Computational Medicine Center

Overview
The Computational Medicine Center is a bustling and cutting-edge center of predictive medicine and disease management. This dynamic collaboration between Cincinnati Children’s Hospital Medical Center and the University of Cincinnati Academic Health Center is taking medicine to a new level in Ohio and beyond.

With funding and support from Ohio’s Third Frontier Project and the National Institutes of Health (NIH), the center is continuing to build its team of talented research physicians and experts in bioinformatics, genomics, genetics, epidemiology, computer science, math and statistics. These professionals are working together to improve the health of every generation by making disease more preventable, illness more predictive and treatment more personalized.

Already a leader in the collection, modeling, analysis and management of human and biological data, the center also places the highest priority on today’s sensitive regulatory requirements.

Location
The center is housed on the 10th Floor of Location S, a 12-story research building that opened in 2007 on the campus of Cincinnati Children’s Hospital Medical Center. It is also scheduled to occupy additional space in the new Center for Academic and Research Excellence (CARE)/Crawley Building directly across Albert Sabin Way on the campus of the University of Cincinnati Academic Health Center.

Services
The Computational Medicine Center is a thriving center of clinical-genomic studies, advanced data collection and computational capabilities, all housed in a highly secure and tightly regulated environment. Highlights and offerings include:

Clinical-Genomic Study Support
- Experts in developing and analyzing clinical-genomic data
- Experts in developing advanced algorithms for analyzing challenging genomic and proteomic problems
- Experts in epidemiology and biostatistics who understand the demographics and patient characteristics of clinical-genomic research
- Experts in integrating clinical and genomic data

Data Management and Supercomputer Technology
- Organizing data for patient populations, such as families, cities, regions and nations
- Handling and management of clinical, genetic and genomic data
- In excess of 100TB of storage
- Maximum-capability supercomputers to meet advanced computational requirements

http://healthnews.uc.edu/news/?/1996/
Security and Regulatory Compliance

- Handling and professional management of biological specimens and sensitive patient data
- Securely storing data in a HIPAA-compliant facility
- Developing a Tier 4 highly secure data center