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

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798	Sequence determination and mutational analysis of the lly locus of <i>Legionella pneumophila</i> . 1994 , 62, 1109-17	38
797	Analysis of genes encoding two unique type IIa immunoglobulin G-binding proteins expressed by a single group A streptococcal isolate. 1994 , 62, 1336-47	25
796	Cloning and B-cell-epitope mapping of MPT64 from <i>Mycobacterium tuberculosis</i> H37Rv. 1994 , 62, 2058-64	54
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793	Influence of site specifically altered Mip proteins on intracellular survival of <i>Legionella pneumophila</i> in eukaryotic cells. 1995 , 63, 4576-83	97
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761	Single primer pair for amplifying segments of distinct Shiga-like-toxin genes by polymerase chain reaction. 1989 , 27, 2751-7	207
760	Detection of <i>Rickettsia rickettsii</i> DNA in clinical specimens by using polymerase chain reaction technology. 1989 , 27, 2866-8	125
759	Detection of enterotoxigenic <i>Escherichia coli</i> after polymerase chain reaction amplification with a thermostable DNA polymerase. 1989 , 27, 261-5	156
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749	Rapid quantitation of DNA spot hybridization by flatbed scintillation counting. 1990 , 28, 159-62	2
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747	Detection of Epstein-Barr virus by polymerase chain reaction. 1990 , 28, 2187-90	94
746	Polymerase chain reaction for detection of Mycobacterium tuberculosis. 1990 , 28, 2200-4	127
745	Identification of a double-stranded RNA virus by using polymerase chain reaction and magnetic separation of the synthesized DNA segments. 1990 , 28, 2275-8	36
744	Rapid prenatal diagnosis of congenital Toxoplasma infection by using polymerase chain reaction and amniotic fluid. 1990 , 28, 2297-301	148
743	Polymerase chain reaction amplification of the constant and variable regions of the Bacteroides nodosus fimbrial gene. 1990 , 28, 2456-61	3
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741	Rapid and simple method for purification of nucleic acids. 1990 , 28, 495-503	3690
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739	Rapid and specific detection of verotoxin genes in <i>Escherichia coli</i> by the polymerase chain reaction. 1990 , 28, 540-5	243
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737	Rapid microbial detection and enumeration using gel microdroplets and colorimetric or fluorescence indicator systems. 1990 , 28, 1002-8	17
736	Molecular detection and identification of enteroviruses using enzymatic amplification and nucleic acid hybridization. 1990 , 28, 843-50	186
735	Use of highly specific DNA probes and the polymerase chain reaction to detect <i>Mycobacterium paratuberculosis</i> in Johne's disease. 1990 , 28, 933-7	242
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733	Detection by polymerase chain reaction amplification of human herpesvirus 6 DNA in peripheral blood of patients with exanthem subitum. 1990 , 28, 970-4	78
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727	Simple, sensitive, and specific detection of human immunodeficiency virus type 1 in clinical specimens by polymerase chain reaction with nested primers. 1990 , 28, 1560-4	194
726	Detection and identification of mycobacteria by amplification of rRNA. 1990 , 28, 1751-9	365
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724	Detection of bluetongue virus serotype 17 in <i>Culicoides variipennis</i> by nucleic acid blot and sandwich hybridization techniques. 1990 , 28, 1952-6	5
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721	Identification of toxigenic <i>Clostridium difficile</i> by the polymerase chain reaction. 1991 , 29, 33-7	146
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719	Sensitive detection of <i>Treponema pallidum</i> by using the polymerase chain reaction. 1991 , 29, 62-9	121
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717	Amplification of a species-specific DNA fragment of <i>Mycobacterium tuberculosis</i> and its possible use in diagnosis. 1991 , 29, 2163-8	156
716	Diagnostic application of polymerase chain reaction for detection of <i>Ehrlichia risticii</i> in equine monocytic ehrlichiosis (Potomac horse fever). 1991 , 29, 2228-33	24
715	Differences in genomic DNA sequences between pathogenic and nonpathogenic isolates of <i>Entamoeba histolytica</i> identified by polymerase chain reaction. 1991 , 29, 2234-9	62
714	Detection of <i>Escherichia coli</i> heat-stable enterotoxin genes in pig stool specimens by an immobilized, colorimetric, nested polymerase chain reaction. 1991 , 29, 2375-9	53
713	Evaluation of infection with human immunodeficiency virus type 1 by using nonisotopic solution hybridization for detection of polymerase chain reaction-amplified proviral DNA. 1991 , 29, 2461-7	17
712	Comparative sequence analysis of human cytomegalovirus strains. 1991 , 29, 2494-502	33
711	Polymerase chain reaction for detection of the cholera enterotoxin operon of <i>Vibrio cholerae</i> . 1991 , 29, 2517-21	115
710	Use of a signature nucleotide sequence of hepatitis C virus for detection of viral RNA in human serum and plasma. 1991 , 29, 2528-34	98
709	A cloned DNA probe identifies <i>Cowdria ruminantium</i> in <i>Amblyomma variegatum</i> ticks. 1991 , 29, 2571-7	52
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707	Amplification of repetitive DNA for the specific detection of <i>Naegleria fowleri</i> . 1991 , 29, 227-30	22
706	Differentiation of pathogenic from nonpathogenic <i>Entamoeba histolytica</i> by restriction fragment analysis of a single gene amplified in vitro. 1991 , 29, 250-5	92
705	Detection of animal and human group B rotaviruses in fecal specimens by polymerase chain reaction. 1991 , 29, 539-43	28
704	Comparison of in vitro culture and polymerase chain reaction for detection of <i>Borrelia burgdorferi</i> in tissue from experimentally infected animals. 1991 , 29, 731-7	46

703	Detection of genes for fimbrial antigens and enterotoxins associated with <i>Escherichia coli</i> serogroups isolated from pigs with diarrhea. 1991 , 29, 745-52	83
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701	Detection of rubella virus gene sequences by enzymatic amplification and direct sequencing of amplified DNA. 1991 , 29, 945-52	28
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699	Polymerase chain reaction: trenches to benches. 1991 , 29, 1281-5	133
698	Detection of varicella-zoster virus DNA by polymerase chain reaction in the cerebrospinal fluid of patients suffering from neurological complications associated with chicken pox or herpes zoster. 1991 , 29, 1513-6	132
697	Optimization of a rapid nonisotopic DNA probe assay for <i>Plasmodium falciparum</i> in the Gambia. 1991 , 29, 1517-9	11
696	Strain analysis of hepatitis B virus on the basis of restriction endonuclease analysis of polymerase chain reaction products. 1991 , 29, 1640-4	21
695	Sequence variants of human papillomavirus type 16 in clinical samples permit verification and extension of epidemiological studies and construction of a phylogenetic tree. 1991 , 29, 1765-72	97
694	Rapid purification of hepatitis B virus DNA from serum. 1991 , 29, 1804-11	70
693	Detection of Shiga toxin-producing <i>Shigella dysenteriae</i> type 1 and <i>Escherichia coli</i> by using polymerase chain reaction with incorporation of digoxigenin-11-dUTP. 1991 , 29, 1910-4	37
692	Detection and strain differentiation of <i>Chlamydia psittaci</i> mediated by a two-step polymerase chain reaction. 1991 , 29, 1969-75	39
691	Detection by polymerase chain reaction of <i>Treponema pallidum</i> DNA in cerebrospinal fluid from neurosyphilis patients before and after antibiotic treatment. 1991 , 29, 1976-84	94
690	Rapid and biologically safe diagnosis of African swine fever virus infection by using polymerase chain reaction. 1992 , 30, 1-8	21
689	Amplification and analysis of specific DNA and RNA sequences of bovine leukemia virus from infected cows by polymerase chain reaction. 1992 , 30, 185-91	24
688	Sensitive detection of <i>Helicobacter pylori</i> by using polymerase chain reaction. 1992 , 30, 192-200	262
687	Detection of <i>Babesia bigemina</i> -infected carriers by polymerase chain reaction amplification. 1992 , 30, 2576-82	80
686	Detection of <i>Mycoplasma pneumoniae</i> in clinical samples from pediatric patients by polymerase chain reaction. 1992 , 30, 2638-43	74

685	Detection and quantification of latently infected B lymphocytes in Epstein-Barr virus-seropositive, healthy individuals by polymerase chain reaction. 1992 , 30, 2826-9	98
684	Characterization and comparison of Australian human spotted fever group rickettsiae. 1992 , 30, 2896-902	27
683	The magnetic immuno polymerase chain reaction assay for direct detection of salmonellae in fecal samples. 1992 , 30, 3195-9	160
682	Rapid, sensitive detection of <i>Mycoplasma pneumoniae</i> in simulated clinical specimens by DNA amplification. 1992 , 30, 3280-3	31
681	Early detection of bovine leukemia virus by using an enzyme-linked assay for polymerase chain reaction-amplified proviral DNA in experimentally infected cattle. 1992 , 30, 675-9	27
680	Comparison of three nonradioisotopic polymerase chain reaction-based methods for detection of human immunodeficiency virus type 1. 1992 , 30, 845-53	65
679	Isolation and characterization of a species-specific DNA fragment for detection of <i>Candida albicans</i> by polymerase chain reaction. 1992 , 30, 894-900	67
678	Detection of <i>Legionella</i> spp. in bronchoalveolar lavage fluids by DNA amplification. 1992 , 30, 920-4	92
677	Development of DNA probes for early diagnosis and epidemiological study of cryptococcosis in AIDS patients. 1992 , 30, 925-30	35
676	Detection of hepatitis C virus sequences in sera with controversial serology by nested polymerase chain reaction. 1992 , 30, 931-4	34
675	A cloned DNA probe for <i>Cowdria ruminantium</i> hybridizes with eight heartwater strains and detects infected sheep. 1992 , 30, 981-6	50
674	Detection of <i>Borrelia burgdorferi</i> DNA in urine samples and cerebrospinal fluid samples from patients with early and late Lyme neuroborreliosis by polymerase chain reaction. 1992 , 30, 1646-53	99
673	Polymerase chain reaction-gene probe detection system specific for pathogenic strains of <i>Yersinia enterocolitica</i> . 1992 , 30, 1942-7	43
672	Molecular epidemiology of <i>Pseudomonas cepacia</i> determined by polymerase chain reaction ribotyping. 1992 , 30, 2084-7	159
671	Detection of <i>Babesia microti</i> by polymerase chain reaction. 1992 , 30, 2097-103	248
670	Development and clinical evaluation of a polymerase chain reaction test for detection of <i>Chlamydia trachomatis</i> . 1992 , 30, 2122-8	84
669	Polymerase chain reaction for detection of <i>Leptospira</i> spp. in clinical samples. 1992 , 30, 2219-24	260
668	Restriction fragment length polymorphism analysis of 16S ribosomal DNA of <i>Streptococcus</i> and <i>Enterococcus</i> species of bovine origin. 1992 , 30, 2235-40	49

667	Development of oligonucleotide primers and probes against structural and regulatory genes of human immunodeficiency virus type 1 (HIV-1) and their use for amplification of HIV-1 provirus by using polymerase chain reaction. 1992 , 30, 2279-83	21
666	Reverse transcription and polymerase chain reaction amplification of rRNA for detection of <i>Helicobacter</i> species. 1992 , 30, 2295-301	78
665	Detection of <i>Coxiella burnetii</i> by DNA amplification using polymerase chain reaction. 1992 , 30, 2462-6	125
664	Detection of Epstein-Barr virus and human papillomavirus in head and neck tumors. 1993 , 31, 53-6	69
663	Detection of <i>Theileria sergenti</i> infection in cattle by polymerase chain reaction amplification of parasite-specific DNA. 1993 , 31, 2565-9	58
662	Quantitation of enteroviral RNA by competitive polymerase chain reaction. 1993 , 31, 2634-40	31
661	Evaluation of polymerase chain reaction for diagnosis of pneumococcal pneumonia. 1993 , 31, 2661-6	96
660	Immunomagnetic purification to facilitate DNA diagnosis of <i>Plasmodium falciparum</i> . 1993 , 31, 2715-9	23
659	Diagnosis of <i>Chlamydia trachomatis</i> urethritis in men by polymerase chain reaction assay of first-catch urine. 1993 , 31, 3013-6	99
658	Evaluation of a technique for identification of Shiga-like toxin-producing <i>Escherichia coli</i> by using polymerase chain reaction and digoxigenin-labeled probes. 1993 , 31, 3153-6	25
657	Discrimination among thermophilic <i>Campylobacter</i> species by polymerase chain reaction amplification of 23S rRNA gene fragments. 1993 , 31, 3340-3	90
656	New method for detection of <i>Candida albicans</i> in human blood by polymerase chain reaction. 1993 , 31, 3344-7	68
655	Detection of <i>Pneumocystis carinii</i> DNA in sputum and bronchoalveolar lavage samples by polymerase chain reaction. 1993 , 31, 221-6	78
654	Presumptive diagnostic differentiation of hog cholera virus from bovine viral diarrhea and border disease viruses by using a cDNA nested-amplification approach. 1993 , 31, 565-8	60
653	Comparison of polymerase chain reaction with culture and enzyme immunoassay for diagnosis of pertussis. 1993 , 31, 642-5	62
652	Detection of human papillomavirus 16 and 18 DNA in epithelial lesions of the lower genital tract by in situ hybridization and polymerase chain reaction: cervical scrapes are not substitutes for biopsies. 1993 , 31, 924-30	11
651	Polymerase chain reaction for detection of measles virus in clinical samples. 1993 , 31, 1034-9	22
650	Detection of polymerase chain reaction-amplified human immunodeficiency virus type 1 proviral DNA with a digoxigenin-labeled RNA probe and an enzyme-linked immunoassay. 1993 , 31, 1040-7	14

649	Genotyping by multiplex polymerase chain reaction for detection of endemic hepatitis B virus transmission. 1993 , 31, 1095-102	54
648	Differentiation of Salmonella phase 1 flagellar antigen types by restriction of the amplified fliC gene. 1993 , 31, 1108-10	44
647	Evaluation of intraspecies genetic variation within the 16S rRNA gene of Mycoplasma hominis and detection by polymerase chain reaction. 1993 , 31, 1358-61	75
646	Enzyme-linked oligosorbent assay for detection of polymerase chain reaction-amplified human immunodeficiency virus type 1. 1993 , 31, 1444-9	22
645	Direct detection of Mycobacterium tuberculosis in respiratory specimens in a clinical laboratory by polymerase chain reaction. 1993 , 31, 1688-94	118
644	Direct detection of Mycobacterium tuberculosis in sputum by polymerase chain reaction and DNA hybridization. 1993 , 31, 1777-82	131
643	Diagnosis of Mycobacterium avium bacteremia by polymerase chain reaction. 1993 , 31, 1811-4	38
642	Human cytomegalovirus (HCMV) late-mRNA detection in peripheral blood of AIDS patients: diagnostic value for HCMV disease compared with those of viral culture and HCMV DNA detection. 1993 , 31, 1943-5	57
641	Nested polymerase chain reaction for detection of Mycobacterium tuberculosis in clinical samples. 1993 , 31, 2228-32	70
640	Direct PCR enables detection of Mycoplasma pneumoniae in patients with respiratory tract infections. 1994 , 32, 11-6	85
639	Enhancement of Borrelia burgdorferi PCR by uracil N-glycosylase. 1994 , 32, 135-8	10
638	Transmission of the human polyomavirus JC virus occurs both within the family and outside the family. 1994 , 32, 2359-63	77
637	PCR for capsular typing of Haemophilus influenzae. 1994 , 32, 2382-6	313
636	Nested PCR optimized for detection of Bordetella pertussis in clinical nasopharyngeal samples. 1994 , 32, 2544-8	34
635	Reverse transcriptase-PCR assay for detection of hog cholera virus. 1994 , 32, 2600-2	25
634	Detection of bacterial DNA in cerebrospinal fluid by an assay for simultaneous detection of Neisseria meningitidis, Haemophilus influenzae, and streptococci using a seminested PCR strategy. 1994 , 32, 2738-44	127
633	Sensitivity and specificity of PCR for detection of Mycobacterium tuberculosis: a blind comparison study among seven laboratories. 1994 , 32, 277-84	292
632	Nested PCR for specific detection and rapid identification of human picornaviruses. 1994 , 32, 285-91	84

631	Rapid and simple PCR assay for quantitation of human immunodeficiency virus type 1 RNA in plasma: application to acute retroviral infection. 1994 , 32, 292-300	424
630	An integrated target sequence and signal amplification assay, reverse transcriptase-PCR-enzyme-linked immunosorbent assay, to detect and characterize flaviviruses. 1994 , 32, 477-83	41
629	Detection of <i>Bacteroides fragilis</i> in clinical specimens by PCR. 1994 , 32, 679-83	30
628	Detection and nucleotide sequence analysis of the <i>speC</i> gene in Swedish clinical group A streptococcal isolates. 1994 , 32, 705-9	8
627	Sequence variation in <i>Shigella sonnei</i> (Sonnei), a pathogenic clone of <i>Escherichia coli</i> , over four continents and 41 years. 1994 , 32, 796-802	40
626	Detection of <i>Pseudomonas pseudomallei</i> by PCR and hybridization. 1994 , 32, 1326-32	28
625	Detection of BK virus DNA in nasopharyngeal aspirates from children with respiratory infections but not in saliva from immunodeficient and immunocompetent adult patients. 1994 , 32, 1390-4	72
624	Screening of respiratory tract specimens for the presence of <i>Mycobacterium tuberculosis</i> by using the Gen-Probe Amplified <i>Mycobacterium Tuberculosis</i> Direct Test. 1994 , 32, 1483-7	60
623	Detection of herpes simplex virus DNA from cerebrospinal fluid by PCR and a rapid, nonradioactive hybridization technique. 1994 , 32, 1881-6	30
622	Nosocomial infection by <i>Staphylococcus haemolyticus</i> and typing methods for epidemiological study. 1994 , 32, 2260-5	35
621	Development and evaluation of PCR assay for detection of low levels of <i>Cowdria ruminantium</i> infection in <i>Amblyomma</i> ticks not detected by DNA probe. 1995 , 33, 166-72	49
620	Low human immunodeficiency virus type 1 (HIV-1) DNA burden as a major cause for failure to detect HIV-1 DNA in clinical specimens by PCR. 1995 , 33, 205-8	16
619	Comparison of three methods for extraction of viral nucleic acids from blood cultures. 1995 , 33, 41-4	33
618	Clinical evaluation of a <i>Mycobacterium tuberculosis</i> PCR assay. 1995 , 33, 90-5	79
617	Detection of <i>Theileria annulata</i> in blood samples of carrier cattle by PCR. 1995 , 33, 2665-9	158
616	Molecular probes for diagnosis of fungal infections. 1995 , 33, 2913-9	288
615	Single-step PCR for detection of <i>Brucella</i> spp. from blood and milk of infected animals. 1995 , 33, 3087-90	116
614	Simultaneous detection and genotyping of three genomic groups of <i>Borrelia burgdorferi sensu lato</i> in Dutch <i>Ixodes ricinus</i> ticks by characterization of the amplified intergenic spacer region between 5S and 23S rRNA genes. 1995 , 33, 3091-5	234

613	Solid-phase C1q-directed bacterial capture followed by PCR for detection of <i>Chlamydia trachomatis</i> in clinical specimens. 1995 , 33, 283-6	3
612	Evaluation of ligase chain reaction for use with urine for identification of <i>Neisseria gonorrhoeae</i> in females attending a sexually transmitted disease clinic. 1995 , 33, 455-7	112
611	Identification of vaccine-related polioviruses by hybridization with specific RNA probes. 1995 , 33, 562-71	51
610	Molecular epidemiology of <i>Candida</i> isolates from AIDS patients showing different fluconazole resistance profiles. 1995 , 33, 769-71	29
609	Detection of <i>Mycoplasma hyopneumoniae</i> in nose swabs from pigs by in vitro amplification of the 16S rRNA gene. 1995 , 33, 893-7	76
608	Microtitration plate enzyme immunoassay to detect PCR-amplified DNA from <i>Candida</i> species in blood. 1995 , 33, 962-7	111
607	Food-initiated outbreak of methicillin-resistant <i>Staphylococcus aureus</i> analyzed by pheno- and genotyping. 1995 , 33, 1121-8	133
606	Early detection of human cytomegalovirus viremia in bone marrow transplant recipients by DNA amplification. 1995 , 33, 1263-6	30
605	Development of PCR-based hybridization protocol for identification of streptococcal species. 1995 , 33, 1296-301	34
604	Analysis of genes coding for small-subunit rRNA sequences in studying phylogenetics of dematiaceous fungal pathogens. 1995 , 33, 1322-6	79
603	Rapid diagnosis of Argentine hemorrhagic fever by reverse transcriptase PCR-based assay. 1995 , 33, 1327-32	30
602	Detection of the turkey pathogens <i>Mycoplasma meleagridis</i> and <i>M. iowae</i> by amplification of genes coding for rRNA. 1995 , 33, 1335-8	18
601	Parent-to-child transmission is relatively common in the spread of the human polyomavirus JC virus. 1995 , 33, 1448-51	100
600	High incidence of <i>Haemophilus influenzae</i> in nasopharyngeal secretions and middle ear effusions as detected by PCR. 1995 , 33, 1835-8	54
599	Investigation of sheep-associated malignant catarrhal fever virus infection in ruminants by PCR and competitive inhibition enzyme-linked immunosorbent assay. 1995 , 33, 2048-53	73
598	PCR strategy for identification and differentiation of small pox and other orthopoxviruses. 1995 , 33, 2069-76	179
597	Molecular genotyping of methicillin-resistant <i>Staphylococcus aureus</i> via fluorophore-enhanced repetitive-sequence PCR. 1995 , 33, 2141-4	111
596	Comparison of hepatitis B virus DNA extractions from serum by the QIAamp blood kit, GeneReleaser, and the phenol-chloroform method. 1996 , 34, 2731-3	67

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1 Extremophiles and Limits of Life in a Cosmic Perspective.

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