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*The Precision Nutrition Core offers a suite of services that enable investigators to integrate nutrigenomics and microbiome analysis into research projects to advance our understanding of how genetics and gut microbial communities influence individual variability related to nutritional exposures and adiposity.*

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The Precision Nutrition Core now offers the **QuantStudio 12K Flex Real-Time PCR System**—a highly flexible, comprehensive real-time PCR platform that can genotype or quantify gene expression in a customized and targeted approach.

The QuantStudio 12K Flex Real-Time PCR System can accommodate OpenArray plates, TaqMan® array cards, 384-well, 96-well, and FAST 96-well plates, allowing us to select the format that is right for your project for maximum flexibility and consistency with your research.



The Precision Nutrition Core also now offers a bomb calorimetry system that includes a **Parr 6200 bomb calorimeter** and a Parr 6510 water handling system.

**Visit our website for details on services and pricing:**

<https://sph.unc.edu/norc/precisionnutrition/>

The Precision Nutrition Core provides expertise and services in two areas:

1) Nutrigenomics and 2) Microbiome Analysis

**Customized, cutting-edge services include:**

- Whole genome, exome, and targeted gene sequencing
  - RNA-sequencing
- Microbiota characterization, including 16S rRNA gene sequencing and shotgun metagenomics
  - Targeted genotyping using PCR-based assays
    - Array-based gene expression profiling
- Bisulfide sequencing for methylation patterns in human and mouse models.