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## Improved tools for biological sequence comparison

DOI: 10.1073/pnas.85.8.2444

Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 2444-8.

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#	Paper	IF	Citations
1971	Bioinformatics Applications in Grid Computing Environments. 301-323		1
1970	Bibliography. 255-272		
1969	Supercomputing in molecular biology: applications to sequence analysis. <b>1988</b> , 7, 27-30		6
1968	Parallel processing of biological sequence comparison algorithms. <b>1988</b> , 17, 259-275		44
1967	Interspecific comparison of the period gene of Drosophila reveals large blocks of non-conserved coding DNA.. <b>1988</b> , 7, 3929-3937		90
1966	Sequence and transcription mapping of Bacillus subtilis competence genes comB and comA, one of which is related to a family of bacterial regulatory determinants. <b>1989</b> , 171, 5362-75		95
1965	Nucleotide sequence and genetic organization of the Bacillus subtilis comG operon. <b>1989</b> , 171, 5386-404		161
1964	Nucleotide sequence and expression in Escherichia coli of the 3-hydroxy-3-methylglutaryl coenzyme A lyase gene of Pseudomonas mevalonii. <b>1989</b> , 171, 6468-72		29
1963	Mall, a novel protein involved in regulation of the maltose system of Escherichia coli, is highly homologous to the repressor proteins GalR, CytR, and LacI. <b>1989</b> , 171, 4888-99		64
1962	The Drosophila hairy protein acts in both segmentation and bristle patterning and shows homology to N-myc.. <b>1989</b> , 8, 3095-3103		180
1961	Molecular analysis of lcrGVH, the V antigen operon of Yersinia pestis. <b>1989</b> , 171, 5646-53		85
1960	Evolution of a tRNA operon in gamma purple bacteria. <b>1989</b> , 171, 6446-54		9
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1958	Cloning and sequence analysis of flaA, a gene encoding a Spirochaeta aurantia flagellar filament surface antigen. <b>1989</b> , 171, 1692-7		40
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1955	Structure of the cel-3 gene from Fibrobacter succinogenes S85 and characteristics of the encoded gene product, endoglucanase 3. <b>1989</b> , 171, 5587-95		69

1954	Cloning and expression in <i>Escherichia coli</i> of <i>Haemophilus influenzae</i> fimbrial genes establishes adherence to oropharyngeal epithelial cells.. <b>1989</b> , 8, 3535-3540		36
1953	Extensive homology between the <i>Escherichia coli</i> K-12 SerC(PdxF) aminotransferase and a protein encoded by a progesterone-induced mRNA in rabbit and human endometria. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 8379	20.1	10
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1945	Evidence for a potential common T-cell epitope between human thyroid peroxidase and human thyroglobulin with implications for the pathogenesis of autoimmune thyroid disease. <b>1989</b> , 5, 101-6		35
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1919	The product of the PRP4 gene of <i>S. cerevisiae</i> shows homology to beta subunits of G proteins. <b>1989</b> , 58, 811-2	86

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1857	The trypanosome leucine repeat gene in the variant surface glycoprotein expression site encodes a putative metal-binding domain and a region resembling protein-binding domains of yeast, <i>Drosophila</i> , and mammalian proteins. <b>1990</b> , 10, 6436-44		52
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1850	Human cells contain a DNA-activated protein kinase that phosphorylates simian virus 40 T antigen, mouse p53, and the human Ku autoantigen. <b>1990</b> , 10, 6472-81		384
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1839	Structure of the human sialoporphin (CD43) gene. Identification of features atypical of genes encoding integral membrane proteins. <b>1990</b> , 270, 569-76		36
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1836	Organization and sequence analysis of the 2,4-dichlorophenol hydroxylase and dichlorocatechol oxidative operons of plasmid pJP4. <b>1990</b> , 172, 2351-9		260
1835	lcrR, a low-Ca <sup>2+</sup> (+)-response locus with dual Ca <sup>2+</sup> (+)-dependent functions in <i>Yersinia pestis</i> . <b>1990</b> , 172, 4661-71		35
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1831	Developmental sensory transduction in <i>Myxococcus xanthus</i> involves methylation and demethylation of FrzCD. <b>1990</b> , 172, 4877-87		98
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1824	Sequence homology shared by neurofibromatosis type-1 gene and IRA-1 and IRA-2 negative regulators of the RAS cyclic AMP pathway. <b>1990</b> , 347, 291-4	194
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1822	Cloning and sequence analysis of the genes encoding the alpha and beta subunits of the E1 component of the pyruvate dehydrogenase multienzyme complex of <i>Bacillus stearothermophilus</i> . <b>1990</b> , 191, 337-46	48
1821	The primary structure of artemin from <i>Artemia</i> cysts. <b>1990</b> , 193, 737-50	33
1820	Cloning and nucleotide sequence of cDNA encoding human liver serine-pyruvate aminotransferase. <b>1990</b> , 194, 9-18	19
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1816	Characterization of a myosin-like antigen from <i>Onchocerca volvulus</i> . <b>1990</b> , 40, 213-24	24
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1505	Sequence of a HeLa cDNA provides the DNA binding domain and carboxy terminus of HE47: a human helix-loop-helix protein related to the enhancer binding factor E47. <b>1991</b> , 2, 197-202		6

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1503	Identification and sequencing of the <i>Choristoneura biennis</i> entomopoxvirus DNA polymerase gene. <b>1991</b> , 2, 39-45	15
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1500	Comparison of benzyl alcohol dehydrogenases and benzaldehyde dehydrogenases from the benzyl alcohol and mandelate pathways in <i>Acinetobacter calcoaceticus</i> and from the TOL-plasmid-encoded toluene pathway in <i>Pseudomonas putida</i> . N-terminal amino acid sequences, amino acid compositions and immunological cross-reactions. <b>1991</b> , 273(Pt 1), 99-107	15
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1498	A sequence similarity between proteins involved in initiation and termination of bacterial chromosome replication. <b>1991</b> , 275 ( Pt 3), 823	11
1497	Identification of a functionally conserved surface region of rat cytochromes P450IA. <b>1991</b> , 278 ( Pt 3), 749-57	28
1496	Purification and partial characterization of rat factor D. <b>1991</b> , 279 ( Pt 3), 775-9	6
1495	More von Willebrand factor type A domains? Sequence similarities with malaria thrombospondin-related anonymous protein, dihydropyridine-sensitive calcium channel and inter-alpha-trypsin inhibitor. <b>1991</b> , 279 ( Pt 3), 908-10	44
1494	Evidence that the central region of glycoprotein IIIa participates in integrin receptor function. <b>1991</b> , 276 ( Pt 3), 725-32	13
1493	Developmental expression of rat insulin-like growth factor binding protein-2 by astrocytic glial cells in culture. <b>1991</b> , 129, 1066-74	22
1492	Viral homologies with myelin basic protein. <b>1991</b> , 12, 464-5	5
1491	Generation of species-specific DNA probes for <i>Leishmania aethiopica</i> . <b>1991</b> , 44, 279-86	16
1490	Sequence of the gene encoding an immunodominant microneme protein of <i>Eimeria tenella</i> . <b>1991</b> , 49, 277-88	114
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1487	Cloning and expression of complementary DNA encoding an antigen of <i>Trichinella spiralis</i> . <b>1991</b> , 45, 331-6	41

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1484	Primary structure of a <i>Plasmodium falciparum</i> rhoptry antigen. <b>1991</b> , 49, 99-110	66
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1457	Amino acid sequence of an extracellular, phosphate-starvation-induced ribonuclease from cultured tomato ( <i>Lycopersicon esculentum</i> ) cells. <b>1991</b> , 198, 1-6	82
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1039	Identification of proteins phosphorylated by ATP during sporulation of <i>Bacillus subtilis</i> . <b>1992</b> , 174, 2474-7	17
1038	Production of a conserved adhesin by the human gastroduodenal pathogen <i>Helicobacter pylori</i> . <b>1992</b> , 174, 2539-47	54
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841	A new macrophage differentiation antigen which is a member of the scavenger receptor superfamily. <b>1993</b> , 23, 2320-5	213
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824	Characterization of beta 2-microglobulin transcripts from two teleost species. <b>1993</b> , 38, 27-34	60
823	A novel coding sequence belonging to a new multicopy gene family mapping within the human MHC class I region. <b>1993</b> , 38, 47-53	72
822	Cloning and sequence analysis of cDNAs encoding the MHC class II beta chain in Atlantic salmon ( <i>Salmo salar</i> ). <b>1993</b> , 37, 437-41	91
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820	The phylogeny of echinoderm classes based on mitochondrial gene arrangements. <b>1993</b> , 36, 545-54	162
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815	Molecular analysis of two genes between <i>let-653</i> and <i>let-56</i> in the <i>unc-22(IV)</i> region of <i>Caenorhabditis elegans</i> . <b>1993</b> , 236, 289-98	20
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782	Targeted cloning of a subfamily of LINE-1 elements by subfamily-specific LINE-1-PCR. <b>1993</b> , 4, 193-201	5
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780	A high copy number of yeast gamma-glutamylcysteine synthetase suppresses a nuclear mutation affecting mitochondrial translation. <b>1993</b> , 23, 408-13	32
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778	Yeast single copy gene <i>URP1</i> is a homolog of rat ribosomal protein gene <i>L21</i> . <b>1993</b> , 23, 15-8	5
777	Two amino-acid biosynthetic genes are encoded on the plastid genome of the red alga <i>Porphyra umbilicalis</i> . <b>1993</b> , 23, 59-65	24
776	Definition, distribution, and use of a conserved Bovidae retroposon element sequence motif. <b>1993</b> , 4, 153-8	12
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774	Cloning and genetic analysis of the gene encoding a new protein kinase in <i>Saccharomyces cerevisiae</i> . <b>1993</b> , 9, 141-50	10
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771	The complete sequence of a 19,482 bp segment located on the right arm of chromosome II from <i>Saccharomyces cerevisiae</i> . <b>1993</b> , 9, 189-99	25
770	Sequence of a 7.8 kb segment on the left arm of yeast chromosome XI reveals four open reading frames, including the <i>CAP1</i> gene, an intron-containing gene and a gene encoding a homolog to the mammalian <i>UOG-1</i> gene. <b>1993</b> , 9, 279-87	11
769	Molecular genetics in <i>Saccharomyces kluverii</i> : the <i>HIS3</i> homolog and its use as a selectable marker gene in <i>S. kluverii</i> and <i>Saccharomyces cerevisiae</i> . <b>1993</b> , 9, 351-61	29
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767	<i>RIM2</i> , <i>MSI1</i> and <i>PGI1</i> are located within an 8 kb segment of <i>Saccharomyces cerevisiae</i> chromosome II, which also contains the putative ribosomal gene <i>L21</i> and a new putative essential gene with a leucine zipper motif. <b>1993</b> , 9, 645-59	22

766	DNA sequence analysis of the YCN2 region of chromosome XI in <i>Saccharomyces cerevisiae</i> . <b>1993</b> , 9, 661-7	16
765	TA-repeat microsatellites are closely associated with ARS consensus sequences in yeast chromosome III. <b>1993</b> , 9, 753-9	11
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763	CLG1, a new cyclin-like gene of <i>Saccharomyces cerevisiae</i> . <b>1993</b> , 9, 929-31	9
762	A data-base of chromosome III of <i>Saccharomyces cerevisiae</i> . <b>1993</b> , 9, 941-1029	32
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756	Mammalian integral membrane receptors are homologous to facilitators and antiporters of yeast, fungi, and eubacteria. <b>1993</b> , 2, 20-30	68
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744	Identification of cpsD, a gene essential for type III capsule expression in group B streptococci. <b>1993</b> , 8, 843-55	105
743	Sequence and molecular analysis of the nifL gene of <i>Azotobacter vinelandii</i> . <b>1993</b> , 9, 869-79	83
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727	Bacterial interspersed mosaic elements (BIMEs) are present in the genome of <i>Klebsiella</i> . <b>1993</b> , 7, 537-44	22
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723	The ORF1 of the gentamicin-resistance operon ( <i>aac</i> ) of <i>Pseudomonas aeruginosa</i> encodes adenosine 5'-phosphosulphate kinase. <b>1993</b> , 9, 1223-7	4
722	The NodL and NodJ proteins from <i>Rhizobium</i> and <i>Bradyrhizobium</i> strains are similar to capsular polysaccharide secretion proteins from gram-negative bacteria. <b>1993</b> , 8, 369-77	45
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719	Molecular analysis of the <i>hsp</i> ( <i>groE</i> ) operon of <i>Leptospira interrogans</i> serovar <i>copenhageni</i> . <b>1993</b> , 8, 739-51	32
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