



LEADING HEALTH SCIENCE INNOVATION  
THAT FOCUSES ON IMPROVING  
THE HEALTH OF UNDERSERVED COMMUNITIES

## RTRN Profiles RNS

RTRN Profiles RNS (Research Networking Software) is a tool to speed the process of finding researchers with specific areas of expertise for collaboration and professional networking. RTRN Profiles imports and analyzes “white pages” information, publications, and other data sources to create and maintain a complete searchable library of web-based electronic CV’s. RTRN Profiles creates a “career snapshot” that combines directory information, user-contributed content, and publications that are extracted from PubMed by the RTRN Profiles. Built-in network analysis and data visualization tools allow administrators to generate research portfolios of their institution, discover connections between parts of their organization, and understand what factors influence collaboration.

RTRN Profiles self-populates publication history, research interests and professional relationships for each investigator in an organization. Integrated visualization and search tools make RTRN Profiles easy to use, and its customizable look-and-feel allow RTRN Profiles to be integrated into an existing website or set up as a stand-alone site. RTRN Profiles provides much more useful information than typical directory listings or ordinary literature searches by analyzing publication data to define a researcher’s professional interests with a set of prioritized keywords. Users can add any missing publications by doing a PubMed search from within RTRN Profiles or manually entering publications that do not exist in PubMed. The Disambiguation Engine learns from these changes to improve the results of the next literature analysis and update.

### **Federated Search**

A significant new feature in RTRN Profiles is Federated Search. By default, RTRN Profiles uses the VIVO ontology. VIVO is an NIH funded project that created a new standard for sharing information about researchers. Instances of RTRN Profiles at different institutions can “talk” to each other through federated queries, enabling networks to extend beyond local collaborations while protecting institutional data.

Currently, users are able to search for potential research collaborators at participating institutions that have other professional networking tools such as VIVO, CAP, Loki, or Digital Vita. These capabilities are possible because RTRN Profiles uses standards based web services APIs that can communicate with other computer systems through XML, RIS Citation Data Format, RDF and Linked Open Data (LOD).

### **eagle-i Integration**

The VIVO group has aligned their ontology with eagle-i. Dr. Griffin Weber, the lead on the Profiles project, states that Profiles should also be compatible with eagle-i.