

Success Stories

Moving Innovative Technologies from DOE National Laboratories to the Marketplace

Viome

Los Alamos National Laboratory

Insight is the only cost-effective microbiome platform that offers metatranscriptomic sequencing.

Innovation

There are approximately 40 trillion microorganisms living in a human's gut. They help digest food, produce beneficial and harmful chemicals, control infections by pathogens, regulate immune system, and even control emotions.

Enters Viome, a bacteria-analysis company that examines the microorganisms in users' guts and counsels them on how to keep harmful bacteria at bay. Harnessing technology developed at the Los Alamos National Laboratory in New Mexico, Viome employs artificial intelligence to analyze the digestive tract and its effects on the body's immune and metabolic systems.

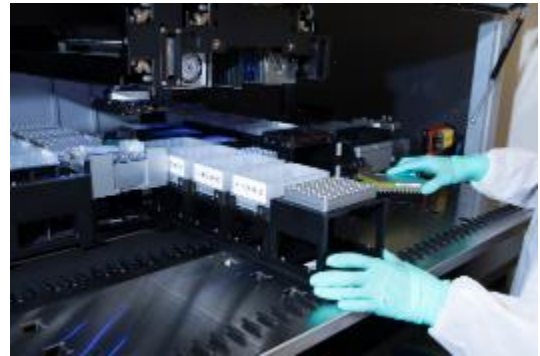
Outcomes

Technology Advancement

Viome was launched with a team of leading entrepreneurs, scientists, and physicians. Viome's Insight kit, the first direct-to-consumer microbiome analysis that sheds light on the active members of a gut microbiome community. Insight can analyze our gut microbiome and provides personalized recommendations for nutrition, supplements, and probiotics, with the goal of improving health and wellness. The at-home Gut intelligence® Test kit uses a stool sample: By analyzing RNA in the stool sample, Viome can get a species-by-species read on the microbial communities in a person's gut including bacteria, viruses, yeast, mold, fungi and parasites. Customers can review the results of the analysis via the Viome app. These results are also factored into a personal wellness profile, using the company's machine learning model (artificial intelligence) for massive and complex biological data.

Impact

Viome is the first company to offer wellness as a service, deploying the first direct-to-consumer microbiome analysis that can shed light on the active members of your gut microbiome. Without setting foot in a medical office, a consumer can easily collect the personal samples needed for analysis in the comfort of their own home.



The Viome automated laboratory environment is able to efficiently process 90 samples at a time without cross-contamination.

Timeline

- 2017:** Los Alamos National Laboratory entered into a cooperative research and development agreement (CRADA) and later an exclusive license with BlueDot. BlueDot created a wholly-owned subsidiary, Viome, the company that would commercialize SPIDR-WEB for personalized healthcare.
- 2018:** Viome and Los Alamos National Laboratory recognized as R&D 100 Award finalists.
- 2019:** Viome is expanding its reach into the world of personalized nutrition with the purchase of Habit Food Personalized, LLC (Habit) — a Campbell's Soup Company business that uses human biology to create highly customized nutrition plans.