



In February 2022, Rancho launched the Single Cell Data Science (SCDS) Consortium, a 3-year pre-competitive initiative. The goal is to deliver harmonized and analysis-ready single cell experiments, from publicly available sources, more quickly and cost effectively than a single company could support on its own.

Due to their enormous potential for advancing drug discovery, there continues to be an exponential growth in the use of single cell sequencing methods. Leveraging this vast public data lake allows pharmaceutical companies to dramatically expand their universe of single cell experiments. However, the tasks of finding, downloading, and curating single cell data are highly laborious and time consuming to derive harmonized analysis-ready datasets.

This is a true cost sharing approach, with vastly superior ROI to what one company could achieve on its own. ROI continues to grow as more Members join. With 7 Members the cost per dataset is now around \$1,000! Members get to keep all deliverables in perpetuity, with no further fees due.

Consortium accomplishments in Years 1 and 2 (ending Feb. 2024)

YEAR	STUDIES	DATASETS	DONORS	SAMPLES	CELLS
YEAR 1	107	115	1,569	6,885	17,796,888
YEAR 2*	236	258	3,510	13,928	27,921,418
TOTAL	343	373	5,079	20,813	45,718,306

*estimated

Comprehensive Cell Type Annotation

- All datasets include cell type annotation from multiple sources. Author provided annotations (where available), CellTypist ML annotation, scArches/scVI reference-based annotation.
- These annotations are available as original terms, as well as aligned to CellOntology terminology and identifiers.
- Together, these annotations provide both context-specific categorization and harmonized labels across all datasets.

Cell Type Atlases Delivered in Year 2:

- Autoimmune disease atlas
- Healthy tissue atlas
- Nervous system cell atlas
- Healthy brain cell atlas

BENEFITS OF MEMBERSHIP

New members will receive **all Year 1 & Year 2 deliverables upon joining**. Depending on when they join, they will also be able to participate in prioritization of Batches 9-12 content in Year 3.

Members get to enjoy the ability to interact regularly with like-minded peers in drug discovery at other companies, in a pre-competitive manner, to share common challenges faced in working with single cell datasets and how SCDS can help to advance the field together and deliver value to each Member.



CONSORTIUM MEMBERS



MEMBERSHIP IN THE SINGLE CELL DATA SCIENCE CONSORTIUM

New members are welcome to join the consortium, please email Services@RanchoBioSciences.com if you are interested in becoming a member.



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