiency of bovine papillomavirus type 1 DNA depends on cis-acting sequences distinct from the replication origin. <b>1995</b> , 69, 7682-7	3
574	Envelopment of varicella-zoster virus: targeting of viral glycoproteins to the trans-Golgi network. <b>1995</b> , 69, 7951-9	96
573	Characterization of neutralization epitopes in the V2 region of human immunodeficiency virus type 1 gp120: role of glycosylation in the correct folding of the V1/V2 domain. <b>1995</b> , 69, 2271-8	69
572	Functional and structural interactions between measles virus hemagglutinin and CD46. <b>1995</b> , 69, 3341-9	58
571	Host cell proteins binding to domain IV of the 5Mnoncoding region of poliovirus RNA. <b>1995</b> , 69, 4381-9	34

## (1996-1995)

570	Proteins and cis-acting elements associated with transactivation of the varicella-zoster virus (VZV) immediate-early gene 62 promoter by VZV open reading frame 10 protein. <b>1995</b> , 69, 4693-701	50
569	Analysis of the subgroup A avian sarcoma and leukosis virus receptor: the 40-residue, cysteine-rich, low-density lipoprotein receptor repeat motif of Tva is sufficient to mediate viral entry. <b>1995</b> , 69, 4847-53	61
568	Identification of the active-site residues of the L proteinase of foot-and-mouth disease virus. <b>1995</b> , 69, 4950-6	61
567	Transcriptional enhancer activity of hr5 requires dual-palindrome half sites that mediate binding of a dimeric form of the baculovirus transregulator IE1. <b>1995</b> , 69, 5368-75	86
566	Analysis of the murine ecotropic leukemia virus receptor reveals a common biochemical determinant on diverse cell surface receptors that is essential to retrovirus entry. <b>1996</b> , 70, 321-6	30
565	A replication function associated with the activation domain of the Epstein-Barr virus Zta transactivator. <b>1996</b> , 70, 8340-7	86
564	Mutation of lysine residues in the nucleotide binding segments of the poliovirus RNA-dependent RNA polymerase. <b>1996</b> , 70, 8564-70	19
563	Identification of protein regions involved in the interaction of human respiratory syncytial virus phosphoprotein and nucleoprotein: significance for nucleocapsid assembly and formation of cytoplasmic inclusions. <b>1996</b> , 70, 801-8	78
562	Polyomavirus middle-T antigen associates with the kinase domain of Src-related tyrosine kinases. <b>1996</b> , 70, 1323-30	26
561	Glycoprotein B of herpes simplex virus type 1 oligomerizes through the intermolecular interaction of a 28-amino-acid domain. <b>1996</b> , 70, 1640-50	18
560	Polyprotein processing in Southampton virus: identification of 3C-like protease cleavage sites by in vitro mutagenesis. <b>1996</b> , 70, 2605-10	92
559	Biophysical characterization of recombinant proteins expressing the leucine zipper-like domain of the human immunodeficiency virus type 1 transmembrane protein gp41. <b>1996</b> , 70, 2982-91	47
558	Cell entry by measles virus: long hybrid receptors uncouple binding from membrane fusion. <b>1996</b> , 70, 3716-23	59
557	Functional domains of Moloney murine leukemia virus integrase defined by mutation and complementation analysis. <b>1996</b> , 70, 4585-97	43
556	The Sendai paramyxovirus accessory C proteins inhibit viral genome amplification in a promoter-specific fashion. <b>1996</b> , 70, 5067-74	112
555	The variable 3Mends of a human cytomegalovirus oriLyt transcript (SRT) overlap an essential, conserved replicator element. <b>1996</b> , 70, 5272-81	23
554	Functional interaction of paramyxovirus glycoproteins: identification of a domain in Sendai virus HN which promotes cell fusion. <b>1996</b> , 70, 6112-8	122
553	Inhibitors of human immunodeficiency virus type 1 zinc fingers prevent normal processing of gag precursors and result in the release of noninfectious virus particles. <b>1996</b> , 70, 6180-9	64

552	Functional interaction between the SH2 domain of Fyn and tyrosine 324 of hamster polyomavirus middle-T antigen. <b>1997</b> , 71, 199-206	12
551	Identification of a cytoplasmic Tyr-X-X-Leu motif essential for down regulation of the human cell receptor CD46 in persistent measles virus infection. <b>1997</b> , 71, 766-70	31
550	The cytopathicity of a simian immunodeficiency virus Mne variant is determined by mutations in Gag and Env. <b>1997</b> , 71, 7629-39	25
549	Specific N-linked and O-linked glycosylation modifications in the envelope V1 domain of simian immunodeficiency virus variants that evolve in the host alter recognition by neutralizing antibodies. <b>1997</b> , 71, 7719-27	171
548	Identification of envelope protein residues required for the expanded host range of 10A1 murine leukemia virus. <b>1997</b> , 71, 8103-8	42
547	Three distinct envelope domains, variably present in subgroup B feline leukemia virus recombinants, mediate Pit1 and Pit2 receptor recognition. <b>1997</b> , 71, 8116-23	60
546	Biochemical properties of hepatitis C virus NS5B RNA-dependent RNA polymerase and identification of amino acid sequence motifs essential for enzymatic activity. <b>1997</b> , 71, 8416-28	426
545	E1A 12S and 13S of the transformation-defective adenovirus type 12 strain CS-1 inactivate proteins of the RB family, permitting transactivation of the E2F-dependent promoter. <b>1997</b> , 71, 9538-48	11
544	Inhibition of Sendai virus genome replication due to promoter-increased selectivity: a possible role for the accessory C proteins. <b>1997</b> , 71, 9588-99	78
543	Second-site proviral enhancer alterations in lymphomas induced by enhancer mutants of SL3-3 murine leukemia virus: negative effect of nuclear factor 1 binding site. <b>1997</b> , 71, 1196-206	26
542	Mutational analysis of the adeno-associated virus Rep68 protein: identification of critical residues necessary for site-specific endonuclease activity. <b>1997</b> , 71, 2722-30	44
541	Functional analysis of the cytoplasmic tail of Moloney murine leukemia virus envelope protein. <b>1997</b> , 71, 3613-9	82
540	Putative alpha-helical structures in the human immunodeficiency virus type 1 Vpu protein and CD4 are involved in binding and degradation of the CD4 molecule. <b>1997</b> , 71, 4452-60	45
539	A role for natural simian immunodeficiency virus and human immunodeficiency virus type 1 nef alleles in lymphocyte activation. <b>1997</b> , 71, 6094-9	153
538	Nuclear import, virion incorporation, and cell cycle arrest/differentiation are mediated by distinct functional domains of human immunodeficiency virus type 1 Vpr. <b>1997</b> , 71, 6339-47	151
537	Mutational analysis of the adeno-associated virus type 2 Rep68 protein helicase motifs. <b>1997</b> , 71, 6996-7004	54
536	Infectious particles derived from Semliki Forest virus vectors encoding murine leukemia virus envelopes. <b>1997</b> , 71, 7061-7	17
535	Characterization of cis-acting and NS1 protein-responsive elements in the p6 promoter of parvovirus B19. <b>1998</b> , 72, 609-16	58

534	In vivo translation of the triple gene block of potato virus X requires two subgenomic mRNAs. <b>1998</b> , 72, 8316-20	80
533	Role of variable regions A and B in receptor binding domain of amphotropic murine leukemia virus envelope protein. <b>1998</b> , 72, 9101-8	28
532	Characterization of a baculovirus-encoded ATP-dependent DNA ligase. 1998, 72, 9142-9	22
531	Mutational analysis of the human immunodeficiency virus type 1 Vpu transmembrane domain that promotes the enhanced release of virus-like particles from the plasma membrane of mammalian cells. <b>1998</b> , 72, 1270-9	56
530	Coding sequences enhance internal initiation of translation by hepatitis A virus RNA in vitro. <b>1998</b> , 72, 3571-7	23
529	Herpes simplex virus type 1 glycoprotein B requires a cysteine residue at position 633 for folding, processing, and incorporation into mature infectious virus particles. <b>1998</b> , 72, 4940-9	18
528	Human cytomegalovirus oriLyt sequence requirements. <b>1998</b> , 72, 4989-96	30
527	Role of Rta in the translation of bicistronic BZLF1 of Epstein-Barr virus. <b>1998</b> , 72, 5128-36	35
526	Characterization of the proline-rich region of murine leukemia virus envelope protein. <b>1998</b> , 72, 5383-91	54
525	Incorporation of the green fluorescent protein into the herpes simplex virus type 1 capsid. <b>1998</b> , 72, 7563-8	232
524	Sequence-specific and/or stereospecific constraints of the U3 enhancer elements of MCF 247-W are important for pathogenicity. <b>1999</b> , 73, 234-41	6
523	The human immunodeficiency virus type 1 nef gene can to a large extent replace simian immunodeficiency virus nef in vivo. <b>1999</b> , 73, 8371-83	37
522	Sendai virus gene start signals are not equivalent in reinitiation capacity: moderation at the fusion protein gene. <b>1999</b> , 73, 9237-46	34
521	Open reading frame 1 of the Norwalk-like virus Camberwell: completion of sequence and expression in mammalian cells. <b>1999</b> , 73, 10531-5	50
520	Poliovirus/Hepatitis C virus (internal ribosomal entry site-core) chimeric viruses: improved growth properties through modification of a proteolytic cleavage site and requirement for core RNA sequences but not for core-related polypeptides. <b>1999</b> , 73, 1546-54	35
519	The hypervariable domain of the murine leukemia virus surface protein tolerates large insertions and deletions, enabling development of a retroviral particle display system. <b>1999</b> , 73, 1802-8	55
518	Analysis of the effects of charge cluster mutations in adeno-associated virus Rep68 protein in vitro. <b>1999</b> , 73, 2084-93	24
517	Characterization of a major neutralizing epitope on human papillomavirus type 16 L1. <b>1999</b> , 73, 4882-9	100

516	Role of naturally occurring basic amino acid substitutions in the human immunodeficiency virus type 1 subtype E envelope V3 loop on viral coreceptor usage and cell tropism. <b>1999</b> , 73, 5520-6	37
515	Induction of AIDS in rhesus monkeys by a recombinant simian immunodeficiency virus expressing nef of human immunodeficiency virus type 1. <b>1999</b> , 73, 5814-25	47
514	Modulation of hepatitis C virus NS5A hyperphosphorylation by nonstructural proteins NS3, NS4A, and NS4B. <b>1999</b> , 73, 7138-46	120
513	Oocyte-specific factors bind a conserved upstream sequence required for mouse zona pellucida promoter activity. <b>1991</b> , 11, 6197-6204	16
512	The cytoplasmic region of the erythropoietin receptor contains nonoverlapping positive and negative growth-regulatory domains. <b>1991</b> , 11, 1980-1987	94
511	Translation initiation factor 5A and its hypusine modification are essential for cell viability in the yeast Saccharomyces cerevisiae. <b>1991</b> , 11, 3105-3114	150
510	PU.1 recruits a second nuclear factor to a site important for immunoglobulin kappa 3Menhancer activity. <b>1992</b> , 12, 368-378	162
509	Regulation of T-cell lymphokine gene transcription by the accessory molecule CD28. <b>1992</b> , 12, 4357-4363	35
508	Selection of optimal kappa B/Rel DNA-binding motifs: interaction of both subunits of NF-kappa B with DNA is required for transcriptional activation. <b>1992</b> , 12, 4412-4421	202
507	Mutated alpha subunit of the Gq protein induces malignant transformation in NIH 3T3 cells. <b>1992</b> , 12, 4687-4693	66
506	A mammary cell-specific enhancer in mouse mammary tumor virus DNA is composed of multiple regulatory elements including binding sites for CTF/NFI and a novel transcription factor, mammary cell-activating factor. <b>1992</b> , 12, 4906-4918	55
505	Functional characterization of the NF-kappa B p65 transcriptional activator and an alternatively spliced derivative. <b>1992</b> , 12, 444-454	109
504	Cell-type-specific expression of the rat thyroperoxidase promoter indicates common mechanisms for thyroid-specific gene expression. <b>1992</b> , 12, 576-588	58
503	Novel DNA-binding proteins regulate intestine-specific transcription of the sucrase-isomaltase gene. <b>1992</b> , 12, 3614-3627	33
502	NF-kappa B subunit-specific regulation of the interleukin-8 promoter. <b>1993</b> , 13, 6137-6146	201
501	PU.1 is a component of a multiprotein complex which binds an essential site in the murine immunoglobulin lambda 2-4 enhancer. <b>1993</b> , 13, 6452-6461	54
500	Dimerization mediated through a leucine zipper activates the oncogenic potential of the met receptor tyrosine kinase. <b>1993</b> , 13, 6711-6722	59
499	Identification of C/EBP basic region residues involved in DNA sequence recognition and half-site spacing preference. <b>1993</b> , 13, 6919-6930	49

498	Identification of a novel interleukin-6 response element containing an Ets-binding site and a CRE-like site in the junB promoter. <b>1993</b> , 13, 3027-3041	49
497	Regulation of the proneural gene achaete by helix-loop-helix proteins. <b>1993</b> , 13, 3514-3521	22
496	Identification of the immunophilins capable of mediating inhibition of signal transduction by cyclosporin A and FK506: roles of calcineurin binding and cellular location. <b>1993</b> , 13, 4760-4769	68
495	Novel members of the mitogen-activated protein kinase activator family in Xenopus laevis. <b>1993</b> , 13, 5738-5748	15
494	Efficient homologous recombination of Ty1 element cDNA when integration is blocked. <b>1994</b> , 14, 6540-6551	64
493	Signal transduction by tumor necrosis factor mediated by JNK protein kinases. <b>1994</b> , 14, 8376-8384	138
492	Induction of the rat prodynorphin gene through Gs-coupled receptors may involve phosphorylation-dependent derepression and activation. <b>1994</b> , 14, 2837-2848	12
491	Analysis of the structural genes encoding M-factor in the fission yeast Schizosaccharomyces pombe: identification of a third gene, mfm3. <b>1994</b> , 14, 3895-3905	26
490	Functional substitution of an essential yeast RNA polymerase subunit by a highly conserved mammalian counterpart. <b>1994</b> , 14, 4155-4159	18
489	C25, an essential RNA polymerase III subunit related to the RNA polymerase II subunit RPB7. <b>1994</b> , 14, 6164-6170	14
488	Structure of REC2, a recombinational repair gene of Ustilago maydis, and its function in homologous recombination between plasmid and chromosomal sequences. <b>1994</b> , 14, 6287-6296	14
487	The essential interaction between yeast mRNA capping enzyme subunits is not required for triphosphatase function in vivo. <b>2000</b> , 20, 9307-16	24
486	Molecular characterization of CCR6: Involvement of multiple domains in ligand binding and receptor signaling. <b>2004</b> , 11, 818	2
485	Molecular regulation of the bovine endothelial cell nitric oxide synthase by transforming growth factor-beta 1. <b>1995</b> , 15, 1255-61	140
484	Apolipoprotein A-IFin. Dominantly inherited hypoalphalipoproteinemia due to a single base substitution in the apolipoprotein A-I gene. <b>1997</b> , 17, 83-90	34
483	Functional effects of protein kinase C activation on the human cardiac Na+ channel. <b>1997</b> , 80, 370-6	81
482	Point mutation causing a single amino acid substitution in the hormone binding domain of the glucocorticoid receptor in familial glucocorticoid resistance. <b>1991</b> , 87, 680-6	266
481	Fish eye syndrome: a molecular defect in the lecithin-cholesterol acyltransferase (LCAT) gene associated with normal alpha-LCAT-specific activity. Implications for classification and prognosis. <b>1993</b> , 92, 479-85	60

480	cAMP responsive element-mediated regulation of the gene transcription of the alpha 1B adrenergic receptor by thyrotropin. <b>1994</b> , 94, 2245-54	16
479	Monocytic cell type-specific transcriptional induction of collagenase. <b>1996</b> , 97, 1890-9	59
478	The double edged sword of the immune response: mutational analysis of a murine anti-pneumococcal, anti-DNA antibody. <b>1996</b> , 97, 2251-9	49
477	A common amino acid polymorphism in insulin receptor substrate-1 causes impaired insulin signaling. Evidence from transfection studies. <b>1996</b> , 97, 2569-75	165
476	Right ventricular outflow tract tachycardia due to a somatic cell mutation in G protein subunitalphai2. <b>1998</b> , 101, 2862-8	65
475	Functional overlap between murine Inpp5b and Ocrl1 may explain why deficiency of the murine ortholog for OCRL1 does not cause Lowe syndrome in mice. <b>1998</b> , 101, 2042-53	136
474	The antithrombotic potential of selective blockade of talin-dependent integrin alpha IIb beta 3 (platelet GPIIb-IIIa) activation. <b>2007</b> , 117, 2250-9	98
473	Laminin receptor initiates bacterial contact with the blood brain barrier in experimental meningitis models. <b>2009</b> , 119, 1638-46	208
472	Mitogen-activated protein kinase inhibits 1,25-dihydroxyvitamin D3-dependent signal transduction by phosphorylating human retinoid X receptor alpha. <b>1999</b> , 103, 1729-35	117
471	Thrombopoietin Production Is Inhibited by a Translational Mechanism. <b>1998</b> , 92, 4023-4030	5
470	Erythropoietin Receptor and STAT5-Specific Pathways Promote SKT6 Cell Hemoglobinization. <b>1998</b> , 92, 1104-1118	4
469	On the Role of the Proform-Conformation for Processing and Intracellular Sorting of Human Cathepsin G. <b>1998</b> , 92, 1415-1422	3
468	A Secreted Proform of Neutrophil Proteinase 3 Regulates the Proliferation of Granulopoietic Progenitor Cells. <b>1999</b> , 93, 849-856	8
467	Contrasting patterns of c-myc and N-myc expression in proliferating, quiescent, and differentiating cells of the embryonic chicken lens. <b>1992</b> , 115, 813-820	24
466	Positioning adjacent pair-rule stripes in the posterior Drosophila embryo. <b>1994</b> , 120, 2945-2955	29
465	Embryonic activation of the myoD gene is regulated by a highly conserved distal control element. <b>1995</b> , 121, 637-649	139
464	Regulation of Spemann organizer formation by the intracellular kinase Xgsk-3. <b>1995</b> , 121, 755-765	184
463	The Drosophila tissue polarity gene inturned acts cell autonomously and encodes a novel protein. <b>1996</b> , 122, 961-969	51

SCL specifies hematopoietic mesoderm in Xenopus embryos. <b>1998</b> , 125, 2611-2620  Function and specificity of LIM domains in Drosophila nervous system and wing development. <b>1998</b> , 125, 3915-3923  The smad5 mutation somitabun blocks Bmp2b signaling during early dorsoventral patterning of the	89
125, 3915-3923  The smad5 mutation somitabun blocks Bmp2b signaling during early dorsoventral patterning of the	64
The smad5 mutation somitabun blocks Bmp2b signaling during early dorsoventral patterning of the	
zebrafish embryo. <b>1999</b> , 126, 2149-2159	149
8 Huckebein repressor activity in Drosophila terminal patterning is mediated by Groucho. <b>1999</b> , 126, 3747-3755	43
Fine-scale transgenic mapping of the MyoD core enhancer: MyoD is regulated by distinct but overlapping mechanisms in myotomal and non-myotomal muscle lineages. <b>1999</b> , 126, 1957-1965	51
Structure-function analysis of the EGF-CFC family member Cripto identifies residues essential for nodal signalling. <b>2001</b> , 128, 4501-4510	49
A study of mesoderm patterning through the analysis of the regulation of Xmyf-5 expression. <b>2002</b> , 129, 2917-2927	32
Stimulation of cell migration by overexpression of focal adhesion kinase and its association with Src and Fyn. <b>1996</b> , 109, 1787-1794	453
Expression and characterization of splice variants of PYK2, a focal adhesion kinase-related protein.  1998, 111, 1981-1991	79
Isolation of the human genes encoding the pyst1 and Pyst2 phosphatases: characterisation of Pyst2 as a cytosolic dual-specificity MAP kinase phosphatase and its catalytic activation by both MAP and SAP kinases. <b>1998</b> , 111, 3389-3399	95
A constitutive region is responsible for nuclear targeting of 4.1R: modulation by alternative sequences results in differential intracellular localization. <b>2000</b> , 113, 2485-2495	22
Coupled transport of p24 family members. 2000, 113, 2507-2516	61
The conserved amphipatic alpha-helical core motif of RARgamma and RARalpha activating domains is indispensable for RA-induced differentiation of F9 cells. <b>2000</b> , 113, 2887-2895	10
CD44-dependent lymphoma cell dissemination: a cell surface CD44 variant, rather than standard CD44, supports in vitro lymphoma cell rolling on hyaluronic acid substrate and its in vivo accumulation in the peripheral lymph nodes. <b>2001</b> , 114, 3463-3477	32
Misfolded growth hormone causes fragmentation of the Golgi apparatus and disrupts endoplasmic reticulum-to-Golgi traffic. <b>2001</b> , 114, 3685-3694	40
Daxx and histone deacetylase II associate with chromatin through an interaction with core histones and the chromatin-associated protein Dek. <b>2002</b> , 115, 3319-3330	191
Membrane topology and mitochondrial targeting of mitofusins, ubiquitous mammalian homologs of the transmembrane GTPase Fzo. <b>2002</b> , 115, 1663-1674	381
	Huckebein repressor activity in Drosophila terminal patterning is mediated by Groucho. 1999, 126, 3747-3755  Fine-scale transgenic mapping of the MyoD core enhancer: MyoD is regulated by distinct but overlapping mechanisms in myotomal and non-myotomal muscle lineages. 1999, 126, 1957-1965  Structure-function analysis of the EGF-CFC family member Cripto identifies residues essential for nodal signalling. 2001, 128, 4501-4510  A study of mesoderm patterning through the analysis of the regulation of Xmyf-5 expression. 2002, 129, 2917-2927  Stimulation of cell migration by overexpression of focal adhesion kinase and its association with Src and Fyn. 1996, 109, 1787-1794  Expression and characterization of splice variants of PYK2, a focal adhesion kinase-related protein. 1998, 111, 1981-1991  Isolation of the human genes encoding the pyst1 and Pyst2 phosphatases: characterisation of Pyst2 as a cytosolic dual-specificity MAP kinase phosphatase and its catalytic activation by both MAP and SAP kinases. 1998, 111, 3389-3399  A constitutive region is responsible for nuclear targeting of 4.1R: modulation by alternative sequences results in differential intracellular localization. 2000, 113, 2485-2495  Coupled transport of p24 family members. 2000, 113, 2507-2516  The conserved amphipatic alpha-helical core motif of RARgamma and RARalpha activating domains is indispensable for RA-induced differentiation of F9 cells. 2000, 113, 2887-2895  CD44-dependent lymphoma cell dissemination: a cell surface CD44 variant, rather than standard CD44, supports in vitro lymphoma cell dissemination: a cell surface CD44 variant, rather than standard CD44, supports in vitro lymphoma cell dissemination: a cell surface CD44 variant, rather than standard CD44, supports in vitro lymphoma cell dissemination: a cell surface CD44 variant, rather than standard CD44, supports in vitro lymphoma cell dissemination: a cell surface CD44 variant, rather than standard CD44, supports in vitro lymphoma cell dissemination: a cell surface CD44 variant, rather t

444	A reassessment of the response of the bacterial ribosome to the frameshift stimulatory signal of the human immunodeficiency virus type 1. <b>2004</b> , 10, 1225-35	32
443	Role of architecture in the function and specificity of two Notch-regulated transcriptional enhancer modules. <b>2012</b> , 8, e1002796	22
442	Exonic Splicing Mutations Are More Prevalent than Currently Estimated and Can Be Predicted by Using In Silico Tools. <b>2016</b> , 12, e1005756	95
441	Long-Term Persistence of Bi-functionality Contributes to the Robustness of Microbial Life through Exaptation. <b>2016</b> , 12, e1005836	13
440	Heads, Shoulders, Elbows, Knees, and Toes: Modular Gdf5 Enhancers Control Different Joints in the Vertebrate Skeleton. <b>2016</b> , 12, e1006454	39
439	Tissue-specific enhancer repression through molecular integration of cell signaling inputs. <b>2017</b> , 13, e100671	87
438	mRuby, a bright monomeric red fluorescent protein for labeling of subcellular structures. <b>2009</b> , 4, e4391	161
437	Crystal structure of the C-terminal cytoplasmic domain of non-structural protein 4 from mouse hepatitis virus A59. <b>2009</b> , 4, e6217	12
436	Histidine residue 94 is involved in pH sensing by histidine kinase ArsS of Helicobacter pylori. <b>2009</b> , 4, e6930	36
435	Identification of gemin5 as a novel 7-methylguanosine cap-binding protein. 2009, 4, e7030	34
434	Discovery of novel proteasome inhibitors using a high-content cell-based screening system. <b>2009</b> , 4, e8503	16
433	VE-statin/egfl7 expression in endothelial cells is regulated by a distal enhancer and a proximal promoter under the direct control of Erg and GATA-2. <b>2010</b> , 5, e12156	15
432	Fitness ranking of individual mutants drives patterns of epistatic interactions in HIV-1. <b>2011</b> , 6, e18375	20
431	The Streptococcus sanguinis competence regulon is not required for infective endocarditis virulence in a rabbit model. <b>2011</b> , 6, e26403	9
430	Novel covalently linked insulin dimer engineered to investigate the function of insulin dimerization. <b>2012</b> , 7, e30882	24
429	A unique modification of the eukaryotic initiation factor 5A shows the presence of the complete hypusine pathway in Leishmania donovani. <b>2012</b> , 7, e33138	22
428	A glutathione transferase from Agrobacterium tumefaciens reveals a novel class of bacterial GST superfamily. <b>2012</b> , 7, e34263	21
427	Overexpression of DNA polymerase zeta reduces the mitochondrial mutability caused by pathological mutations in DNA polymerase gamma in yeast. <b>2012</b> , 7, e34322	17

426	Intramolecular epistasis and the evolution of a new enzymatic function. 2012, 7, e39822	42
425	Drosophila heat shock response requires the JNK pathway and phosphorylation of mixed lineage kinase at a conserved serine-proline motif. <b>2012</b> , 7, e42369	17
424	Autophagy creates a CTL epitope that mimics tumor-associated antigens. 2012, 7, e47126	15
423	The Ionic and hydrophobic interactions are required for the auto activation of cysteine proteases of Plasmodium falciparum. <b>2012</b> , 7, e47227	13
422	Autoinducers act as biological timers in Vibrio harveyi. <b>2012</b> , 7, e48310	47
421	Autoinactivation of the stargazin-AMPA receptor complex: subunit-dependency and independence from physical dissociation. <b>2012</b> , 7, e49282	11
420	High affinity humanized antibodies without making hybridomas; immunization paired with mammalian cell display and in vitro somatic hypermutation. <b>2012</b> , 7, e49458	23
419	Recovery of red fluorescent protein chromophore maturation deficiency through rational design. <b>2012</b> , 7, e52463	15
418	Pseudomonas aeruginosa PA1006 is a persulfide-modified protein that is critical for molybdenum homeostasis. <b>2013</b> , 8, e55593	13
417	Biochemical and mutational analysis of a novel nicotinamidase from Oceanobacillus iheyensis HTE831. <b>2013</b> , 8, e56727	15
416	The transcription factor C/EBP-III mediates constitutive and LPS-inducible transcription of murine SerpinB2. <b>2013</b> , 8, e57855	15
415	Kinetic and spectroscopic studies of bicupin oxalate oxidase and putative active site mutants. <b>2013</b> , 8, e57933	14
414	Partial agonism of taurine at gamma-containing native and recombinant GABAA receptors. <b>2013</b> , 8, e61733	17
413	Mechanistic insights into the neutralization of cytotoxic abrin by the monoclonal antibody D6F10. <b>2013</b> , 8, e70273	9
412	The ferredoxin ThnA3 negatively regulates tetralin biodegradation gene expression via ThnY, a ferredoxin reductase that functions as a regulator of the catabolic pathway. <b>2013</b> , 8, e73910	6
411	Export of extracellular polysaccharides modulates adherence of the Cyanobacterium synechocystis. <b>2013</b> , 8, e74514	55
410	The IRAK homolog Pelle is the functional counterpart of IIB kinase in the Drosophila Toll pathway. <b>2013</b> , 8, e75150	25
409	Identification and characterization of the transcriptional regulator ChrB in the chromate resistance determinant of Ochrobactrum tritici 5bvl1. <b>2013</b> , 8, e77987	14

408	UCS protein Rng3p is essential for myosin-II motor activity during cytokinesis in fission yeast. <b>2013</b> , 8, e79593	17
407	Structural analysis of microRNA-target interaction by sequential seed mutagenesis and stem-loop 3MRACE. <b>2013</b> , 8, e81427	4
406	Efficicent (R)-phenylethanol production with enantioselectivity-alerted (S)-carbonyl reductase II and NADPH regeneration. <b>2013</b> , 8, e83586	14
405	Activation of a chimeric Rpb5/RpoH subunit using library selection. <b>2014</b> , 9, e87485	4
404	A pathogenesis related protein, VpPR-10.1, from Vitis pseudoreticulata: an insight of its mode of antifungal activity. <b>2014</b> , 9, e95102	24
403	First functional and mutational analysis of group 3 N-acetylneuraminate lyases from Lactobacillus antri and Lactobacillus sakei 23K. <b>2014</b> , 9, e96976	4
402	Engineering pyranose 2-oxidase for modified oxygen reactivity. <b>2014</b> , 9, e109242	13
401	Cyanobacterial light-driven proton pump, gloeobacter rhodopsin: complementarity between rhodopsin-based energy production and photosynthesis. <b>2014</b> , 9, e110643	29
400	Three members of polyamine modulon under oxidative stress conditions: two transcription factors (SoxR and EmrR) and a glutathione synthetic enzyme (GshA). <b>2015</b> , 10, e0124883	17
399	Methylatable Signaling Helix Coordinated Inhibitory Receiver Domain in Sensor Kinase Modulates Environmental Stress Response in Bacillus Cereus. <b>2015</b> , 10, e0137952	3
398	The Divergent CD8+ T Cell Adjuvant Properties of LT-IIb and LT-IIc, Two Type II Heat-Labile Enterotoxins, Are Conferred by Their Ganglioside-Binding B Subunits. <b>2015</b> , 10, e0142942	4
397	AdcAII of Streptococcus pneumoniae Affects Pneumococcal Invasiveness. <b>2016</b> , 11, e0146785	17
396	Mutagenesis of mNeptune Red-Shifts Emission Spectrum to 681-685 nm. <b>2016</b> , 11, e0148749	9
395	Cuf2 Is a Transcriptional Co-Regulator that Interacts with Mei4 for Timely Expression of Middle-Phase Meiotic Genes. <b>2016</b> , 11, e0151914	1
394	Transcriptional Regulation of the III-Type Carbonic Anhydrase Gene bca by RamA in Corynebacterium glutamicum. <b>2016</b> , 11, e0154382	2
393	Elevation of the Yields of Very Long Chain Polyunsaturated Fatty Acids via Minimal Codon Optimization of Two Key Biosynthetic Enzymes. <b>2016</b> , 11, e0158103	3
392	Aromatic amino acids in the cellulose binding domain of Penicillium crustosum endoglucanase EGL1 differentially contribute to the cellulose affinity of the enzyme. <b>2017</b> , 12, e0176444	4
391	Biochemical characterization of a new nicotinamidase from an unclassified bacterium thriving in a geothermal water stream microbial mat community. <b>2017</b> , 12, e0181561	2

390	CPVT-associated cardiac ryanodine receptor mutation G357S with reduced penetrance impairs Ca2+ release termination and diminishes protein expression. <b>2017</b> , 12, e0184177	9
389	A Nested-Splicing by Overlap Extension PCR Improves Specificity of this Standard Method. <b>2015</b> , 13, 56-59	3
388	Osmostress enhances activating phosphorylation of Hog1 MAP kinase by mono-phosphorylated Pbs2 MAP2K. <b>2020</b> , 39, e103444	13
387	Herbicide sensitivities of mutated enzymes expressed from artificially generated genes of acetolactate synthase. <b>2008</b> , 33, 128-137	16
386	Five ETS family members, ELF-1, ETV-4, ETV-3L, ETS-1, and ETS-2 upregulate human leukocyte-associated immunoglobulin-like receptor-1 gene basic promoter activity. <b>2018</b> , 10, 1390-1401	5
385	MicroRNA-124 inhibits macrophage cell apoptosis via targeting p38/MAPK signaling pathway in atherosclerosis development. <b>2020</b> , 12, 13005-13022	11
384	miR-145 inhibits tumor growth and metastasis by targeting metadherin in high-grade serous ovarian carcinoma. <b>2014</b> , 5, 10816-29	88
383	Functional isogenic modeling of BRCA1 alleles reveals distinct carrier phenotypes. <b>2015</b> , 6, 25240-51	7
382	NF-IB-Induced Upregulation of miR-548as-3p Increases Invasion of NSCLC by Targeting PTEN. <b>2019</b> , 19, 1058-1068	8
381	Armadillo Repeat Containing 8alpha Binds to HRS and Promotes HRS Interaction with Ubiquitinated Proteins. <b>2010</b> , 4, 1-8	22
380	Engineering Vibrio fischeri for Inducible Gene Expression. <b>2014</b> , 8, 122-9	5
379	A Dual Reporter Splicing Assay Using HaloTag-containing Proteins. <b>2012</b> , 6, 27-37	5
378	Functional investigation of the Val1714Gly and Asp1733Gly variants by computational tools and yeast transcription activation assay. <b>2019</b> , 8, 113-118	3
377	Enhancement of a sigma(B)-dependent stress response in Bacillus subtilis by light via YtvA photoreceptor. <b>2007</b> , 53, 81-8	30
376	is a mitochondrial disease gene causing skeletal dysplasia, cataracts, and white matter changes. <b>2019</b> , 2,	21
375	In vitro education of human natural killer cells by KIR3DL1. <b>2019</b> , 2,	4
374	Use of a Thermus thermophilus host-vector system for expression of genes from the hyperthermophilic archaeon Pyrococcus horikoshii. <b>2004</b> , 3, 1_28-1_36	5
373	Manganese Depletion Leads to Multisystem Changes in the Transcriptome of the Opportunistic Pathogen. <b>2020</b> , 11, 592615	8

372	Effects of Substrate-Binding Site Residues on the Biochemical Properties of a Tau Class Glutathione -Transferase from. <b>2019</b> , 11,	5
371	Exploring Yeast as a Study Model of Pantothenate Kinase-Associated Neurodegeneration and for the Identification of Therapeutic Compounds. <b>2020</b> , 22,	6
370	c-src activating mutation analysis in Chinese patients with colorectal cancer. 2005, 11, 2351-3	7
369	Mutated elements of a complex promoter (Amh) can help to demonstrate the role of certain elements in controlling differential gene expression. <b>2012</b> , 02, 351-358	4
368	The Transcription Factors GATA-1 and GATA-4 Have Opposite Effects on DNA Expression Driven by an Amh Promoter. <b>2014</b> , 04, 150-158	2
367	Enhancement of the Thermostability of a Fibrinolytic Enzyme from Bacillus amyloliquefaciens CH51. <b>2013</b> , 23, 15-23	2
366	Ser360 and Ser364 in the Kinase Domain of Tomato SlMAPKKKIare Critical for Programmed Cell Death Associated with Plant Immunity. <b>2017</b> , 33, 163-169	3
365	Structural analysis of sialyltransferase PM0188 from Pasteurella multocida complexed with donor analogue and acceptor sugar. <b>2008</b> , 41, 48-54	21
364	Biochemical characterization of ferredoxin-NADP(+) reductase interaction with flavodoxin in Pseudomonas putida. <b>2012</b> , 45, 476-81	8
363	Altered sugar donor specificity and catalytic activity of pteridine glycosyltransferases by domain swapping or site-directed mutagenesis. <b>2013</b> , 46, 37-40	5
362	Preparing compound heterozygous reference material using gene synthesis technology: a model of thrombophilic mutations. <b>2014</b> , 158, 539-43	1
361	BRAF activates PAX3 to control muscle precursor cell migration during forelimb muscle development. <b>2016</b> , 5,	12
360	Ubiquitylation-independent activation of Notch signalling by Delta. 2017, 6,	9
359	Disparate expression specificities coded by a shared Hox-C enhancer. <b>2020</b> , 9,	1
358	Quorum sensing controls multicellular aggregate formation. 2018, 7,	25
357	-regulatory basis of sister cell type divergence in the vertebrate retina. 2019, 8,	11
356	Substrate Binding in the Mitochondrial ADP/ATP Carrier is a Step-Wise Process Guiding the Structural Changes in the Transport Cycle.	
355	Fis Connects Two Sensory Pathways, Quorum Sensing and Surface Sensing, to Control Motility in. <b>2021</b> , 12, 669447	1

## (2003-2021)

354	Cross talk between the upstream exon-intron junction and Prp2 facilitates splicing of non-consensus introns. <b>2021</b> , 37, 109893	1
353	Novel Structures of Type 1 Glyceraldehyde-3-phosphate Dehydrogenase from Provide New Insights into the Mechanism of Generation of 1,3-Bisphosphoglyceric Acid. <b>2021</b> , 11,	0
352	Gut-derived bacterial flagellin induces beta-cell inflammation and dysfunction.	О
351	Fission yeast RNA-binding proteins Puf2 and Puf4 are involved in repression of ferrireductase Frp1 expression in response to iron. <b>2021</b> , 116, 1361-1377	1
350	Variants identified by next-generation sequencing cause endoplasmic reticulum stress in Rhodopsin-associated retinitis pigmentosa. <b>2021</b> , 21, 371	O
349	Investigations on the Degradation of the Bile Salt Cholate via the 9,10Pathway Reveals the Formation of a Novel Recalcitrant Steroid Compound by a Side Reaction in sp. Strain Chol11. <b>2021</b> , 9,	O
348	Mastrevirus Rep and RepA Proteins Suppress de novo Transcriptional Gene Silencing. 2021, 22,	0
347	Binding of de novo synthesized radiolabeled juvenile hormone (JH III) by JH receptors from the Cuban subterranean termite Prorhinotermes simplex and the German cockroach Blattella germanica. <b>2021</b> , 139, 103671	Ο
346	PCR: Overview on Application Formats in Research and Clinical Diagnosis. 2000, 327-334	
345	Nuclear translocation of ferritin in corneal epithelial cells. <b>2001</b> , 114, 2327-2334	31
345	Nuclear translocation of ferritin in corneal epithelial cells. <b>2001</b> , 114, 2327-2334  Analysis of the transcriptional regulation of mouse prostacyclin synthase gene. <b>2002</b> , 507, 281-6	31
		31
344	Analysis of the transcriptional regulation of mouse prostacyclin synthase gene. <b>2002</b> , 507, 281-6	31
344	Analysis of the transcriptional regulation of mouse prostacyclin synthase gene. <b>2002</b> , 507, 281-6  Cloning.	31
344 343 342	Analysis of the transcriptional regulation of mouse prostacyclin synthase gene. 2002, 507, 281-6  Cloning.  Cloning.	31
344 343 342 341	Analysis of the transcriptional regulation of mouse prostacyclin synthase gene. 2002, 507, 281-6  Cloning.  Cloning.  Recombinant DNA.	31
344 343 342 341 340	Analysis of the transcriptional regulation of mouse prostacyclin synthase gene. 2002, 507, 281-6  Cloning.  Cloning.  Recombinant DNA.  Site-Directed Mutagenesis.	31

336	Disulfide Bond Structure and Accessibility of Cysteines in the Ectodomain of the Cholecystokinin Receptor: Specific Mono-Reactive Receptor Constructs Examine Charge-Sensitivity of Loop Regions. <b>2003</b> , 9, 83-91	
335	Exploring the Substrate Specificity of Benzoylformate Decarboxylase, Pyruvate Decarboxylase, and Benzaldehyde Lyase. <b>2003</b> ,	
334	Cloning and Characterization of the Constitutively Expressed Chitinase C Gene from a Marine Bacterium, Salinivibrio costicola Strain 5SM-1. <b>2004</b> , 96, 529-536	
333	Hybrid Concentration-Controlled Direct-Proportional Length-Based DNA Computing for Numerical Optimization of the Shortest Path Problem. <b>2006</b> , 206-221	
332	A Conserved Region in the EBL Proteins Is Implicated in Microneme Targeting of the Malaria Parasite Plasmodium falciparum. <b>2006</b> , 281, 31995-32003	2
331	Tertiary structure in 7.9 m guanidinium chloride the role of Glu53 and Asp287 in Pyrococcus furiosus endo- 1,3-glucanase. <b>2007</b> , 071115064009001-???	
330	Roles of the Residues Lys115 and Tyr116 in the Binding of an Allosteric Inhibitor AMP to Pea Cytosolic Fructose-1,6-bisphosphatase. <b>2008</b> , 51, 45-49	
329	Genetic Manipulations. <b>2008</b> , 273-309	
328	Generation of Stably Transfected Eukaryotic Cell Lines Producing ImmunoRNAse Fusion Proteins. <b>2010</b> , 101-112	
327	c-Myc Attenuates The Ability of Doxorubicin to Reduce The Colony Formation Partially Through Regulating Nbs1 in U2OS Cells*. <b>2010</b> , 37, 855-863	
326	Isolation of microRNAs that regulate seed dormancy and germination. <b>2011</b> , 773, 199-213	
325	Second-Generation Interferons: An Effective, Long-Lasting Hyperglycosylated IFN-alpha2. <b>2012</b> , 535-555	
324	Identification of Potential Substrates of N-acteylglucosamine Kinase by a Proteomic Approach. <b>2013</b> , 23, 586-594	
323	Rapid cloning of genes and promoters for functional analyses. <b>2014</b> , 1099, 123-32	2
322	Novel MHC Variants Spliced by Overlap Extension. <b>1990</b> , 47-55	
321	The polymerase chain reaction. <b>1990</b> , 12, 115-37	O
320	Molecular Analysis of the Interactions between Staphylococcal Enterotoxin a Superantigen and the Human MHC Class II Molecules. <b>1992</b> , 179-185	
319	Site-Directed Mutagenesis Using the PCR. <b>1992</b> , 216-218	

318	Two conserved essential motifs of the murine immunoglobulin lambda enhancers bind B-cell-specific factors. <b>1992</b> , 12, 309-320	12
317	Transcriptional inhibition of the murine erythropoietin receptor gene by an upstream repetitive element. <b>1993</b> , 13, 98-104	9
316	PLANT GENE EXPRESSION AND PCR TECHNIQUES. <b>1993</b> , 313-372	
315	Analysis of the Structure and Function of the Fast Nerve Growth Factor Receptor. <b>1993</b> , 11, 352-374	
314	Genetic transfer and expression of reconstructed yeast artificial chromosomes containing normal and translocated BCL2 proto-oncogenes. <b>1993</b> , 13, 5469-5478	4
313	The stringency and magnitude of androgen-specific gene activation are combinatorial functions of receptor and nonreceptor binding site sequences. <b>1993</b> , 13, 6326-6335	24
312	Functional significance of lysine 1423 of neurofibromin and characterization of a second site suppressor which rescues mutations at this residue and suppresses RAS2Val-19-activated phenotypes. <b>1994</b> , 14, 815-821	17
311	Production of antibody-based fusion proteins. <b>1996</b> , 129-138	
310	Important Molecular Biological Methods. <b>1996</b> , 647-672	
309	From transient cotransfections to the transcription repressor assay (TRA). <b>1996</b> , 315-332	
309	From transient cotransfections to the transcription repressor assay (TRA). <b>1996</b> , 315-332  In Vitro Mutagenesis. <b>1996</b> , 155-179	
308	In Vitro Mutagenesis. <b>1996</b> , 155-179	
308	In Vitro Mutagenesis. <b>1996</b> , 155-179  A Possible Physiological Role of the Major Intrinsic Protein of the Ocular Lens. <b>1997</b> , 427-457	2
308 307 306	In Vitro Mutagenesis. 1996, 155-179  A Possible Physiological Role of the Major Intrinsic Protein of the Ocular Lens. 1997, 427-457  Genetic Engineering of Lantibiotics. 1998, 191-205  A Mutation in the ? Subunit of the Platelet Integrin ?IIbIB Identifies a Novel Region Important for	2
308 307 306 305	In Vitro Mutagenesis. 1996, 155-179  A Possible Physiological Role of the Major Intrinsic Protein of the Ocular Lens. 1997, 427-457  Genetic Engineering of Lantibiotics. 1998, 191-205  A Mutation in the ? Subunit of the Platelet Integrin ?IIbIIB Identifies a Novel Region Important for Ligand Binding. 1999, 93, 918-924  Development and customization of a color-coded microbeads-based assay for drug resistance in	2
308 307 306 305 304	In Vitro Mutagenesis. 1996, 155-179  A Possible Physiological Role of the Major Intrinsic Protein of the Ocular Lens. 1997, 427-457  Genetic Engineering of Lantibiotics. 1998, 191-205  A Mutation in the ? Subunit of the Platelet Integrin ?IIbIIB Identifies a Novel Region Important for Ligand Binding. 1999, 93, 918-924  Development and customization of a color-coded microbeads-based assay for drug resistance in HIV-1 reverse transcriptase. 2014, 9, e109823	2

300	Structural basis for EarP-mediated arginine glycosylation of translation elongation factor EF-P.	
299	Epistatic interactions within the influenza virus polymerase complex mediate mutagen resistance and replication fidelity.	
298	Differential Mast Cell Outcomes Are Sensitive to FcIRI-Syk Binding Kinetics.	1
297	Cryptography for genetic material.	
296	RNA editing of CAPS1 regulates synaptic vesicle organization, release and retrieval.	
295	Pseudomonas aeruginosatype IV minor pilins and PilY1 regulate virulence by modulating FimS-AlgR activity.	
294	TMEM16F activation by Ca2+triggers plasmalemma expansion and directs PD-1 trafficking.	
293	Intracellular signaling through thecomRSsystem inStreptococcus mutansgenetic competence.	
292	A speed-fidelity trade-off determines the mutation rate and virulence of an RNA virus.	2
291	A nonsense mutation in Myelin Protein Zero causes congenital hypomyelination neuropathy through altered P0 membrane targeting and gain of abnormal function.	
290	Distinct roles and requirements for Ras pathway signaling in visceral versus somatic muscle founder specification.	
289	A genome-wide screen identifies genes in rhizosphere-associatedPseudomonasrequired to evade plant defenses.	
288	Disparate expression specificities coded by a shared Hox-C enhancer.	
287	Staufen2 mediated RNA recognition and localization requires combinatorial action of multiple domains.	
286	PISD is a mitochondrial disease gene causing skeletal dysplasia, cataracts, and white matter changes.	
285	CrRLK1L receptor-like kinases HERCULES RECEPTOR KINASE 1 and ANJEA are female determinants of pollen tube reception.	
284	Acute inhibition of heterotrimeric kinesin-2 function reveals mechanisms of intraflagellar transport in mammalian cilia.	0
283	Golden Mutagenesis: An efficient multi-sitesaturation mutagenesis approach by Golden Gate cloning with automated primer design.	

282	TheMycobacterium tuberculosisPup-proteasome system regulates nitrate metabolism through an essential protein quality control system.	1
281	Decoration of the enterococcal polysaccharide antigen EPA is essential for virulence, cell surface charge and resistance to innate immunity.	
280	Comprehensive genome-wide identification of angiosperm upstream ORFs with peptide sequences conserved in various taxonomic ranges using a novel pipeline, ESUCA.	
279	Substrate structure and computation guided engineering of a Lipase for Omega-3 fatty acid selectivity.	
278	Functional characterization of BcrR: a one-component transmembrane signal transduction system for bacitracin resistance. <b>2019</b> , 165, 475-487	2
277	TDP-43 Thelical structure tunes liquid-liquid phase separation and function.	4
276	Dynamic pneumococcal genetic adaptations support bacterial growth and inflammation during coinfection with influenza.	
275	Overexpression of the dominant negative nbexo70d1 mutantionconfers tolerance to salt stress in transgenic tobacco.	
274	Origin of Conformational Dynamics in a Globular Protein.	
273	New roles for two-component system response regulators of Salmonella entericaserovar Typhi during host cell interactions.	
272	Mycobacterium tuberculosisRv0991c is a redox-regulated molecular chaperone.	
271	Slc7a5 alters Kv⊞mediated regulation of Kv1.2. <b>2020</b> , 152,	4
270	A simple and efficient method for in vitro site-directed mutagenesis.	
269	Using a mouse-adapted A/HK/01/68 influenza virus to analyse the impact of NS1 evolution in codons 196 and 231 on viral replication and virulence. <b>2020</b> , 101, 587-598	2
268	Fitness landscape of a dynamic RNA structure.	
267	Manganese depletion leads to multisystem changes in the transcriptome of the opportunistic pathogen Streptococcus sanguinis.	1
266	Knockdown of the inducible nitric oxide synthase (NOS2) splicing variant S3 promotes autophagic cell death from nitrosative stress in SW480 human colon cancer cells. <b>2021</b> ,	О
265	A missense mutation converts the Na,K-ATPase into an ion channel and causes therapy-resistant epilepsy. <b>2021</b> , 297, 101355	Ο

264	Putrescine and its metabolic precursor arginine promote biofilm and c-di-GMP synthesis in. <b>2021</b> , JB0029721	1
263	Species-specific sensitivity to TGF ${\mathbb H}$ signaling and changes to the Mmp13 promoter underlie avian jaw development and evolution.	
262	Di-arginine and FFAT-like motifs retain a subpopulation of PRA1 at ER-mitochondria membrane contact sites. <b>2020</b> , 15, e0243075	O
261	Recent Progress in DNA Parts Standardization and Characterization. <b>2020</b> , 43-69	О
260	Di-arginine and FFAT-like motifs retain a subpopulation of PRA1 at ER-mitochondria membrane contact sites.	
259	The Intergenic Small Non-Coding RNA ittA is Required for Optimal Infectivity and Tissue Tropism in Borrelia burgdorferi.	O
258	Histidine-Triad Hydrolases Provide Resistance to Peptide-Nucleotide Antibiotics.	
257	Site-specific covalent labeling of large RNAs with nanoparticles empowered by expanded genetic alphabet transcription.	
256	GPI-80 Augments NF-IB Activation in Tumor Cells. 2021, 22,	2
255	Clinical and Functional Characterization of Ryanodine Receptor 2 Variants Implicated in Calcium-Release Deficiency Syndrome. <b>2021</b> ,	3
254	Purification of an insect juvenile hormone receptor complex enables insights into its post-translational phosphorylation. <b>2021</b> , 101387	4
253	Infectivity Factor 5 Identified as a Substrate of P33 in the Baculoviral Disulfide Bond Formation Pathway. <b>2020</b> , 94,	3
252	Improving Initial Pool Generation of Direct-Proportional Length-Based DNA Computing by Parallel Overlap Assembly. <b>2005</b> , 349-358	
251	Plasmodium falciparum Atg18 localizes to the food vacuole via interaction with the multi-drug resistance protein 1 and phosphatidylinositol 3-phosphate.	
250	Mutagenesis and homology modeling reveal a predicted pocket of lysophosphatidylcholine acyltransferase 2 to catch Acyl-CoA.	
249	Structural basis of resistance to lincosamide, streptogramin A, and pleuromutilin antibiotics by ABCF ATPases in Gram-positive pathogens.	
248	Activation mutants in yeast RNA polymerase II subunit RPB3 provide evidence for a structurally conserved surface required for activation in eukaryotes and bacteria. <b>2000</b> , 14, 339-48	17
247	The unique extracellular disulfide loop of the glycine receptor is a principal ligand binding element. <b>1995</b> , 14, 2987-98	30

246	IgM receptor-mediated transactivation of the IgH 3Menhancer couples a novel Elf-1-AP-1 protein complex to the developmental control of enhancer function. <b>1995</b> , 14, 4501-13	13
245	C-terminus determinants for Mg2+ and polyamine block of the inward rectifier K+ channel IRK1. <b>1995</b> , 14, 5532-41	52
244	FKBP12-rapamycin target TOR2 is a vacuolar protein with an associated phosphatidylinositol-4 kinase activity. <b>1995</b> , 14, 5892-907	53
243	Nuclear localization of p85s6k: functional requirement for entry into S phase. <b>1994</b> , 13, 1557-65	58
242	VIP36, a novel component of glycolipid rafts and exocytic carrier vesicles in epithelial cells. <b>1994</b> , 13, 1729-40	48
241	The GTPase Rab3a negatively controls calcium-dependent exocytosis in neuroendocrine cells. <b>1994</b> , 13, 2029-37	47
240	A thermodynamic scale for leucine zipper stability and dimerization specificity: e and g interhelical interactions. <b>1994</b> , 13, 2849-61	80
239	A distinct modulating domain in glucocorticoid receptor monomers in the repression of activity of the transcription factor AP-1. <b>1994</b> , 13, 4087-95	140
238	Mating type-specific cell-cell recognition of Saccharomyces cerevisiae: cell wall attachment and active sites of a- and alpha-agglutinin. <b>1994</b> , 13, 4737-44	42
237	Activation function 2 (AF-2) of retinoic acid receptor and 9-cis retinoic acid receptor: presence of a conserved autonomous constitutive activating domain and influence of the nature of the response element on AF-2 activity. <b>1994</b> , 13, 5370-82	91
236	Immunophilins interact with calcineurin in the absence of exogenous immunosuppressive ligands. <b>1994</b> , 13, 5944-57	72
235	Human RPB5, a subunit shared by eukaryotic nuclear RNA polymerases, binds human hepatitis B virus X protein and may play a role in X transactivation. <b>1995</b> , 14, 143-50	100
234	A novel endocytosis signal related to the KKXX ER-retrieval signal. <b>1995</b> , 14, 2250-6	23
233	Targets of immunophilin-immunosuppressant complexes are distinct highly conserved regions of calcineurin A. <b>1995</b> , 14, 2772-83	45
232	Phosphorylation of human I kappa B-alpha on serines 32 and 36 controls I kappa B-alpha proteolysis and NF-kappa B activation in response to diverse stimuli. <b>1995</b> , 14, 2876-83	297
231	Nuclear uptake control of NF-kappa B by MAD-3, an I kappa B protein present in the nucleus. <b>1993</b> , 12, 201-11	117
230	Inter-species chimeras of leukaemia inhibitory factor define a major human receptor-binding determinant. <b>1993</b> , 12, 3487-95	8
229	The SLT2(MPK1) MAP kinase is activated during periods of polarized cell growth in yeast. <b>1996</b> , 15, 83-91	110

228	Transfer RNA-dependent cognate amino acid recognition by an aminoacyl-tRNA synthetase. <b>1996</b> , 15, 1983-91	16
227	The CXXC motif: imperatives for the formation of native disulfide bonds in the cell. <b>1996</b> , 15, 2659-67	64
226	Selective interaction of JNK protein kinase isoforms with transcription factors. <b>1996</b> , 15, 2760-70	382
225	Complementary change in cis determinants and trans factors in the evolution of an mRNP stability complex. <b>1996</b> , 15, 5040-51	10
224	Connectivity and orientation of the seven helical bundle in the tachykinin NK-1 receptor probed by zinc site engineering. <b>1996</b> , 15, 6213-9	13
223	Distinct specificity in the recognition of phosphoinositides by the pleckstrin homology domains of dynamin and BrutonMtyrosine kinase. <b>1996</b> , 15, 6241-50	154
222	Mechanism of activation of protein kinase B by insulin and IGF-1. <b>1996</b> , 15, 6541-51	1015
221	Specific cleavage of the retinoblastoma protein by an ICE-like protease in apoptosis. <b>1996</b> , 15, 6969-78	52
220	Saccharomyces cerevisiae a- and alpha-agglutinin: characterization of their molecular interaction. <b>1991</b> , 10, 4081-8	32
219	Structural features of the colony-stimulating factor 1 receptor that affect its association with phosphatidylinositol 3-kinase. <b>1990</b> , 9, 2415-21	56
218	Transcriptional enhancer factor (TEF)-1 and its cell-specific co-activator activate human papillomavirus-16 E6 and E7 oncogene transcription in keratinocytes and cervical carcinoma cells. <b>1992</b> , 11, 2271-81	64
217	Light regulatory sequences are located within the 5Mportion of the Fed-1 message sequence. <b>1992</b> , 11, 2311-7	46
216	Role of ATP in the intramitochondrial sorting of cytochrome c1 and the adenine nucleotide translocator. <b>1992</b> , 11, 4787-94	25
215	Isolation of pig mitochondrial 3-hydroxy-3-methylglutaryl-CoA synthase gene promoter: characterization of a peroxisome proliferator-responsive element. <b>1999</b> , 337 ( Pt 2), 329-35	8
214	Transmembrane folding of the human erythrocyte anion exchanger (AE1, Band 3) determined by scanning and insertional N-glycosylation mutagenesis. <b>1999</b> , 339 ( Pt 2), 269-79	20
213	Lipid phosphate phosphohydrolase-1 degrades exogenous glycerolipid and sphingolipid phosphate esters. <b>1999</b> , 340 ( Pt 3), 677-86	46
212	Sp1 mediates cell proliferation-dependent regulation of rat DNA topoisomerase IIalpha gene promoter. <b>1999</b> , 344 Pt 2, 367-74	7
211	Interferon-gamma-dependent stimulation of human involucrin gene expression: STAT1 (signal transduction and activators of transcription 1) protein activates involucrin promoter activity. <b>1999</b> , 344 Pt 3, 797-802	5

210	Identification of structurally important domains of lipid phosphate phosphatase-1: implications for its sites of action. <b>2000</b> , 345 Pt 2, 181-4	31
209	Zinc-regulated ubiquitin conjugation signals endocytosis of the yeast ZRT1 zinc transporter. <b>2000</b> , 346 Pt 2, 329-36	63
208	The domains of human fibronectin mediating the binding of alpha antigen, the most immunopotent antigen of mycobacteria that induces protective immunity against mycobacterial infection. <b>2000</b> , 347 Pt 3, 725-31	7
207	Cloning and characterization of ADAM28: evidence for autocatalytic pro-domain removal and for cell surface localization of mature ADAM28. <b>2000</b> , 348 Pt 1, 21-7	30
206	Contribution of steroidogenic factor 1 to the regulation of cholesterol synthesis. <b>2000</b> , 350 Pt 3, 785-90	8
205	Characterization of the mouse dynamin I gene promoter and identification of sequences that direct expression in neuronal cells. <b>2000</b> , 351 Pt 3, 661-8	1
204	Structure and function of the selenium translation element in the 3Muntranslated region of human cellular glutathione peroxidase mRNA. <b>1995</b> , 1, 519-25	40
203	Carbonic anhydrase II deficiency syndrome in a Belgian family is caused by a point mutation at an invariant histidine residue (107 HisTyr): complete structure of the normal human CA II gene. <b>1991</b> , 49, 1082-90	54
202	Molecular analysis of the acid sphingomyelinase deficiency in a family with an intermediate form of Niemann-Pick disease. <b>1995</b> , 56, 1343-9	16
201	Neoplastic transformation of prostatic and urogenital epithelium by the polyoma virus middle T gene. <b>1996</b> , 149, 1177-91	18
200	Combination primer polymerase chain reaction for multi-site mutagenesis of close proximity sites. <b>2005</b> , 16, 336-40	6
199	Accumulation of the mutations in basal core promoter of hepatitis B virus subgenotype C1 increase the risk of hepatocellular carcinoma in Southern China. <b>2013</b> , 6, 1076-85	19
198	Generation of Helper Plasmids Encoding Mutant Adeno-associated Virus Type 2 Capsid Proteins with Increased Resistance against Proteasomal Degradation. <b>2013</b> , 16, 813-21	2
197	[Construction and expression of nm23-H1 gene with different enzyme activities and resistant specific shRNA in eukaryotic expression vector]. <b>2014</b> , 17, 183-8	1
196	Yeast RNA polymerase II subunit RPB11 is related to a subunit shared by RNA polymerase I and III. <b>1993</b> , 3, 77-82	35
195	Lineage-specific alternative splicing of the human Fc gamma RIIA transmembrane exon requires sequences near the 3Msplice site. <b>1995</b> , 4, 217-25	4
194	Subtle determinants of the nucleocytoplasmic partitioning of in vivo-transcribed RNase MRP RNA in Xenopus laevis oocytes. <b>1996</b> , 5, 155-67	1
193	A Single Tube Overlap Extension PCR Method for Splicing of Multiple DNA Fragments. <b>2020</b> , 12, 37-43	1

192	Studying the Expression Efficiencies of Human Clotting Factor IX Analogs, Rationally-designed for Hyper-glycosylation. <b>2021</b> , 20, 523-535	
191	Activation mutants in yeast RNA polymerase II subunit RPB3 provide evidence for a structurally conserved surface required for activation in eukaryotes and bacteria. <b>2000</b> , 14, 339-348	34
190	Electrochemical DNA synthesis and sequencing on a single electrode with scalability for integrated data storage. <b>2021</b> , 7, eabk0100	1
189	A Yeast-Based Repurposing Approach for the Treatment of Mitochondrial DNA Depletion Syndromes Led to the Identification of Molecules Able to Modulate the dNTP Pool. <b>2021</b> , 22,	1
188	LSSmScarlet, dCyRFP2s, dCyOFP2s and CRISPRed2s, Genetically Encoded Red Fluorescent Proteins with a Large Stokes Shift. <b>2021</b> , 22,	1
187	MSMEG_3955 from Mycobacterium smegmatis is a FMN bounded homotrimeric NAD(P)H:Flavin mononucleotide (FMN) oxidoreductase. <b>2021</b> , 21, 319	
186	Cataract-causing mutation R48C increases IA-crystallin susceptibility to oxidative stress and ultraviolet radiation. <b>2021</b> ,	0
185	Evolutionary flexibility in routes to mat formation by Pseudomonas. 2021,	O
184	A novel violet fluorescent protein contains a unique oxidized tyrosine as the simplest chromophore ever reported in fluorescent proteins <b>2021</b> ,	1
183	Bioinformatic Expansion of Borosins Uncovers Trans-Acting Peptide Backbone -Methyltransferases in Bacteria <b>2022</b> ,	1
182	BrnQ-Type Branched-Chain Amino Acid Transporters Influence Bacillus anthracis Growth and Virulence <b>2022</b> , e0364021	O
181	Construction and Assembly of Standardized Biobricks for Synthetic Pathways Engineering in Yeasts. <b>2022</b> , 27-62	
180	Efficient gene editing through an intronic selection marker in cells 2022, 79, 111	0
179	Protein engineering: Methods and applications. <b>2022</b> , 641-668	
178	Characterization of the binding of cytosolic phospholipase A alpha and NOX2 NADPH oxidase in mouse macrophages <b>2022</b> , 1	
177	The ColR/S two-component system is a conserved determinant of host association across Pseudomonas species.	1
176	Provocation Testing and Therapeutic Response in a Newly Described Channelopathy: RyR2 Calcium Release Deficiency Syndrome <b>2021</b> , CIRCGEN121003589	1
175	Maf/ham1-like pyrophosphatases of non-canonical nucleotides are host-specific partners of viral RNA-dependent RNA polymerases <b>2022</b> , 18, e1010332	2

## (2020-2022)

174	The collectrin-like part of the SARS-CoV-1 and -2 receptor ACE2 is shed by the metalloproteinases ADAM10 and ADAM17 <b>2022</b> , 36, e22234	1
173	Crystal structures of PigF, an -methyltransferase involved in the prodigiosin synthetic pathway, reveal an induced-fit substrate-recognition mechanism <b>2022</b> , 9, 316-327	
172	PKC-III modulates Ca mobilization through Stim1 phosphorylation <b>2022</b> , 1	
171	Effect of sigma E on carbapenem resistance in OXA-48-producing Klebsiella pneumoniae 2022,	O
170	A simplified Gibson assembly method for site directed mutagenesis by re-use of standard, and entirely complementary, mutagenesis primers <b>2022</b> , 22, 10	Ο
169	Structural insights into crista junction formation by the Mic60-Mic19 complex.	O
168	S51 family peptidases provide resistance to peptidyl-nucleotide antibiotic McC.	
167	The mRubyFT Protein, Genetically Encoded Blue-to-Red Fluorescent Timer <b>2022</b> , 23,	1
166	Cellulosic copper nanoparticles and a hydrogen peroxide-based disinfectant protect Vero E6 cells against infection by viral pseudotyped particles expressing SARS-CoV-2, SARS-CoV or MERS-CoV Spike protein.	0
165	ACSF2: A MEDIUM-CHAIN ACYL-CoA SYNTHETASE WITH A POTENTIAL ROLE IN NEURONAL DIFFERENTIATION.	
164	Harnessing Rift Valley fever virus NSs gene for cancer gene therapy 2022,	
163	Aeromonas veronii virulence and adhesion attenuation mediated by the gene aodp. 2021,	O
162	BrnQ-type Branched-chain Amino Acid Transporters Influence Bacillus anthracis Growth and Virulence.	
161	Full Issue PDF <b>2021</b> , 34, 1336-1464	
160	Contribution of ZIP-family protein to manganese uptake and infective endocarditis virulence in Streptococcus sanguinis. <b>2021</b> ,	3
159	MALL, a membrane-tetra-spanning proteolipid overexpressed in cancer, is present in membraneless nuclear biomolecular condensates <b>2022</b> , 79, 236	
158	Image_1.pdf. <b>2020</b> ,	
157	Table_1.docx. <b>2020</b> ,	



## (2018-2020)



120 Data\_Sheet\_1.PDF. **2019**,

119	Image_1.pdf. <b>2019</b> ,	
118	Expression of distinct conformations of free HLA-Cw4 heavy chains in transfected neuroblastoma cells. <b>1996</b> , 43, 289-295	
117	Optimization of bacteriocin-release-protein-induced protein release by Escherichia coli: extracellular production of the periplasmic molecular chaperone FaeE. <b>1995</b> , 44, 459-465	1
116	Cloning and initial characterization of an alternatively spliced transcript encoded by the bovine herpes virus 1 latency-related gene. <b>2003</b> , 9, 612-22	14
115	S51 Family Peptidases Provide Resistance to Peptidyl-Nucleotide Antibiotic McC <b>2022</b> , e0080522	
114	Type VI secretion systems of pathogenic and commensal bacteria mediate niche occupancy in the gut <b>2022</b> , 39, 110731	2
113	Evidence for Non-Essential Salt Bridges in the M-Gates of Mitochondrial Carrier Proteins <b>2022</b> , 23,	O
112	Single-molecule tracking of Nodal and Lefty in live zebrafish embryos supports hindered diffusion model.	О
111	A gain-of-function mutation in the ITPR1 gating domain causes male infertility in mice.	O
110	The antibody-binding Fc gamma receptor IIIa / CD16a is N-glycosylated with high occupancy at all five sites. <b>2022</b> , 3, 128-135	О
109	Expression and copper binding characteristics of Plasmodium falciparum cytochrome c oxidase assembly factor 11, Cox11. <b>2022</b> , 21,	
108	Substrate binding in the mitochondrial ADP/ATP carrier is a step-wise process guiding the structural changes in the transport cycle. <b>2022</b> , 13,	1
107	A class IV adenylate cyclase CyaB is required for capsule polysaccharide production and biofilm formation in Vibrio parahaemolyticus.	
106	PKGIIIs activated by metal-dependent oxidation in vitro but not in intact cells. <b>2022</b> , 102175	
105	Cell-Free Mutant Analysis Combined with Structure Prediction of a Lasso Peptide Biosynthetic Protease B2. <b>2022</b> , 11, 2022-2028	2
104	Self-activating G protein Bubunits engage seven-transmembrane Regulator of G protein Signaling (RGS) proteins and a Rho guanine nucleotide exchange factor effector in the amoeba Naegleria fowleri. <b>2022</b> , 102167	
103	New Mutations in cls Lead to Daptomycin Resistance in a Clinical Vancomycin- and Daptomycin-Resistant Enterococcus faecium Strain. 13,	

102	Cellulosic copper nanoparticles and a hydrogen peroxide-based disinfectant trigger rapid inactivation of pseudoviral particles expressing the Spike protein of SARS-CoV-2, SARS-CoV and MERS-CoV.	1
101	Species-specific sensitivity to TGF⊞signaling and changes to the Mmp13 promoter underlie avian jaw development and evolution. 11,	O
100	Aberrant Epidermal Growth Factor Receptor Signaling and Enhanced Sensitivity to EGFR Inhibitors in Lung Cancer. <b>2005</b> , 65, 226-235	93
99	Mutational Analysis of Vibrio fischeri c-di-GMP-Modulating Genes Reveals Complex Regulation of Motility.	O
98	Regulation of the Human IL-10RB Gene Expression by Sp8 and Sp9. <b>2022</b> , 1-17	
97	A Method for In Situ Reverse Genetic Analysis of Proteins Involved mtDNA Replication. <b>2022</b> , 11, 2168	1
96	Correlation between the binding affinity and the conformational entropy of nanobody SARS-CoV-2 spike protein complexes. <b>2022</b> , 119,	Ο
95	Inhibition of the carnitine acylcarnitine carrier by carbon monoxide reveals a novel mechanism of action with non-metal-containing proteins. <b>2022</b> , 188, 395-403	1
94	Using adenovirus-mediated gene transfer to study the effect of myeloperoxidase on plasma lipid levels, HDL structure and functionality in mice expressing human apoA-I forms. <b>2022</b> , 622, 108-114	
93	Functional analysis, diversity, and distribution of carbendazim hydrolases Mhel and CbmA , responsible for the initial step in carbendazim degradation.	
92	Molecular interplay of an assembly machinery for nitrous oxide reductase. 2022, 608, 626-631	0
91	A Secondary Metabolic Enzyme Functioned as an Evolutionary Seed of a Primary Metabolic Enzyme. <b>2022</b> , 39,	
90	Citrate Regulates the Saccharomyces cerevisiae Mitochondrial GDP/GTP Carrier (Ggc1p) by Triggering Unidirectional Transport of GTP. <b>2022</b> , 8, 795	1
89	Gut-derived bacterial flagellin induces beta-cell inflammation and dysfunction. 2022, 14,	1
88	Novel Xylose and Shikimate Transporters Facilitating the Design of a Microbial Consortium as a Chassis for Benzylisoquinoline Alkaloid Production.	
87	The ${ m I\! B}$ Grasp Domain of Proteasomal ATPase Mpa Makes Critical Contacts with the Mycobacterium tuberculosis 20S Core Particle to Facilitate Degradation.	
86	Role of novel polysaccharide layers in assembly of the exosporium, the outermost protein layer of the Bacillus anthracis spore.	1
85	Proteolytic Processing of the Coronavirus Replicase Nonstructural Protein 14 Exonuclease Is Not Required for Virus Replication but Alters RNA Synthesis and Viral Fitness. <b>2022</b> , 96,	2

84 Highly efficient and simple SSPER and rrPCR approaches for the accurate site-directed mutagenesis of large and small plasmids. **2022**,

83	A role for N-glycosylation in active adenosine deaminase 2 production. <b>2022</b> , 130237	
82	Biochemical Characterizations of the Putative Endolysin Ecd09610 Catalytic Domain from Clostridioides difficile. <b>2022</b> , 11, 1131	
81	Structural determination of an antibody that specifically recognizes polyethylene glycol with a terminal methoxy group. <b>2022</b> , 5,	1
80	MiR164-TaNAC14 module regulates root development and abiotic-stress tolerance of wheat seedlings. <b>2022</b> ,	2
79	Docking of Syk to FcRI is enhanced by Lyn but limited in duration by SHIP1. <b>2022</b> , 33,	
78	Acetylation of fructose-bisphosphate aldolase-mediated glycolysis is essential for Bombyx mori nucleopolyhedrovirus infection. <b>2022</b> , 170, 105695	1
77	Delineating specific regions of N- terminal domain of T3SS ATPase YsaN of Yersinia enterocolitica governing its different oligomerization states. 9,	O
76	Proline/Glycine residues of the PG-levels guide conformational changes along the transport cycle in the mitochondrial carnitine/acylcarnitine carrier (SLC25A20). <b>2022</b> , 221, 1453-1465	2
75	Structural requirements for intracellular processing and sorting of bactericidal/permeability-increasing protein (BPI): comparison with lipopolysaccharide-binding protein. <b>2000</b> , 68, 669-678	4
74	Genome-wide identification of Arabidopsis non-AUG-initiated upstream ORFs with evolutionarily conserved regulatory sequences that control protein expression levels.	О
73	Riemerella anatipestifer AS87_RS02955 Acts as a Virulence Factor and Displays Endonuclease Activity.	1
<del>7</del> 2	Cell-trafficking impairment in disease-associated LPA6 missense mutants and a potential pharmacoperone therapy for autosomal recessive woolly hair/hypotrichosis.	О
71	Reverse mutants of the catalytic 19 kDa mutant protein (nanoKAZ/nanoLuc) from Oplophorus luciferase with coelenterazine as preferred substrate. <b>2022</b> , 17, e0272992	O
70	Lambda-PCR for precise DNA assembly and modification.	О
69	Isoform-specific and ubiquitination dependent recruitment of Tet1 to replicating heterochromatin modulates methylcytosine oxidation. <b>2022</b> , 13,	O
68	A conserved viral amphipathic helix governs the replication site-specific membrane association. <b>2022</b> , 18, e1010752	1
67	Evolution and molecular basis of substrate specificity in a 3-ketoacyl-CoA synthase gene cluster from Populus trichocarpa. <b>2022</b> , 102496	1

66	A gain of function ryanodine receptor 2 mutation (R1760W-RyR2) in catecholaminergic polymorphic ventricular tachycardia.	1
65	Tm-22 resistance targets a conserved cysteine essential for tobacco mosaic virus (TMV) movement.	O
64	Understanding the necessity of regulatory protein machinery in heterologous expression of class-III type of Ocins.	O
63	POU6F2mutation identified in humans with pubertal failure shifts isoform formation and alters GnRH transcript expression.	O
62	Single-molecule tracking of Nodal and Lefty in live zebrafish embryos supports hindered diffusion model. <b>2022</b> , 13,	1
61	Assessing the role of intrinsic disorder in RNA-binding protein function: hnRNP K as a case study. <b>2022</b> ,	1
60	Structure-guided product determination of the bacterial type II diterpene synthase Tpn2. 2022, 5,	1
59	Novel regulatory logic in the antibiotic resistance response of Enterococcus faecalis against cell envelope targeting antibiotics.	O
58	Functional analysis of the dehydratase domains of the PUFA synthase from Emiliania huxleyi in Escherichia coli and Arabidopsis thaliana. <b>2022</b> , 15,	О
57	Physiological jump in erythrocyte redox potential during Plasmodium falciparum development occurs independent of the sickle cell trait. <b>2022</b> , 58, 102536	O
56	Acetylation of citrate synthase inhibits Bombyx mori nucleopolyhedrovirus propagation by affecting energy metabolism. <b>2022</b> , 105890	О
55	BarA/UvrY differentially regulates prodigiosin biosynthesis and swarming motility in Serratia marcescens FS14. <b>2022</b> , 104010	O
54	A single extracellular loop of FoxA controls ligand specificity, uptake, and signaling inPseudomonas aeruginosa.	О
53	A simple and economical site-directed mutagenesis method for large plasmids by direct transformation of two overlapping PCR fragments.	O
52	Deep mutational scanning to probe specificity determinants in proteins. 2023, 31-71	О
51	Vascular fungi alter the apoplastic purinergic signaling in plants by deregulating the homeostasis of extracellular ATP and its metabolite adenosine.	O
50	cNTnC and fYTnC2, Genetically Encoded Green Calcium Indicators Based on Troponin C from Fast Animals. <b>2022</b> , 23, 14614	О
49	The ColR/S two-component system is a conserved determinant of host association across Pseudomonas species.	O

48	A differential effect for tau isoforms and mutants in decreasing the stability of Arc.	0
47	A Possible Explanation for the Low Penetrance of Pathogenic KCNE1 Variants in Long QT Syndrome Type 5. <b>2022</b> , 15, 1550	O
46	The Thermostability of Nucleoside Phosphorylases from Prokaryotes. I. The Role of the Primary Structure of the N-terminal fragment of the Protein in the Thermostability of Uridine Phosphorylases. <b>2022</b> , 58, 744-751	0
45	Biosynthesis of dillapiole/apiole in dill ( Anethum graveolens ): Characterization of regioselective phenylpropene O -methyltransferase.	O
44	A Two-Step Mechanism for Recruitment of Pip by PU.1. <b>1998</b> , 160, 241-252	17
43	Regulatory Elements in the Promoter of a Murine TCRD V Gene Segment. <b>1998</b> , 161, 791-804	2
42	The Leukocyte Function-Associated Antigen-1 (LFA-1)-Binding Site on ICAM-3 Comprises Residues on Both Faces of the First Immunoglobulin Domain. <b>1998</b> , 161, 1363-1370	6
41	The Invariant Chain Gene Intronic Enhancer Shows Homology to Class II Promoter Elements. <b>1998</b> , 161, 1844-1852	1
40	HLA-DR4 (DRB1*0401) Transgenic Mice Expressing an Altered CD4-Binding Site: Specificity and Magnitude of DR4-Restricted T Cell Response. <b>1998</b> , 161, 2925-2929	10
39	The IL-2 Receptor Promotes Proliferation, bcl-2 and bcl-x Induction, But Not Cell Viability Through the Adapter Molecule Shc. <b>1998</b> , 161, 4627-4633	27
38	Active Sites in Complement Component C3 Mapped by Mutations at Indels. 1998, 161, 4785-4794	4
37	CBF <b>B</b> (AML2) Is Induced by TGF- <b>I</b> I1 to Bind and Activate the Mouse Germline Ig <b>I</b> Promoter. <b>1998</b> , 161, 6751-6760	25
36	An Essential Role for NF-IB in IL-18-Induced IFN-IExpression in KG-1 Cells. <b>1999</b> , 162, 5063-5069	17
35	Central Role of Transcription Factor NF-IL6 for Cytokine and Iron-Mediated Regulation of Murine Inducible Nitric Oxide Synthase Expression. <b>1999</b> , 162, 6171-6177	30
34	Active Sites in Complement Components C5 and C3 Identified by Proximity to Indels in the C3/4/5 Protein Family. <b>1999</b> , 162, 6580-6588	2
33	Structure and Function of the Glycosaminoglycan Binding Site of Chemokine Macrophage-Inflammatory Protein-1 <b>1999</b> , 163, 2120-2127	18
32	Functional Synergism of STAT6 with Either NF- <b>B</b> or PU.1 to Mediate IL-4-Induced Activation of IgE Germline Gene Transcription. <b>1999</b> , 163, 4383-4391	21
31	Staphylococcal Enterotoxin H Displays Unique MHC Class II-Binding Properties. <b>1999</b> , 163, 6686-6693	10

30	A Class IV Adenylate Cyclase, CyaB, Is Required for Capsule Polysaccharide Production and Biofilm Formation in Vibrio parahaemolyticus.	0
29	Introduction to Directed Evolution and Rational Design as Protein Engineering Techniques. 2023, 1-28	O
28	Heteromerization of Short-Chain trans -Prenyltransferase Controls Precursor Allocation within a Plastidial Terpenoid Network.	1
27	A Tailored Strategy to Crosslink the Aspartate Transcarbamoylase Domain of the Multienzymatic Protein CAD. <b>2023</b> , 28, 660	O
26	Dimerisation of the Yeast K+ Translocation Protein Trk1 Depends on the K+ Concentration. <b>2023</b> , 24, 398	O
25	Outside the limit: questioning the distance restrictions for cooperative miRNA binding sites. <b>2023</b> , 28,	O
24	RyR2 Serine-2030 PKA Site Governs Ca 2+ Release Termination and Ca 2+ Alternans. 2023, 132,	O
23	Intracellular Experimental Evolution of Francisella tularensis Subsp. holarctica Live Vaccine Strain (LVS) to Antimicrobial Resistance. <b>2023</b> , 9, 308-321	О
22	Gene Mutagenesis Methods in Directed Evolution and Rational Enzyme Design. 2023, 59-139	O
21	TReSR: A PCR-compatible DNA sequence design method for engineering proteins containing tandem repeats.	О
20	Peptide linker increased the stability of pneumococcal fusion protein vaccine candidate. 11,	O
19	Optimization Strategy of Overlap Extension PCR Based on Parallel Template. 2023, 13, 62-72	O
18	Comparative biochemical characterization of mammalian-derived CYP11A1s with cholesterol side-chain cleavage activities. <b>2023</b> , 229, 106268	0
17	The Mycotoxin Patulin Inhibits the Mitochondrial Carnitine/Acylcarnitine Carrier (SLC25A20) by Interaction with Cys136 Implications for Human Health. <b>2023</b> , 24, 2228	O
16	Uptake of Selenite by Rahnella aquatilis HX2 Involves the Aquaporin AqpZ and Na+/H+ Antiporter NhaA. <b>2023</b> , 57, 2371-2379	0
15	Blue-to-Red TagFT, mTagFT, mTsFT, and Green-to-FarRed mNeptusFT2 Proteins, Genetically Encoded True and Tandem Fluorescent Timers. <b>2023</b> , 24, 3279	Ο
14	The Terminal Extensions of Dbp7 Influence Growth and 60S Ribosomal Subunit Biogenesis in Saccharomyces cerevisiae. <b>2023</b> , 24, 3460	О
13	Function of the bacteriophage P2 baseplate central spike Apex domain in the infection process.	O

12	One-Pot Biosynthesis of 2-Keto-4-hydroxybutyrate from Cheap C1 Compounds Using Rationally Designed Pyruvate Aldolase and Methanol Dehydrogenase. <b>2023</b> , 71, 4328-4336	О
11	Novel Xanomeline-Containing Bitopic Ligands of Muscarinic Acetylcholine Receptors: Design, Synthesis and FRET Investigation. <b>2023</b> , 28, 2407	o
10	Phosphatase regulatory subunit MYPT2 knockout partially compensates for the cardiac dysfunction in mice caused by lack of myosin light chain kinase 3. <b>2023</b> , 299, 104584	O
9	Enterohemorrhagic Escherichia coli responds to gut microbiota metabolites by altering metabolism and activating stress responses. <b>2023</b> , 15,	o
8	Understanding the Necessity of Regulatory Protein Machinery in Heterologous Expression of Class-III Type of Ocins.	O
7	Copper Efflux System Required in Murine Lung Infection by Haemophilus influenzae Composed of a Canonical ATPase Gene and Tandem Chaperone Gene Copies.	O
6	Combination of engineering the substrate and Ca2+ binding domains of heparinase I to improve the catalytic activity. 1-9	0
5	TReSR: A PCR-compatible DNA sequence design method for engineering proteins containing tandem repeats. <b>2023</b> , 18, e0281228	o
4	Identification and genetic characterisatin of cathepsin L in Demodex.	0
3	A moonlighting role for LysM peptidoglycan binding domains underpins Enterococcus faecalis daughter cell separation. <b>2023</b> , 6,	o
2	Computational and cellular exploration of the protein-protein interaction between Vibrio fischeri STAS domain protein SypA and serine kinase SypE. <b>2023</b> , 16,	O
1	Activation of Tm-2 2 resistance is mediated by a conserved cysteine essential for tobacco mosaic virus movement.	0