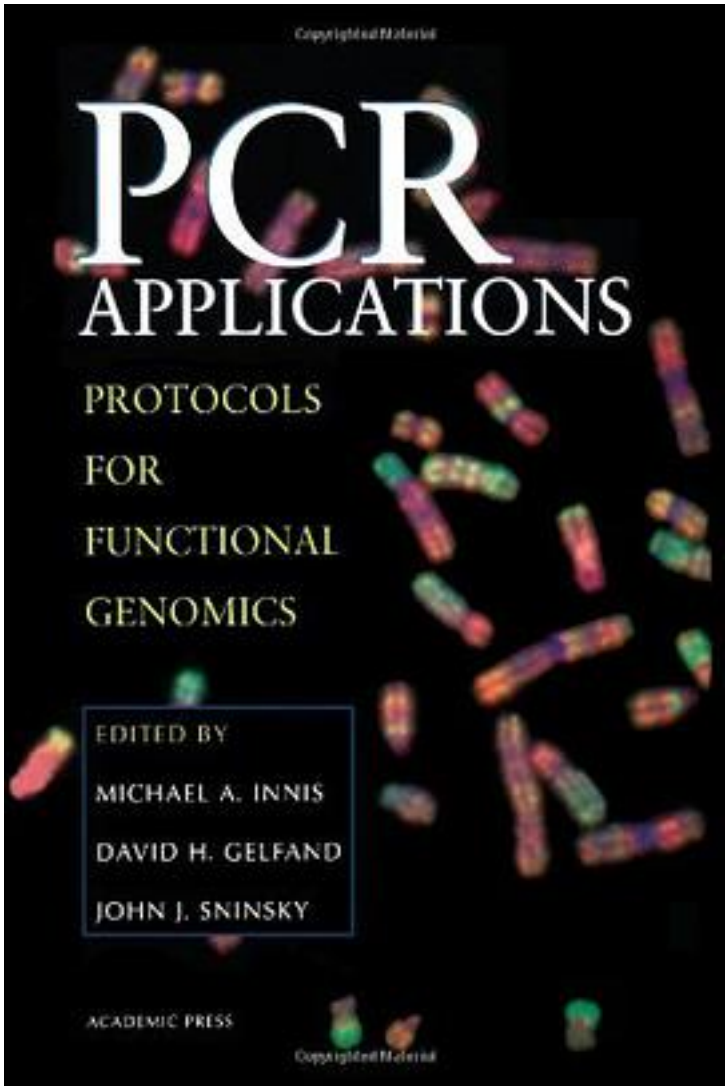
PCR Applications



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PCR is the most powerful technique currently used in molecular biology. It enables the scientist to quickly replicate DNA and RNA on the benchtop. From its discovery in the early 80's, PCR has blossomed into a method that enables everything from ready mutation of DNA/RNA to speedy analysis of tens of thousands of nucleotide sequences daily. "PCR Applications" examines the latest developments in this field. It is the third book in the series, building on the previous publications "PCR Protocols" and "PCR Strategies". The manual discusses techniques that focus on gene discovery, genomics, and DNA array technology, which are contributing factors to the now-occurring bioinformatics boom. It covers quantitative PCR techniques, including the use of standards and kinetic analysis includes statistical refinement of primer design parameters; and, illustrates techniques used in microscopic tissue samples, such as single cell PCR, whole cell PCR, laser capture microdissection, and in situ PCR. The entries provide information on: nomenclature, expression, sequence analysis, structure and function, electrophysiology, parmacology, and information retrieval.

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