

APIs

- [Data Distribution API](#)
- [Direct2Experts API](#)
- [Linked Open Data - requests and responses](#)
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The VIVO APIs are HTTP end-points that can be used to read or write data, or to manage VIVO's operation. Other than [Triple Pattern Fragments](#), they have no user interface, and are intended to be called by external applications that are cooperating with VIVO.

The end-points include:

Public Services	• available without restriction • provide filtered results, allowing restrictions on data
Linked Open Data	Information about an individual, its types, its data values, incoming and outgoing links.
ListRDF	Lists of individuals that belong to a particular class in the ontology. For example, a list of all People, or all Organizations.
Triple Pattern Fragments	Lists of triples that match triple patterns. Can be used to retrieve all triples.
Data Distribution API	Create custom end points to provide data in multiple formats
Direct2Experts API	Provides data in response to a request from Direct2Experts.

Access Controlled Services	• require account credentials on each request • credentials are for an internal VIVO with sufficient authorization • results are not filtered, and may return data that should be kept private
SPARQL Query API	Submit a SPARQL query to get information from VIVO. Supports SELECT, ASK, CONSTRUCT, and DESCRIBE query types.
SPARQL Update API	Submit a SPARQL query to INSERT new triples or DELETE existing triples. Also, LOAD triples from a web-accessible file.
Search Indexing API	Submit a list of URIs that may have stale data in the search index. The search data for each of these URIs will be rebuilt.