Annalist Data Notebook: Towards Making Research Objects

Status: **Work in Progress**

Completed:

- Configurable interface for editing data records
- Create new record types, view and list formats as data is being prepared
- Grid-based responsive layout engine
- File based, JSON-LD data storage model
- Authentication using OAuth2/OpenID Connect, tested with Google
- per-collection access permissions with with site-wide defaults
- Simple setup to quickly create a working installation

For first product release:

- Usability improvements
- Additional field renderers to support more basic data types (e.g. images).
- Grid view (e.g. for photo +annotation galleries).
- JSON-LD contexts.
- Content negotiation for alternative data formats
- Support for uploading, referencing and annotating arbitrary resources
- Full linked data support
- Robust deployment options for public access installations (e.g. Apache +WSGI, Docker, etc.)

Future releases:

- Serve and access data through a standard HTTP server (currently uses direct file access).
- Spreadsheet data bridge (presenting spreadsheet content as linked data within a collection)
- Indexed search (using Elastic Search or Jena/ Fuseki, to be decided)
- Read-only data views
- Provenance recording
- git/dat integration

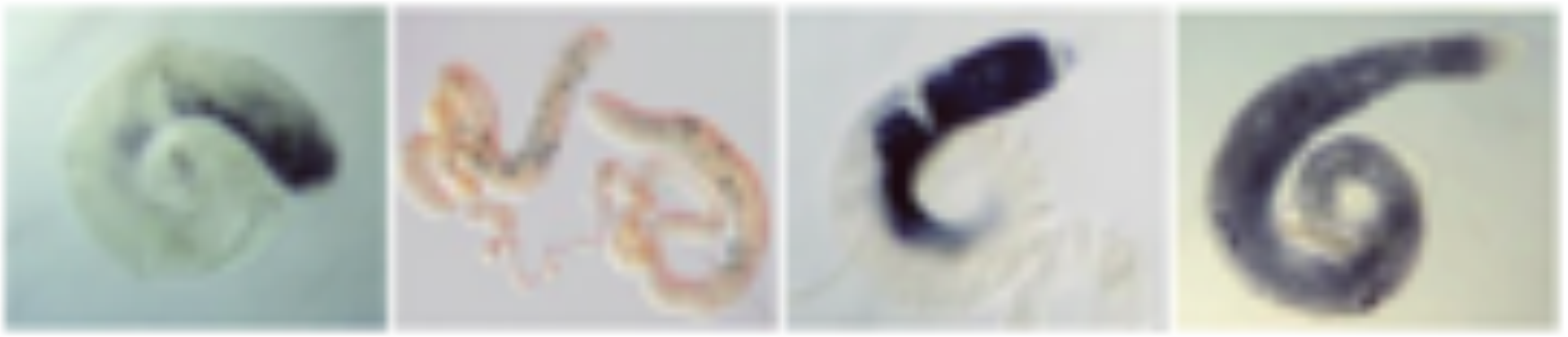
Evaluation: **Applications**

Current and planned test applications:

- Canal cruising log
- Bibliography record management
- Creation and submission of Research Objects
- Assembly of digital music objects

Other target application ideas:

- Annotated _in situ_ gene images (Fly-TED)
- CLAROS notebook
- Network configuration/inventory
- Personal information manager
- Photo album assembly



Future: **Towards Sustainability**

My longer term aim is to create a community-supported open source project, through engagement with a range of users' applications, and refining system capabilities to ensure it can address real user needs.