
AlleleID 7.8

AlleleID now contains the identification capabilities for all known pathogens. AlleleID now also features the identification of mammalian viruses, Mycoplasma, and antibiotic resistance genes from both Gram positive and Gram negative bacteria. AlleleID is also available for the design of diagnostic microarray for detection and identification of organisms from complex clinical samples (blood, stool, urine, cerebrospinal fluid) and foods. AlleleID performs fast analysis of homology and can be used for all known and emerging pathogens. It contains a built-in database of genetic information, which aids in rapid identification of new organisms. This microarray and qPCR design approach represents a significant improvement on conventional design methods because it can handle multiple criteria simultaneously, such as the design of primers and probes for a diagnostic assay, the prediction of target sizes and the detection of splice variants. And it can be configured to design both simple and complex assays. The output for an AlleleID analysis is a complete set of primer and probe sequences, along with all the basic information including size and melting temperature of the assays. AlleleID incorporates motif and motif pattern specific optimization tools. With the addition of a new term, motif pattern, AlleleID now has the capability to optimize the specificity of primers and probes while identifying new species or strains. AlleleID also has the capability to identify novel splice variants. AlleleID uses the most recent orthologous molecular sequences from NCBI to design primers and probes. AlleleID uses the most conserved regions and motifs of the genome in the targeted region. The program is designed for *in vitro* assays, such as real-time PCR, microarrays and band biosensors and for *in vivo* assays, such as blood or tissue culture. AlleleID is considered a user friendly, fast and efficient tool, enabling users to design species-specific molecular diagnostic assays.

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The design is done in three steps: alignment, motif and motif pattern selection and target detection/prediction. AlleleID aligns the genomes automatically using ClustalW algorithm. AlleleID is currently available for broad range of organisms from bacteria to viruses as well as for multi-copy genomes such as Mycoplasma. AlleleID now has an option to design assays for any organism and species by selecting organism and species specific genes. AlleleID is used for the design of molecular diagnostic, infection control, surveillance and biodefense assays. AlleleID delivers fast and accurate quality control of PCR products. One of the key problems in PCR based diagnostic assays is the inability to simultaneously identify all species from a sample. Multiplex PCR with more than one pair of primers generates products with lengths and types that are different enough to be easily discriminated. AlleleID automates the multiplexing process by taking into account the nature of PCR products. AlleleID identifies multiplexed products by using DNA hybridization, where DNA of interest is the bait, and DNA outside of the complex DNA mixture is the prey. Nucleotide sequences from pathogens are often characterized by highly dissimilar sequences at many variable sites. When designing primers and probes for a region that has much diversity, it is difficult to design oligos that are specific for each of the strains in the population. AlleleID can design primers for a region that has many variable sites, allowing the simultaneous identification of variants of each species from the same assay. 5ec8ef588b

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