

How Diagnostics Work: DNA-Based Diagnostics

44-MINUTE ONLINE COURSE | LEVEL 2

SUGGESTED PREREQUISITES: THE BIOLOGY OF BIOTECH, DIAGNOSTICS' ROLE IN MEDICINE TODAY, STATISTICAL FEATURES OF DIAGNOSTICS,

OVERVIEW

How Diagnostics Work: DNA-Based Diagnostics explains the molecular science and technology used in a common set of diagnostic tools, including the various types of PCR, SNP chips, next-generation sequencing and microRNA techniques. Gain entry to the fast-paced field of molecular diagnostics by taking this course.

Five Takeaways:

1. Summarize the uses of DNA probes in diagnostics.
2. Describe the use of polymerase chain reaction in diagnostic applications.
3. Explain how microarray technology is exploited in diagnostic applications.
4. Cite the importance of next-generation sequencing technologies in the diagnostics industry.
5. Discuss how microRNA technology could lead to advancements in diagnostic technology.

AGENDA

- **Polymerase Chain Reaction (PCR) Technology** summarizes the use of DNA probes and how PCR technology works as a diagnostic. PCR is the tool that enabled the biotech revolution.
- **Microarray Technology** explains SNP chip technology and discusses the use of SNP chips in diagnostic applications.
- **Next Generation Sequencing Technology** looks at various next-generation sequencing tools and discusses the omnipotent diagnostic applications these machines offer.
- **microDiagnostics Technology** summarizes how microRNA works and its application in diagnostics development.

WHAT PEOPLE ARE SAYING

"The Biotech Primer webinars on diagnostics are an outstanding educational resource for professionals in the med device industry." – Training Specialist