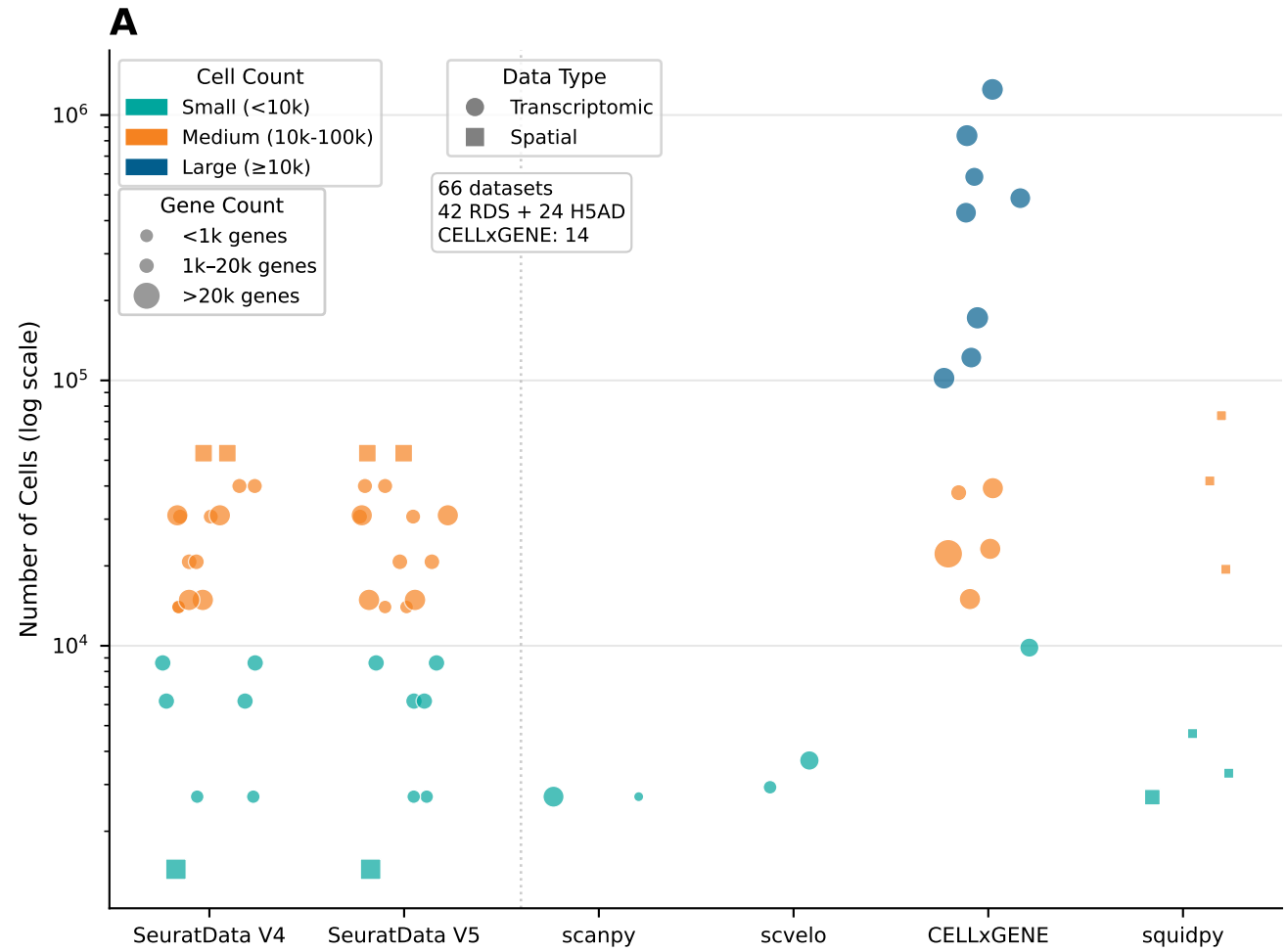


# Dataset Landscape: 65 Benchmark Datasets



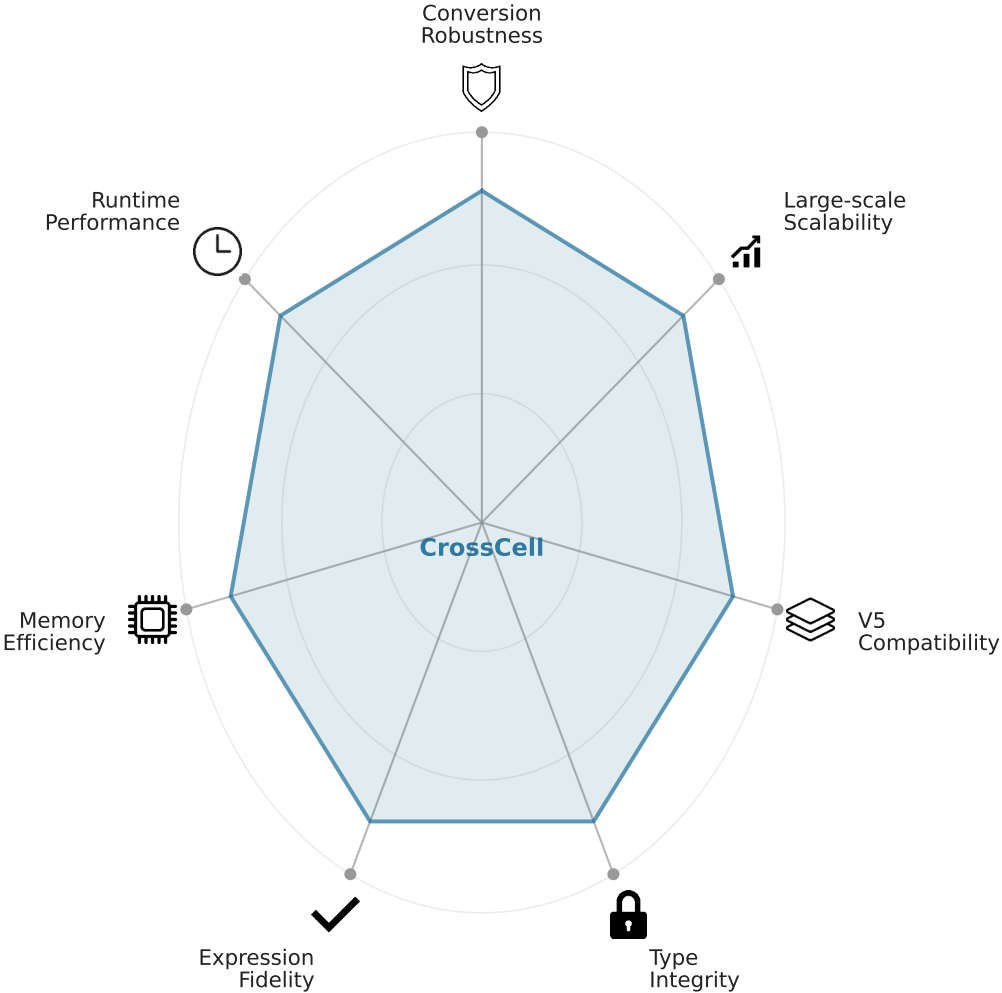
**B**

## Tool Comparison: Technical Approaches

|                                                                           |   |                         |
|---------------------------------------------------------------------------|---|-------------------------|
| <b>Zellkonverter</b><br>R→Python bridge (basilisk) — needs R + Python     | ↔ | Runtime Deps: R, Python |
| <b>anndataR</b><br>Native R (hdf5r) — needs R only                        | ← | Runtime Deps: R         |
| <b>convert2anndata</b><br>R→Python bridge (reticulate) — needs R + Python | → | Runtime Deps: R, Python |
| <b>easySCF</b><br>Custom HDF5 intermediate — needs R + Python             | ↔ | Runtime Deps: R, Python |
| <b>CrossCell</b><br>Native Rust (no runtime) — standalone binary          | ↔ | Runtime Deps: None      |

**C**

## Seven-Dimension Evaluation Framework



### Reproducibility

- Version-locked environment
- 3× replicate runs per test
- All code, data, notebooks public
- 65 datasets × 5 tools × 7 dim = 2,275 test points