DNA GENOTEK

ORAGENE-DNA

Second Barrier

Case study

Coriell Institute for Medical Research using Oragene®•DNA to collect up to 100,000 samples for the pioneering Coriell Personalized Medicine Collaborative®

About the study

The Coriell Institute for Medical Research is an independent, non-profit, biomedical research organization dedicated to understanding human genetic diseases and providing genetic resources from its renowned biobank to researchers worldwide.

The Coriell Personalized Medicine Collaborative^{*} (CPMC) is a long-term research study designed to explore the utility of using personal genome information in health management and clinical decision making. The CPMC also aims to utilize medical history and genetic data to understand why some people are susceptible to a particular disease or respond differently to a certain medication. Participants have the opportunity to learn about their risks for potentially actionable conditions, including heart disease, diabetes, and certain types of cancer, in addition to information about how they process specific medications.

This forward-looking, collaborative effort – involving volunteer study participants, physicians, scientists, ethicists, genetic counselors, pharmacists, and information technology experts – seeks to ultimately enroll 100,000 participants to maximize the power of the research study. Coriell is committed to ensuring that this population of CPMC study participants is demographically representative; historically, the presence of minority populations in medical research studies has been minimal.

Main challenges

In order to maximize the number of study participants, Coriell Institute required an easy, non-invasive and reliable method to collect DNA samples.

The saliva collection takes place at scheduled informed consent sessions at Coriell headquarters in Camden, NJ, as well as through CPMC hospital partners and at offsite locations in communities throughout the region. The process requires volunteers to attend an informed consent presentation, to sign a consent form and then provide a saliva sample. The samples are then stored at ambient temperature until they are analyzed at the Coriell Institute's Genome Center.





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Challenges for the CPMC study were maximizing donor compliance for successful collection, ensuring efficiency in sample collection and minimizing logistical challenges, such as storage of the samples. Coriell Institute requires large amounts of high quality DNA to use for genotyping at its Genome Center, and meeting these challenges is vital to the success of the CPMC study.

Why Oragene•DNA

The Coriell Institute selected Oragene*•DNA for the sample collection because it offered them a non-invasive, easy-to-use and reliable method to collect samples. The kit stabilizes DNA at ambient temperature until it can be analyzed, which eliminates any storage and logistical issues. In addition to collecting and providing high quality DNA samples, use of the Oragene•DNA self-collection kits also gives Coriell the ability to mail the kits to individuals, which will provide a future option of extending the service to people who cannot travel to the Institute or attend an offsite informed consent session.

Results

The Coriell Personalized Medicine Collaborative research study has more than 5,000 participants enrolled. Additional information about the study is available on the CPMC web portal at www.cpmc.coriell.org.

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