

Release Notes - ASAP CRN Cloud - Version 1.0.0-beta

Release Date: March 6, 2024

Overview:

We're excited to announce the availability of the Version 1.0.0-beta data release on the CRN Cloud! In this release, we have expanded data collections with contributions from Team Jakobsson. Furthermore, we've updated the Postmortem-derived Brain Sequencing Collection by integrating this team's data into the harmonized subset. This curated subset now contains data from a total of 3 CRN Teams and is organized across common data elements.

Users with an active account and valid Data Use Agreement (DUA) will have access to the latest data on the platform. Use this link to access: <https://cloud.parkinsonsroadmap.org/>.

The current version of CRN Cloud is in its **beta release**. Expect the rollout of new features in the coming months, designed to improve analysis capabilities and integration with Verily Workbench.

Version 1.0.0-beta - Release Updates:

Additions:

- New data collection added: Team Jakobsson.
- New features added:
 - Ability to save filtered data from Explorer as a signed URL to access in Verily Workbench.
 - Ability to view Python queries in Explorer to search programmatically from a Jupyter Notebook.
- New documentation added:
 - [Data Submission and Release document](#)
 - [Frequently Asked Questions](#)
 - [README](#)

Changes:

- Updates to the Postmortem-derived Brain Sequencing Collection:
 - Integrated data from Team Jakobsson into this harmonized collection.
 - A new DOI version has been generated for this release. It is <https://doi.org/10.5281/zenodo.10372107>. Reference the harmonized collection in your publication by citing the DOI. The DOI is also available on the 'Overview' tab in the collection.
- Data structure updates: [Click here for updated data dictionary](#).
 - Addition of ASAP assigned unique IDs in the STUDY, PROTOCOL, SUBJECT, CLINPATH, and SAMPLE tables.
 - Addition of the DATA table, providing information on available file names, descriptions, types, and additional details.
 - Addition of the alternate_dataset_id variable in the STUDY table to accommodate alias identifiers for datasets shared on alternative platforms.

Available Data:

Data available in this release:

1. **Postmortem-derived Brain Sequencing Collection:** a harmonized collection of sequencing data contributed by three ASAP CRN teams (Teams Hafler, Jakobsson, Lee). [Click here for more details.](#)
2. **(Team Hafler) Single-cell transcriptomic and proteomic analysis of Parkinson's disease brains:** [Click here for more details.](#)
3. **(Team Jakobsson) Single nuclei sequencing of brain regions from healthy and Parkinson's Disease individuals:** [Click here for more details.](#)
4. **(Team Lee) Investigating Senescence in Human PD Brain snRNA-seq:** [Click here for more details.](#)

The current data collections represent the minimum viable product and are being expanded as additional data is uploaded into the CRN Cloud. When complete, the collection will provide data generated from 1,800+ samples using proteomics, transcriptomics, and sequencing (single-nucleus RNAseq, single-cell RNAseq, bulk RNA-seq, ATAC-seq, long read WGS, and single-nucleus multiome sequencing (paired snRNAseq, snATACseq)) techniques.

Feedback and Support:

If you have any feedback or questions regarding this release or the CRN Cloud platform in general, please feel free to reach out to us at cloud@parkinsonsroadmap.org. We are more than happy to address your inquiries and can arrange a call if needed!