Clinical OMICSs
Molecular Diagnostics in Personalized Medicine

A Resolution Revolution
Single-cell Sequencing Provides New Insights

Breaking NGS Ground

Dark Side of the Genome

Ten Startups to Watch
genomemedical

Genome Medical is a digital health company with a mission to integrate genomics into everyday health care. It is the first nationwide medical practice focused on genetics and genomics, and its clinical genetics experts provide virtual consultations over a tele-genomics platform (video or phone). The company helps patients, physicians, health systems, payers, and employers navigate the rapidly evolving field of genomics to improve health, diagnose and prevent disease, and lower the cost of care. Services include pre- and post-test counseling, test requisition, development of clinical action plans based on test results, and peer-to-peer consultations.

"We are seeing unparalleled advancements in genetics and genomics, and yet most people do not have access to the benefits of genomic medicine. Genome Medical was created to change that, as the first independent, nationwide medical practice focused on genetic and genomics. The fast, direct access we provide to genetic experts (genetic counselors and medical geneticists) through virtual consultations helps patients and clinicians make informed genetic health decisions about testing and how to best integrate test results into healthcare planning," said Genome Medical CEO Lisa Alderson.

Interpreta

Interpreta is an analytics company that intelligently synchronizes healthcare. A real-time clinical and genomic interpreter and care-navigation platform that leverage AI, Interpreta helps physicians and insurers to deliver patient prioritization and actionable insights prospectively to enable quality care, population genomics, and precision medicine. "Interpreta continuously aggregates and interprets EMR, insurer, pharmacy, laboratory, EMR, and genome sequence data against always-current knowledge bases in real time to optimize patient treatment," said Ahmed Ghouri, M.D., CEO. Interpreta’s analytics engine updates, interprets, and synchronizes clinical and genomic data, creating a personalized roadmap that is syndicated to multiple application workflows using a real-time API. "Like a GPS system for patient care, it continuously gathers and calculates multiple sources of data to deliver precision care guidance and real-time care correction as soon as new data arrives, without interpretation latency. This enables ACOs, health plans, and care managers, and patients to quickly navigate next steps in priority order," Ghouri added.

Roswell

Roswell is taking a bold step to develop a transformative technology platform based on Molecular Electronics—ENDSeq Electronic Nano Detection Sequencing—to realize the $100, 1-hour genome. Low cost desktop systems, with simple single molecule workflows, will drive ubiquitous deployment of clinical-grade sequencing for equitable access to precision medicine for all. Roswell’s ability to deliver ultra-long reads for phased genomes, with high accuracy, and direct reading of epigenetic status could transform the practice of medicine. "Roswell’s ENDSenabled technology that will defy the current status of reading DNA, to unlock the power of the genome to usher in the era of Precision Medicine. Roswell’s technology will shift the paradigm from sequencing individuals to sequencing single cells for maximum power to unlock new insights in biology for the betterment of mankind," said Paul Mola, president and CEO.