The Pyrosequencing Core for Genomic and Epigenomic Research at Cincinnati Children's Hospital Medical Center (CCHMC) provides state-of-the-art instrumentation and services to research investigators, graduate students and technicians of CCHMC and the University of Cincinnati College of Medicine (UCCOM).

The Pyrosequencing Core resides within the Division of Asthma Research on the 9th floor of the research building S and occupies approximately 100 square feet of dedicated laboratory space.

The facility is equipped with a Qiagen PyroMark Q96 system which can accurately measure locus-specific DNA methylation and genetic variation in a 96 well format, suitable for large-scale, high-throughput DNA methylation/validation analysis. This system is sensitive to less than 5% DNA methylation and is highly quantitative. The facility also has access to other equipment including a NanoDrop ND-1000 220-750nm spectrophotometer, PCR thermocyclers, tabletop centrifuges, pipetting devices and several E-C power sources to provide full service in sample preparation before pyrosequencing. In addition to Dr. Ji who is the PLGER Director, equipment is operated by an experienced full time employee who provides services for detection and quantification of genetic variation and DNA methylation by pyrosequencing.

Consultation about projects, assay design and data interpretation is provided upon request.

For additional information, tailoring the language to your particular grant application or for letters of support, please contact Hong Ji at hong.ji@cchmc.org.