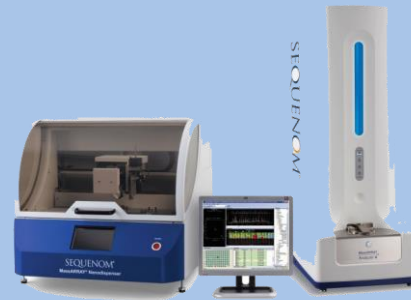




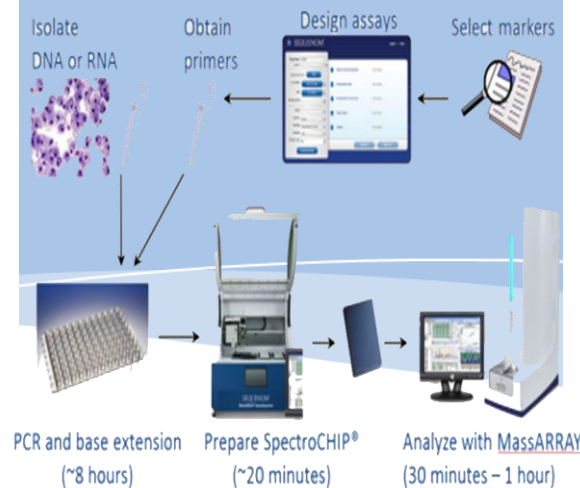
Real-time PCR system

- The system is designed for a variety of quantitative PCR (qPCR) and genotyping applications.
- The system provides the sensitivity to detect a single copy of starting genetic material.
- The System combines all of the qPCR features you want in a single high performance instrument, so that you can optimize your research productivity. With a simplified workflow, intuitive software, touch-screen interface, and one-button protocols for error minimization.



Mass ARRAY System

The Mass ARRAY system is a scalable platform offering a suite of applications for quantitative and qualitative genomic analysis. It provides unparalleled sensitivity and specificity using MALDI-TOF mass spectrometry.



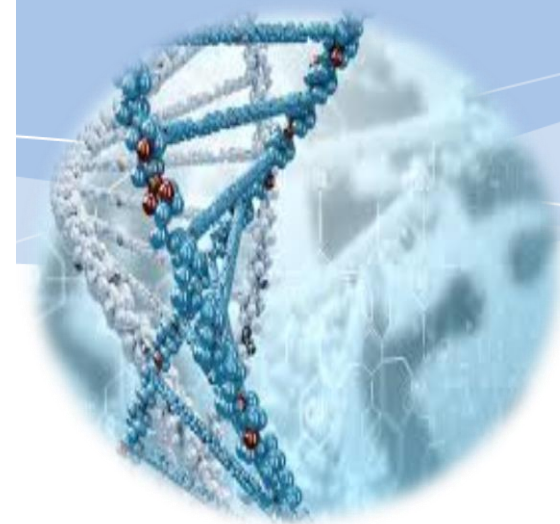
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Molecular Genetics Unit

Ground Floor
Lab No.12
Building 13

Central Laboratory And Prince Naif Health Research Center Medical Studies and Scientific Sections Molecular Genetics Unit



Molecular Genetics Department

Molecular genetics is the field of biology and genetics that studies the structure and function for DNA and RNA at a molecular level.

Our department represents a diverse group of researchers and Technician who are striving to understand fundamental issues in biology.

MOLECULAR GENETICS DEPARTMENT MISSION

- Research in the fields of molecular and developmental genetics.
- Give courses in molecular genetics.
- Service to the KSU University and other scientific communities.



Ion Proton



Ion PGM

Ion Torrent™ Next Generation sequencing technology

Ion semiconductor sequencing is a method of DNA sequencing based on the detection of hydrogen ions that released during the polymerization of DNA.

Ion Torrent™ Technology directly translates chemically encoded information (A, C, G, T) into digital information (0, 1) on a semiconductor chip.

The result is a sequencing technology that is simpler, faster, more cost effective and scalable than any other technology available.



Prepare
Sample



Prepare
Template



Run
Sequence



Analyze
Data

Ion PGM Workflow

