

tissue/culture prep isolation fixation

isolation fixation embedding sectioning coordinates



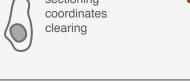
probe design and construction

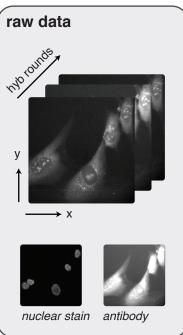
genes
mRNA targeting oligos
detection method
fluorophores
amplification
hybridization rounds
extinguish method
error correction code

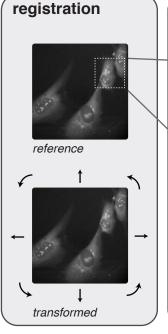


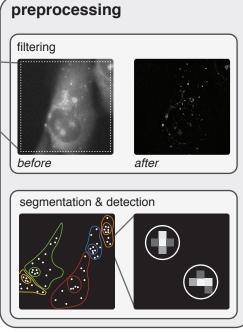
imaging

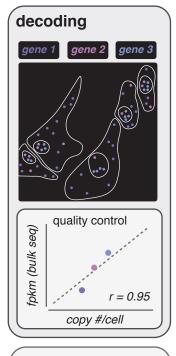
objective
exposure time
fields of view
laser lines to excite fluorophores
beads (alignment, chromatic, psf)
nuclear marker











metadata

per field of view raw_stack.tif dapi.tif, antibody.tif codebook schemas

codebook schemas
hyb | bit position
gene | bit-string

per field of view
reg_stack.tif
affine_transform.mat

global
chromatic_correc.mat
references.csv

per field of view
proc_stack.tif
cells_geo.json
spots_geo.json

encoder table schema
cell_id | spot_id | x | y | z | hyb | val

qualiy metrics
assay_comp.json
control_barcodes.json
metrics.json

decoder table schema
spot_id | gene