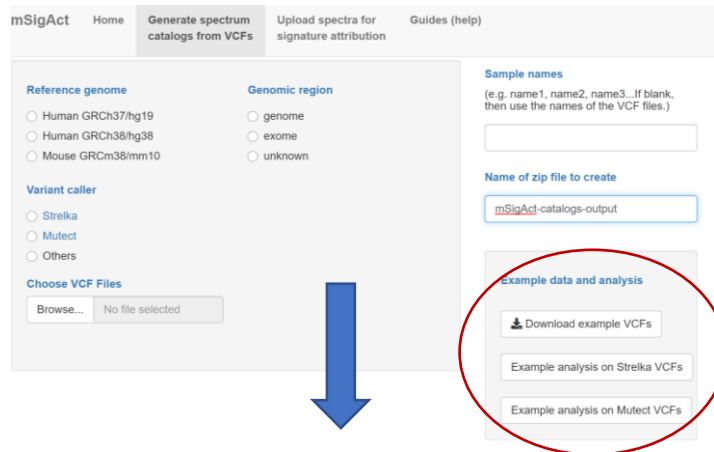


mSigAct: *mutational Signature Activity* <https://msigact.ai>

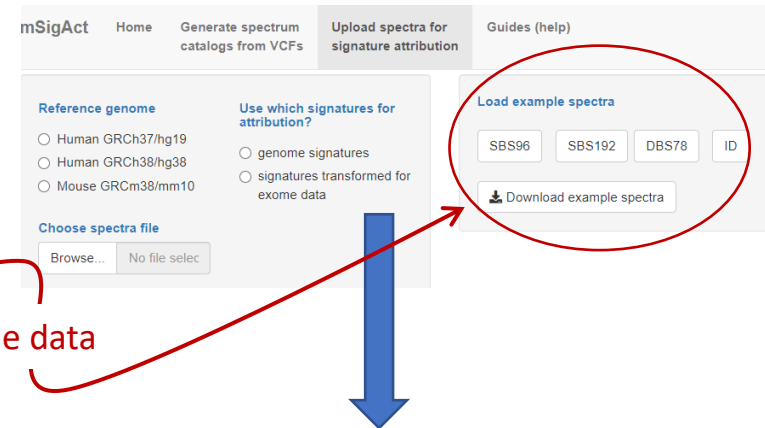
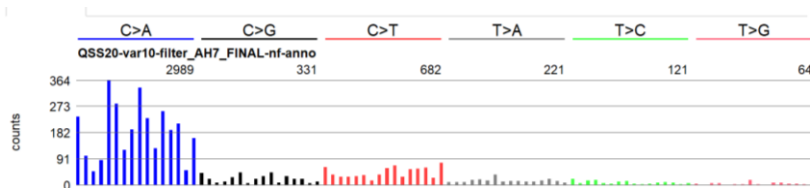
Generate mutational spectrum catalogs
from uploaded VCFs (variant call files)

Compute mutational signature attributions for
uploaded mutational spectra or for mutation
spectra derived from VCFs







The interface for generating spectrum catalogs from VCFs. It includes sections for Reference genome (Human GRCh37/hg19, Human GRCh38/hg38, Mouse GRCm38/mm10), Genomic region (genome, exome, unknown), Variant caller (Strelka, Mutect, Others), and Choose VCF Files (Browse... No file selected). A blue arrow points down to the download section. A red circle highlights the 'Example data and analysis' section, which contains 'Download example VCFs', 'Example analysis on Strelka VCFs', and 'Example analysis on Mutect VCFs'.

Download mutational spectra as .csv files;
download or view plots of spectra



The interface for uploading spectra for signature attribution. It includes sections for Reference genome (Human GRCh37/hg19, Human GRCh38/hg38, Mouse GRCm38/mm10), Use which signatures for attribution? (genome signatures, signatures transformed for exome data), and Choose spectra file (Browse... No file select). A red circle highlights the 'Load example spectra' section, which contains buttons for SBS96, SBS192, DBS78, and ID, and a 'Download example spectra' button. A blue arrow points down to the attribution section.

View and download attributions and plots of constituent
signatures and of reconstructed spectrum

Name	Count	Cosine similarity	Spectrum	Proposed aetiology
QSS20-var10-filter_AH7_FINAL-nf-anno	4,408.0	1.00000		
Reconstructed spectrum	4,405.0	0.90748		
SBS24	2,960.6			Aflatoxin exposure
SBS18	1,447.4			Damage by reactive oxygen species