



VIVO at Weill Cornell

For many researchers the geographical and organizational confines of a department, college, or even a single university bear very little relevance to the scope of their research or the pool of colleagues they may seek for collaboration. Researchers are often left to find their own paths to discover current activities and active researchers in their field and beyond, usually by a combination of personal connection, disciplinary knowledge, and fortuitous discovery through search engines, leaving those who have yet to develop their own network of personal contacts at a significant disadvantage.

Weill Cornell's participation in this NIH U24 grant provides the opportunity to share our internal expertise in faculty profile management as well as expand our internal effort through a national collaboration using cutting edge technology beyond an isolated effort.

About Weill Cornell

Weill Cornell Medical College was founded in 1898. Since its inception, the Medical College has followed an educational philosophy that emphasizes the importance of combining a strong basic foundation in the medical sciences with extensive clinical training in patient care. In 1927, the Medical College affiliated with what is now NewYork-Presbyterian Hospital, and in 1932, the two institutions opened their joint campus on the Upper East Side of Manhattan. The mission of the Medical College is to provide the finest education possible for medical students and students pursuing advanced degrees in the biomedical sciences, to conduct research at the cutting edge of knowledge, to improve the health care of the nation and the world, and to provide the highest quality of clinical care to the community.

Curtis Cole MD

Chief Information Officer
- *Principal Investigator*

Dan Dickinson

Software Development Manager
- *Technical Lead*

John Ruffing

Associate Director Advanced
Technology Integration Services
- *Site Integration Manager*

Paul Albert

Digital Services Librarian
- *Information Architect*

Kenneth Lee

Project Manager
- *Project Manager*

Eliza Chan

Software Developer
- *Programmer*

Chris Huang

Senior Developer, Data Dictionary Team
- *Programmer*

Victor Brodsky MD

Assistant Medical Director of Informatics
- *Physician Informaticist*

Grace Migliorisi PhD

Web Services Manager
- *Web Interface Content Management Consultant*

Mark Bronnimann

Senior Unix Architect
- *Database and System Administrator*

Jason Specland

System Developer, POIS Data Dictionary
- *Programmer*

ACCOMPLISHMENTS IN YEAR 1

- Locally installed and configured VIVO version 1.0 at Weill Cornell Medical College
- Defined and mapped preliminary local ontology
- Identified authoritative data sources from internal systems
- Determined data to be entered manually or from an automated feed
- Determined what data should be private
- Established a showcase department within our VIVO instance
- Devised a method for profiling physicians based on the patient encounter notes stored in the electronic medical record
- Extracted diagnosis data and derived preliminary physician profiles
- Refined SNOMED based expertise search tools
- Devised ICD-based expertise identification algorithm

GOALS FOR YEAR 2

- Continue upgrading to the most recent versions of VIVO as they become available
- Implement multi-institutional networking
- Begin training & outreach efforts to the user community at Weill Cornell Medical College & CTSC Partners (Memorial Sloan Kettering Cancer Center, Hunter, Hospital for Special Surgery)
- Expand data sources for data ingest
- Establish and maintain plan for keeping data current and accurate
- Integrate VIVO into the WCMC culture
- Refine expertise profiling methodologies