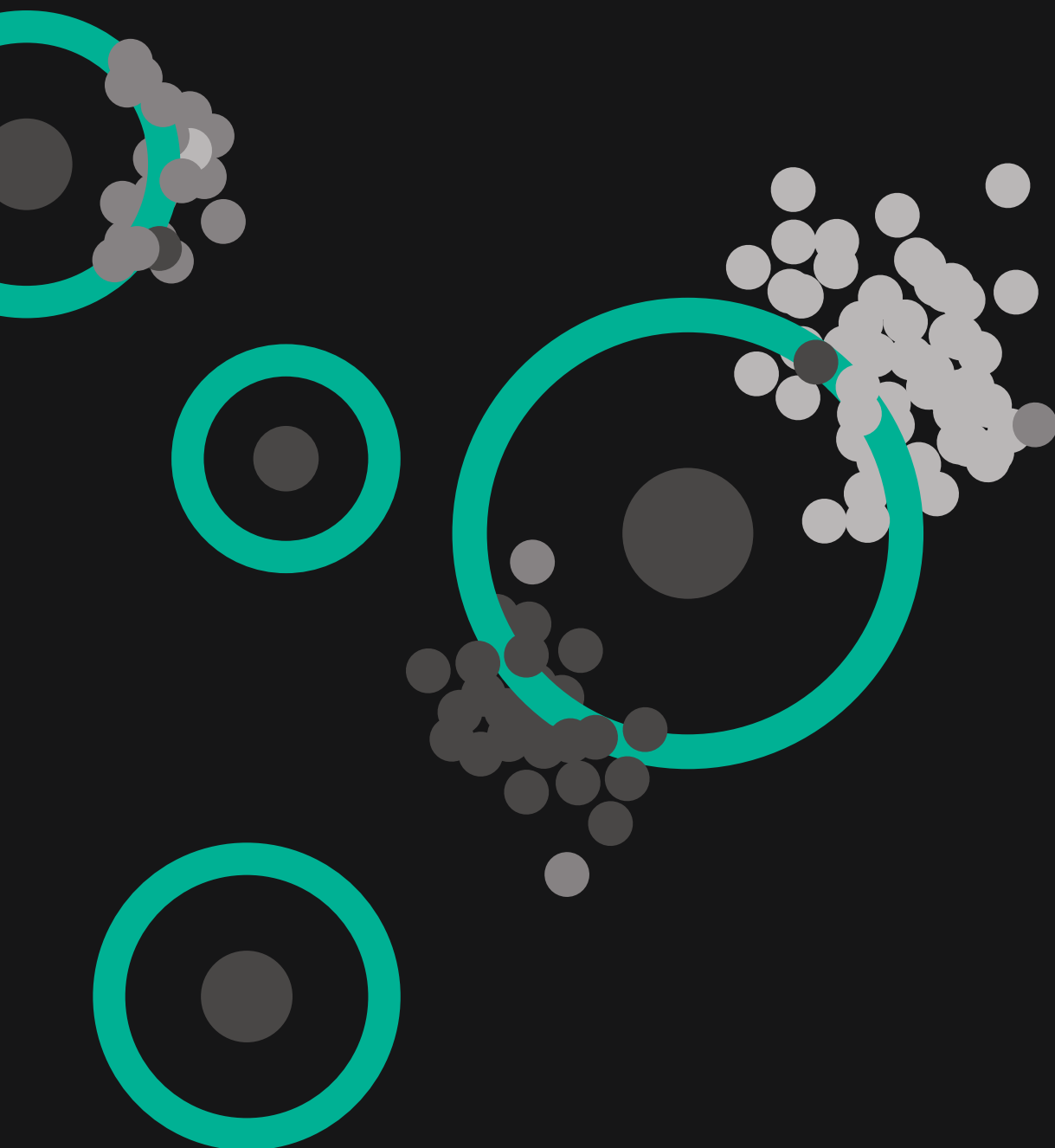


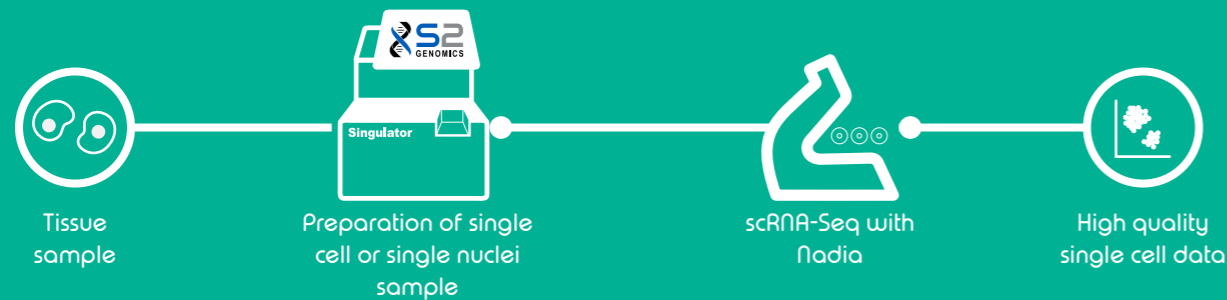
Integrated workflow from solid
tissues to single cell libraries



dolomite
bio

Integrated workflow from solid tissues to single cell libraries

Achieving high-quality single cell data from solid tissues relies on consistent and reproducible cell or nuclei dissociation procedures. To overcome challenges often seen with manual cell dissociation methods, and to provide researchers with exceptional single cell data quality, S2 Genomics and Dolomite Bio are collaborating to develop an integrated single cell workflow. The combination of S2 Genomics' automated Singulator system and Dolomite Bio's Nadia platform enables solid tissues to be processed into single cell or nuclei libraries.

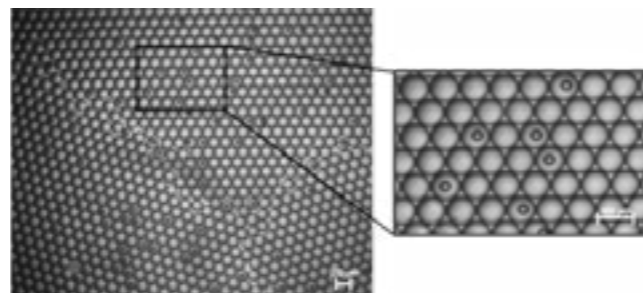


Cell or nuclei preparation in 10-60 min



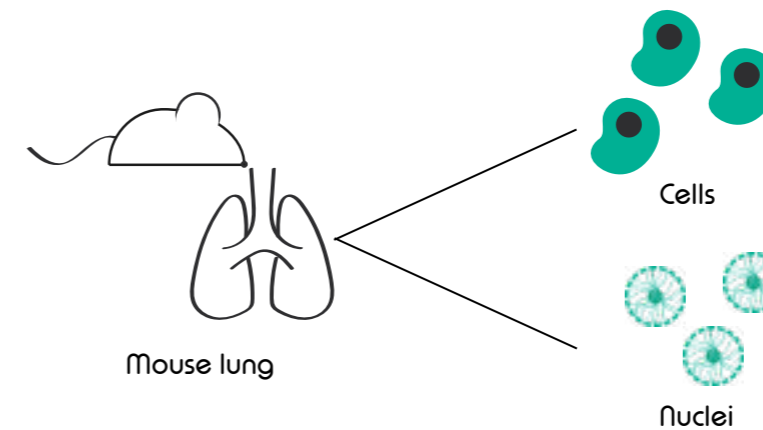
- Automated tissue sample preparation for single cells and nuclei.
- Retention of high cell viability throughout the dissociation process.

Cell or nuclei encapsulation in < 20 min



- High-throughput single cell or nuclei encapsulation.
- Patented stirrer technology for low doublet rates.
- Temperature control to maintain transcriptome state.

Mouse lung cell and nuclei samples



Median number of genes

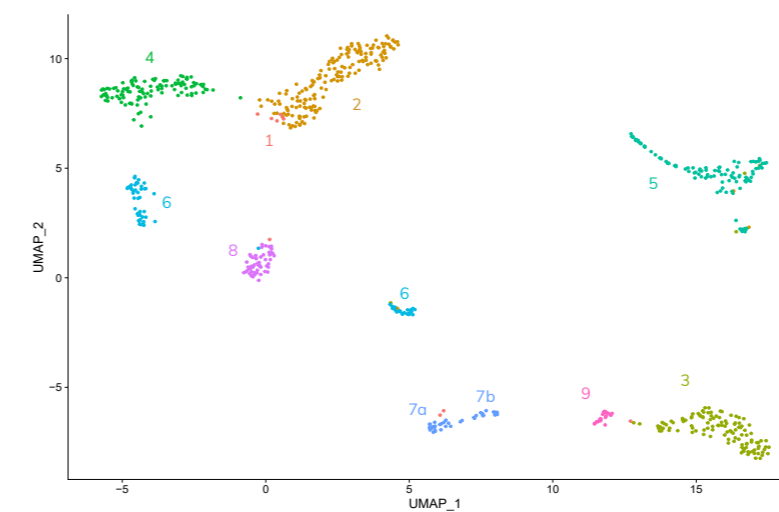
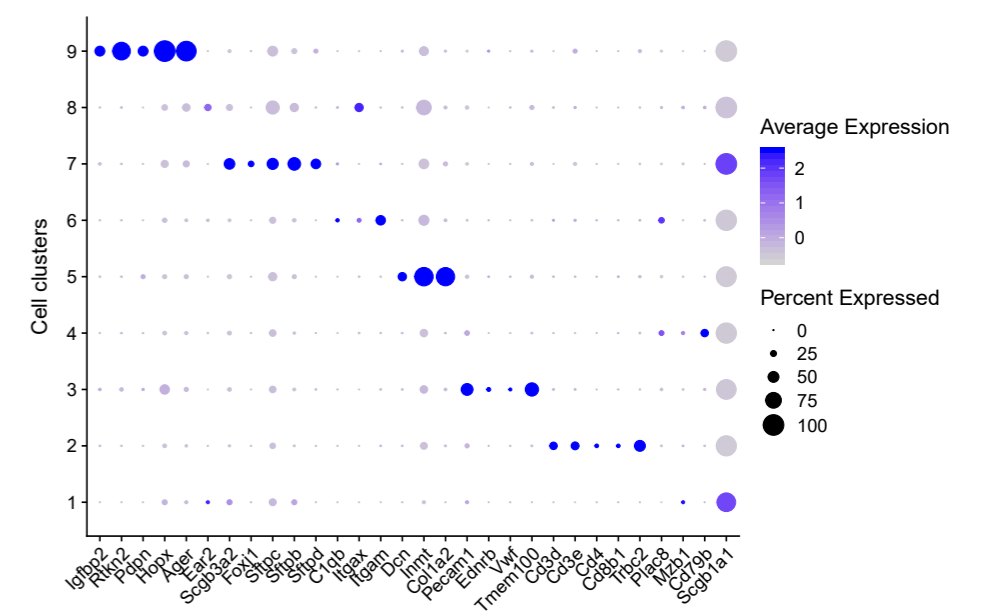
1,031

Median number of UMIs

2,003

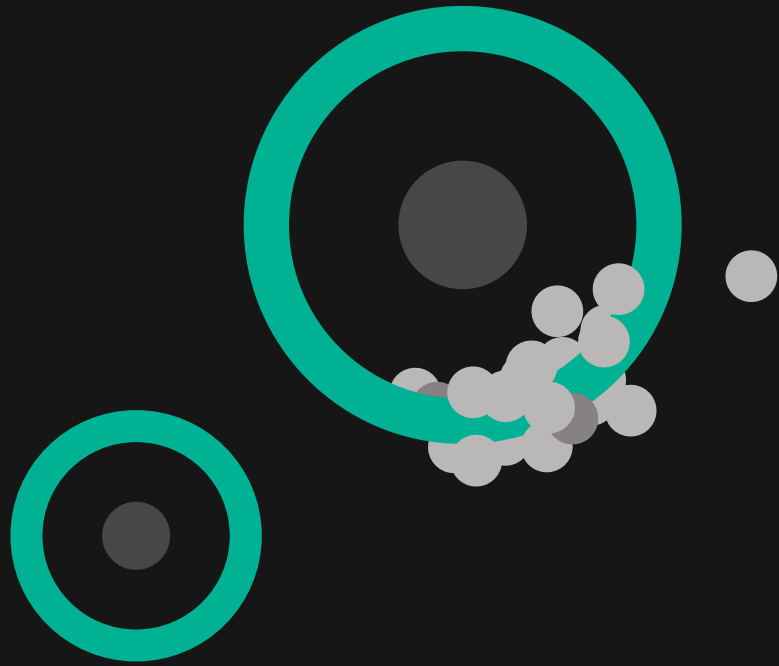
Expression of relevant mouse lung marker genes detected

The dotplot shows the percentage of cells expressing selected mouse lung marker genes (dot size) and average expression level of respective genes based on UMI counts (colour intensity). Rows represent identified cell clusters, demonstrating expression of relevant marker genes such as Ager, Cd79b, Foxj1 and Hopx.



Single-cell atlas of mouse lung reveals major cell-types

The uniform manifold approximation and projection (umap) visualization reveals ten distinct cellular identities. Comprising immune cells such as B- and T-cells and lung specific cells such as Type I and II Alveolar cells.



Get in touch

Email
info@dolomite-bio.com

Join us on



UK Head Office
(Europe, S.E. Asia,
Australasia, China, Middle
East, Africa)
t: +44 (0)1763 252 102

North America Office
t: +1 (617) 848 1211

Japan Office
t: +81 45 263 8211

Asia Regional Office
t: +84 93 555 60 80