

From: Kincaid, Heather L (US 398G-Affiliate) heather.kincaid@jpl.nasa.gov

Subject: Re: Description on EDRN data page

Date: January 24, 2022 at 4:24 PM

To: Kelly, Sean C (US 398A-Affiliate) sean.c.kelly@jpl.nasa.gov, Crichton, Daniel J (US 3902) daniel.j.crichton@jpl.nasa.gov



Hi Guys,

Sean, thanks for starting this. What about the following? I think they are too long, so please edit. The underlined items would be hyperlinks.

Data – A data sharing resource, [Laboratory Archive and Catalog System, \(LabCAS\)](#) for the EDRN for the capture and organization of scientific data. This infrastructure allows investigators to securely capture, process, and dissemination data to other investigators. It is a goal of JPL, in collaboration with NCI, to integrate multi-omics data for biomarker research to support sharing and analysis of biomarker data seamlessly across NCI, forming the Biomarkers Knowledge Environment. The infrastructure provides the ability to run arbitrarily complex data processing workflows from genomics to imaging, as well as other microservices to validate data during ingestion and link clinical and scientific datasets together.

Biomarkers – The Biomarker Database (BMDB), a biomarker-centric database that contains the definition of each cancer biomarker, integrates experimental results and scientific conclusions from across the EDRN information landscape, enriches the EDRN data with public resources, and allows single-point access to all information through the EDRN Public Portal. The BMDB is a high quality, manually annotated and non-redundant cancer biomarker database containing biomarkers and biomarker panels from many different organ sites. The goal of the EDRN Informatics Center is to capture and annotate all biomarkers researched within the EDRN consortium. The biomarkers are linked in the portal to the [protocols](#), [data](#) and [publications](#) providing a complete picture of the scientific research.

Protocols - EDRN's research is summarized in study and project protocols, which consist of the objectives, methodology, study design, and other experimental details that make discovery and refinement of biomarkers possible. The protocols are also linked in the portal to the [biomarkers](#), [data](#), [sites and investigators](#) providing a complete picture of the scientific research.

Publications – EDRN researcher publications captured since the inception of EDRN and linked to [biomarkers](#), [investigator](#) and PubMed.

Thanks,
Heather

From: Sean Kelly <sean.kelly@jpl.nasa.gov>

Date: Wednesday, January 19, 2022 at 6:54 AM

To: Dan Crichton <daniel.j.crichton@jpl.nasa.gov>

Cc: "Kincaid, Heather L (US 398G-Affiliate)" <heather.kincaid@jpl.nasa.gov>

Subject: Re: Description on EDRN data page

Hi Dan

... Data ...

Agreed. Those Dublin Core "description" fields were often overlooked and had just perfunctory text in them that I contrived years ago.

Data ... maybe "Scientific data from instrumentation and experiments conducted by the Early Detection Research Network; this data is collected into the Laboratory Archive and Catalog System, LabCAS."

Biomarkers ... "The core tool of early detection, biomarkers are the molecular, chemical, genetic, and other indicators for cancer, enabling earlier detection and earlier treatment."

Protocols ... "EDRN's research is conducted in protocols, which consist of the procedures, scientific and mathematical analyses, care and concern for human and animal subjects, and other experimental details that make discovery and refinement of biomarkers possible."

Publications ... you get the idea. I'll let Heather tackle this one 😊

What do you think? These are more detailed. Are they more exciting? 🤔

Take care,
-SK

[Crichton, Daniel J \(US 3902\)](#)

January 18, 2022 at 7:47 PM

Hi Sean and Heather

I suggest we expand this description on the data page...

"Data collected by EDRN stored in LabCAS."

Heather, can you take a pass? Let's assume people may not even know what LabCAS is and also that we might include links to data outside LabCAS.

While we are at it, I suggest we look at

Biomarkers

Indicators for cancer.

Protocols

Studies supported by EDRN