

Case Study

Coriell Institute for Medical Research to use 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 research organization that is dedicated to understanding human genetic diseases and providing the highest quality genetic resources to researchers worldwide.

The Coriell Personalized Medicine Collaborative (CPMC) is a multi-year research study that seeks to explore the utility of using genome information in clinical decision-making. The project also aims to understand why people often respond differently to treatments and to discover presently unknown genes that elevate a person's risk of cancer and other complex diseases. Participants will have the opportunity to learn about their risks for medically actionable conditions, including cancer, heart disease, diabetes, high blood pressure and high cholesterol.

The goal of the initiative is to better understand the coming impact of genome-informed medical practice and to guide its ethical, legal and responsible implementation. The study is a forward thinking, collaborative effort involving participant volunteers, physicians, scientists, ethicists and information technology experts. The project seeks to enroll 10,000 participants in the first two to three years with an ultimate goal of recruiting 100,000 individuals.

Main challenges

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

The saliva collection is being done at scheduled enrollment events at Coriell headquarters in Camden, NJ as well as off-site locations in communities throughout the region. The process requires volunteers to attend a presentation, consent to participate, and provide a saliva sample. The samples are then stored at room temperature until they are analyzed at the Coriell Institute's Genotyping and Affymetrix-based Microarray Center.

A challenge for the CPMC study was to maximize donor compliance, improve overall efficiency of sample collection and minimize logistical challenges, such as storage of the samples at room temperature. In addition to maximizing the number of samples collected, Coriell Institute requires large amounts of high-quality DNA to use for genotyping at its Genotyping and Microarray Center.



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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 room 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 off-site information and enrollment session.

Results

The Coriell Institute has scheduled enrollment events throughout 2008. Several thousand participants have already enrolled into the research study.

Additional information about the Coriell Personalized Medicine Collaborative (CPMC) and how to participate is available on the Coriell website at www.coriell.org.

