CENTER for EPIGENOMICS at UC San Diego

Preparation of samples for 10x-sc/snRNA-seq

Single cell RNA-seq

1) Fresh cells: Provide single-cell suspension ≥250k cells (10x-scRNA + sci/10x-ATAC-seq (from same sample): ≥500k cells) with viability >80% in buffer with up to 10% serum.
2) Frozen cells: Provide single-cell suspension ≥250k cells (10x-scRNA + sci/10x-ATAC-seq (from same sample): ≥500k cells) on dry ice e.g. in 0.5 mL of media containing 10% DMSO.
   Note: Dissociation and freezing conditions to yield high viability of single-cell preparations are cell type-dependent.

Tissues

Tissues should be flash-frozen in liquid nitrogen immediately upon resection. (Input: 10x-snRNA: 250k nuclei; 10x-snRNA + sci/10x-ATAC-seq (from same sample): ≥500k nuclei)

General Notes:

1) **Important*:*** Before preparing a large set of samples for 10x-sc/snRNA-seq, we strongly recommend submitting 1-2 test samples of the same type and using the same preparation method as the larger batch of samples to be assayed.
2) If you cannot fulfill the sample input requirements, please contact epigenome@ucsd.edu we will find a custom solution for you.
3) We prefer that samples be submitted in standard 1.5 mL microfuge tubes. If you require another format, please contact epigenome@ucsd.edu to make arrangements prior to sample submission.