

[19] Rapid and efficient site-specific mutagenesis witho

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Histidine phosphorylation and phosphoryl group transfer in bacterial chemotaxis. <i>Nature</i> , 1988, 336, 139-143.	13.7	431
2	Enhanced protein thermostability from designed mutations that interact with $\alpha$ -helix dipoles. <i>Nature</i> , 1988, 336, 651-656.	13.7	307
3	Purification and properties of mitochondrial uracil-DNA glycosylase from rat liver. <i>Biochemistry</i> , 1988, 27, 6742-6751.	1.2	88
4	Site-directed mutagenesis and high-resolution NMR spectroscopy of the active site of porphobilinogen deaminase. <i>Biochemistry</i> , 1988, 27, 7984-7990.	1.2	62
5	Yeast iso-1-cytochrome c: Genetic analysis of structural requirements. <i>FEBS Letters</i> , 1988, 231, 275-283.	1.3	64
6	New yeast-Escherichia coli shuttle vectors constructed with in vitro mutagenized yeast genes lacking six-base pair restriction sites. <i>Gene</i> , 1988, 74, 527-534.	1.0	2,923
7	A multisite-directed mutagenesis using T7 DNA polymerase: application for reconstructing a mammalian gene. <i>Gene</i> , 1988, 69, 81-89.	1.0	52
8	Point mutations in the human vitamin D receptor gene associated with hypocalcemic rickets. <i>Science</i> , 1988, 242, 1702-1705.	6.0	495
9	Site-directed mutagenesis of $\beta$ -galactosidase (E. coli) reveals that tyr-503 is essential for activity. <i>Biochemical and Biophysical Research Communications</i> , 1988, 152, 1050-1055.	1.0	40
10	Separation and characterization of a poly(A) polymerase and a cleavage/specificity factor required for pre-mRNA polyadenylation. <i>Cell</i> , 1988, 52, 731-742.	13.5	204
11	Antibody-selectable filamentous fd phage vectors: affinity purification of target genes. <i>Gene</i> , 1988, 73, 305-318.	1.0	840
12	Mutational analysis of the tRNA mimicry of brome mosaic virus RNA. <i>Journal of Molecular Biology</i> , 1988, 201, 41-55.	2.0	74
13	Site-directed mutations in the VDJ junctional region of a T cell receptor $\beta$ chain cause changes in antigenic peptide recognition. <i>Cell</i> , 1988, 54, 473-484.	13.5	181
14	Alternative splicing of SV40 early pre-mRNA is determined by branch site selection.. <i>Genes and Development</i> , 1988, 2, 1460-1475.	2.7	81
15	Efficiency of translation initiation by non-AUG codons in <i>Saccharomyces cerevisiae</i> .. <i>Molecular and Cellular Biology</i> , 1988, 8, 4533-4536.	1.1	81
16	Cellular transcription factors and regulation of IL-2 receptor gene expression by HTLV-I tax gene product. <i>Science</i> , 1988, 241, 89-92.	6.0	370
17	5' splice site selection in yeast: genetic alterations in base-pairing with U1 reveal additional requirements.. <i>Genes and Development</i> , 1988, 2, 1258-1267.	2.7	294
18	Cysteine residues in the zinc finger and amino acids adjacent to the finger are necessary for DNA binding by the LAC9 regulatory protein of <i>Kluyveromyces lactis</i> .. <i>Molecular and Cellular Biology</i> , 1988, 8, 3726-3733.	1.1	39

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19	Sequence and structural requirements of a herpes simplex viral DNA replication origin.. <i>Molecular and Cellular Biology</i> , 1988, 8, 4018-4027.	1.1	68
20	The 289-amino acid E1A protein of adenovirus binds zinc in a region that is important for trans-activation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 6450-6454.	3.3	124
21	Uracil-DNA glycosylase inhibitor of bacteriophage PBS2: cloning and effects of expression of the inhibitor gene in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1988, 170, 1082-1091.	1.0	60
22	Evidence that the M2 membrane-spanning region lines the ion channel pore of the nicotinic receptor. <i>Science</i> , 1988, 242, 1578-1581.	6.0	377
23	Nonsense mutations in the human beta-globin gene affect mRNA metabolism.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 2056-2060.	3.3	234
24	Dual translational initiation sites control function of the lambda S gene.. <i>EMBO Journal</i> , 1989, 8, 3501-3510.	3.5	80
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26	The unique insert of cellular and viral fms protein tyrosine kinase domains is dispensable for enzymatic and transforming activities.. <i>EMBO Journal</i> , 1989, 8, 2029-2037.	3.5	66
27	Analysis of mutational alterations in the hydrophilic segment of the maltose-binding protein signal peptide. <i>Journal of Bacteriology</i> , 1989, 171, 2303-2311.	1.0	84
28	Gene VI of figwort mosaic virus (caulimovirus group) functions in posttranscriptional expression of genes on the full-length RNA transcript.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 9203-9207.	3.3	100
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30	A protein required for transcriptional regulation of <i>Agrobacterium</i> virulence genes spans the cytoplasmic membrane. <i>Journal of Bacteriology</i> , 1989, 171, 1616-1622.	1.0	99
31	Ntr-like promoters and upstream regulatory sequence ftr are required for transcription of a developmentally regulated <i>Caulobacter crescentus</i> flagellar gene. <i>Journal of Bacteriology</i> , 1989, 171, 3218-3227.	1.0	88
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33	â€˜Sticky feetâ€™-directed mutagenesis and its application to swapping antibody domains. <i>Nucleic Acids Research</i> , 1989, 17, 10163-10170.	6.5	68
34	Mutations in the glucocorticoid receptor zinc finger region that distinguish interdigitated DNA binding and transcriptional enhancement activities.. <i>Genes and Development</i> , 1989, 3, 1590-1601.	2.7	226
35	Sequence specificity of the P6 pairing for splicing of the group Itdintron of phage T4. <i>Nucleic Acids Research</i> , 1989, 17, 9147-9163.	6.5	20
36	In vitro import of cytochrome c peroxidase into the intermembrane space: release of the processed form by intact mitochondria.. <i>Journal of Cell Biology</i> , 1989, 109, 101-112.	2.3	34

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37	A method for introducing random single point deletions in specific DNA target sequences using oligonucleotides. <i>Nucleic Acids Research</i> , 1989, 17, 4015-4023.	6.5	7
38	Compensatory mutations demonstrate that P8 and P6 are RNA secondary structure elements important for processing of a group I intron. <i>Nucleic Acids Research</i> , 1989, 17, 675-689.	6.5	52
39	Mammalian pre-mRNA branch site selection by U2 snRNP involves base pairing.. <i>Genes and Development</i> , 1989, 3, 1553-1561.	2.7	309
40	The Nucleotide Sequence of a Soybean Mosaic Virus Coat Protein-coding Region and Its Expression in <i>Escherichia coli</i> , <i>Agrobacterium tumefaciens</i> and Tobacco Callus. <i>Journal of General Virology</i> , 1989, 70, 1853-1860.	1.3	76
41	Mutant potassium channels with altered binding of charybdotoxin, a pore-blocking peptide inhibitor. <i>Science</i> , 1989, 245, 1382-1385.	6.0	356
42	Cleavage of HIV-1 gag Polyprotein Synthesized In Vitro: Sequential Cleavage by the Viral Protease. <i>AIDS Research and Human Retroviruses</i> , 1989, 5, 577-591.	0.5	193
43	Positive and negative regulation of the gene for transcription factor IIIA in <i>Xenopus laevis</i> oocytes.. <i>Genes and Development</i> , 1989, 3, 651-662.	2.7	71
44	Translational repression by bacteriophage MS2 coat protein does not require cysteine residues. <i>Nucleic Acids Research</i> , 1989, 17, 6017-6027.	6.5	17
45	Restoration of a translational stop-start overlap reinstates translational coupling in a mutant trp operon of the <i>Escherichia coli</i> tryptophan operon. <i>Nucleic Acids Research</i> , 1989, 17, 9333-9340.	6.5	35
46	Single amino acid changes that alter the DNA sequence specificity of the DNA-[N6-adenine] methyltransferase (Dam) of bacteriophage T4. <i>Nucleic Acids Research</i> , 1989, 17, 8149-8157.	6.5	18
47	Infectious TYMV RNA from cloned cDNA: effects in vitro and in vivo of point substitutions in the initiation codons of two extensively overlapping ORFs. <i>Nucleic Acids Research</i> , 1989, 17, 4675-4687.	6.5	120
48	Transcription of a human U6 small nuclear RNA gene in vivo withstands deletion of intragenic sequences but not of an upstream TATATA box. <i>Nucleic Acids Research</i> , 1989, 17, 7371-7379.	6.5	68
49	Transcription factor E2F is required for efficient expression of the hamster dihydrofolate reductase gene in vitro and in vivo.. <i>Molecular and Cellular Biology</i> , 1989, 9, 4994-5002.	1.1	353
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54	High efficiency transformation of intact yeast cells using single stranded nucleic acids as a carrier. <i>Current Genetics</i> , 1989, 16, 339-346.	0.8	2,191

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55	The pro-peptide is not necessary for active renin secretion from transfected mammalian cells. <i>Proteins: Structure, Function and Bioinformatics</i> , 1989, 5, 259-265.	1.5	21
56	Deletions and replacements of omega loops in yeast iso-1-cytochrome c. <i>Proteins: Structure, Function and Bioinformatics</i> , 1989, 6, 372-381.	1.5	38
57	Cysteine-22 and cysteine-38 are not essential for the functions of maltoporin (LamB protein). <i>FEMS Microbiology Letters</i> , 1989, 61, 335-339.	0.7	14
58	Complete mutagenesis of the HIV-1 protease. <i>Nature</i> , 1989, 340, 397-400.	13.7	357
59	Changing Fos oncoprotein to a Jun-independent DNA-binding protein with GCN4 dimerization specificity by swapping "leucine zippers". <i>Nature</i> , 1989, 341, 74-76.	13.7	94
60	Substantial increase of protein stability by multiple disulphide bonds. <i>Nature</i> , 1989, 342, 291-293.	13.7	412
61	Directed mutagenesis to probe the structure and function of photosystem II. <i>Physiologia Plantarum</i> , 1989, 77, 436-443.	2.6	13
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64	Mutations in the cytoplasmic domain of the 275 kd mannose 6-phosphate receptor differentially alter lysosomal enzyme sorting and endocytosis. <i>Cell</i> , 1989, 57, 787-796.	13.5	287
65	Ectopic expression of the proto-oncogene <i>int-1</i> in <i>Xenopus</i> embryos leads to duplication of the embryonic axis. <i>Cell</i> , 1989, 58, 1075-1084.	13.5	482
66	Intron mobility in the T-even phages: High frequency inheritance of group I introns promoted by intron open reading frames. <i>Cell</i> , 1989, 56, 455-465.	13.5	142
67	Regulation of p34cdc2 protein kinase during mitosis. <i>Cell</i> , 1989, 58, 361-372.	13.5	584
68	Analysis of the promoter region of the melanin locus from <i>Streptomyces antibioticus</i> . <i>Gene</i> , 1989, 84, 267-277.	1.0	17
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71	Hydrophobic interactions via mutants of <i>Escherichia coli</i> dihydrofolate reductase: separation of binding and catalysis. <i>Biochemistry</i> , 1989, 28, 3025-3031.	1.2	52
72	Analysis of the ribonuclease H activity of HIV-1 reverse transcriptase using RNA.cntdot.DNA hybrid substrates derived from the gag region of HIV-1. <i>Biochemistry</i> , 1989, 28, 9088-9094.	1.2	29

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76	Random and site-directed mutagenesis of bacterial luciferase: investigation of the aldehyde binding site. <i>Biochemistry</i> , 1989, 28, 2684-2689.	1.2	27
77	Use of site-directed mutagenesis to destabilize native apomyoglobin relative to folding intermediates. <i>Biochemistry</i> , 1989, 28, 4415-4422.	1.2	131
78	Dissection of the effector-binding site and complementation studies of <i>Escherichia coli</i> phosphofructokinase using site-directed mutagenesis. <i>Biochemistry</i> , 1989, 28, 6841-6847.	1.2	42
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80	Identification of a small intracellular region of the muscarinic m3 receptor as a determinant of selective coupling to PI turnover. <i>FEBS Letters</i> , 1989, 258, 133-136.	1.3	101
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86	Transcription terminates near the poly(A) site in the <i>CYC1</i> gene of the yeast <i>Saccharomyces cerevisiae</i> .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 8348-8352.	3.3	86
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99	Site-directed mutagenesis of the phosphocarrier protein. IIIIGlc, a major signal-transducing protein in Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 4052-4055.	3.3	65
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108	Sequences downstream of AAUAAA signals affect pre-mRNA cleavage and polyadenylation in vitro both directly and indirectly.. Molecular and Cellular Biology, 1989, 9, 1759-1771.	1.1	70

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110	Bacterial luciferase alpha beta fusion protein is fully active as a monomer and highly sensitive in vivo to elevated temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 6528-6532.	3.3	88
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114	Lysis protein S of phage lambda functions in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bacteriology</i> , 1990, 172, 7275-7277.	1.0	24
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118	The insulin receptor with phenylalanine replacing tyrosine-1146 provides evidence for separate signals regulating cellular metabolism and growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 3358-3362.	3.3	116
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120	Efficient site-specific cleavage by RNase MRP requires interaction with two evolutionarily conserved mitochondrial RNA sequences. <i>Molecular and Cellular Biology</i> , 1990, 10, 2191-2201.	1.1	50
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125	The permissive role of glucocorticoids on interleukin-1 stimulation of angiotensinogen gene transcription is mediated by an interaction between inducible enhancers. <i>Molecular and Cellular Biology</i> , 1990, 10, 4389-4395.	1.1	62
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