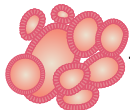


a

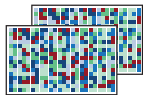
Experimental platform

Patient derived cancer organoids



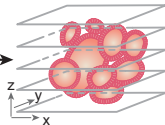
+ Sequencing
+ Expression

High-throughput drug perturbation



Libraries with 464 and
63 compounds à 5 conc.

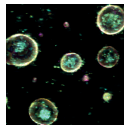
Confocal imaging



3 channel-imaging
(DNA, actin, permeability)

Image analysis

Maximum contrast projection



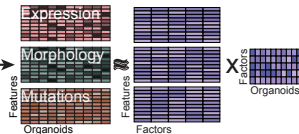
Processing of 6 Mio images,
single organoid resolution

Segmentation



Data integration

Multi-omics factor analysis
(MOFA)



Decomposition of multi-view data,
biological interpretation