

- Users should be able to upload from their local machine or from a storage provider such as Dropbox.
- We need to know the "types" of the files that are uploaded. Users are able to set/edit the resource types in the file manager, but ideally they can set the resource type when they first upload (regardless of the upload source).
- For most cases (as MEV is currently used), users will upload a single expression/count matrix. However, there could be cases where a user will want to upload many files, such as when they are uploading Fastq or BAM files.
- For Fastq and BAM files (where one file = one sample), having the users manually annotate the types could be very tedious in the UI. Given that Fastq and BAM files typically have very standard file extensions, we can safely infer their types:
  - Fastq (FQ) types, case-insensitive: \*.fastq.gz, \*.fastq, \*.fq, \*.fq.gz
  - BAM (ALN) types, case-insensitive: \*.bam, \*.sam
- For other file extensions (\*.csv, \*.tsv, etc.), we can't safely infer and we will have to require that users specifically set the types.

