Release Notes - ASAP CRN Cloud - Version 4.0.0

Release Date: December 22, 2025

Overview:

The ASAP CRN Cloud is pleased to announce the 4.0.0 release of data which expands our datasets and harmonized collections of curated Human Postmortem-derived Brain Sequencing (PMDBS) and non-human (Mouse) Datasets. Our recent release expands upon the PMDBS snRNAseq, PMDBS Bulk RNAseq, and PMDBS Spatial RNAseq harmonized collections, adds one new harmonized collection: Mouse scRNAseq, and adds several individual datasets.

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/.

Version 4.0.0 - Release Updates:

Additions:

- Collections:
  - Human post-mortem derived brain - single-nucleus RNA-seq and polyA RNA-seq collection, v3.1.0 - DOI: 10.5281/zenodo.17860778
    - (Team Sulzer) Single-nucleus RNAseq of the post-mortem cingulate cortex and substantia nigra from control and Parkinson's disease brains, DOI:10.5281/zenodo.17612853
  - Human post-mortem derived brain - bulk RNA-seq collection, v1.2.0 - DOI: 10.5281/zenodo.17860841
    - (Team Jakobsson) Bulk RNA-seq of dopaminergic neurons in vitro cultures, DOI:10.5281/zenodo.16929448
  - Mouse single-cell RNA-seq collection, v1.0.0 - DOI: 10.5281/zenodo.17860975
    - (Team Cragg) Single-nucleus RNA-seq of the striatum of two mouse Parkinson's disease models, DOI: 10.5281/zenodo.15400039
    - (Team Biederer) Single-cell RNA-seq of motor cortex in a mouse model of alpha-synuclein pathology, DOI: 10.5281/zenodo.15485103
  - Human Post-mortem Derived Brain Sequencing - Spatial RNAseq Collection, v1.1.0 - DOI: 10.5281/zenodo.17860901
    - (Team Scherzer) PD5D Visium10x spatial transcriptomics, DOI: 10.5281/zenodo.17242087

- Individual Datasets:
  - Post-mortem Derived Brain Sequencing Data
    - (Team Scherzer) PD5D MEGA Chip Genotype, DOI: 10.5281/zenodo.17242295
  - Mouse Data
    - (Team Schlossmacher) Single-nucleus RNA-seq of olfactory epithelium with AAV serotypes for transduction of olfactory sensory neurons in mouse, DOI: 10.5281/zenodo.17358327
    - (Team Alessi) Single-nucleus transcriptomic analysis of the dorsal striatum from 6-month-old G2019S LRRK2 mutant mice, DOI: 10.5281/zenodo.17212215
  - Invitro Data
    - (Team Jakobsson) Bulk RNA-seq of microglia in vitro cultures, DOI: 10.5281/zenodo.17149290
    - (Team Jakobsson) Bulk RNA-seq of dopaminergic neurons in vitro cultures, DOI: 10.5281/zenodo.17149266
  - Proteomics
    - (Team Alessi) Golgi-IP, a tool for multimodal analysis of Golgi molecular content, DOI: 10.5281/zenodo.17355407

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!