

# Pictures experimental part

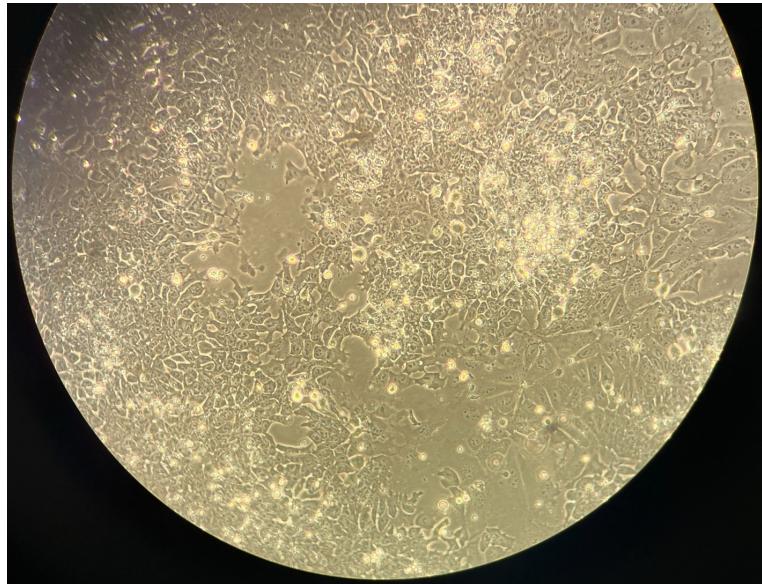
scATAC-seq course

08.04.2024  
EMBL Heidelberg



# mESCs

LIF+

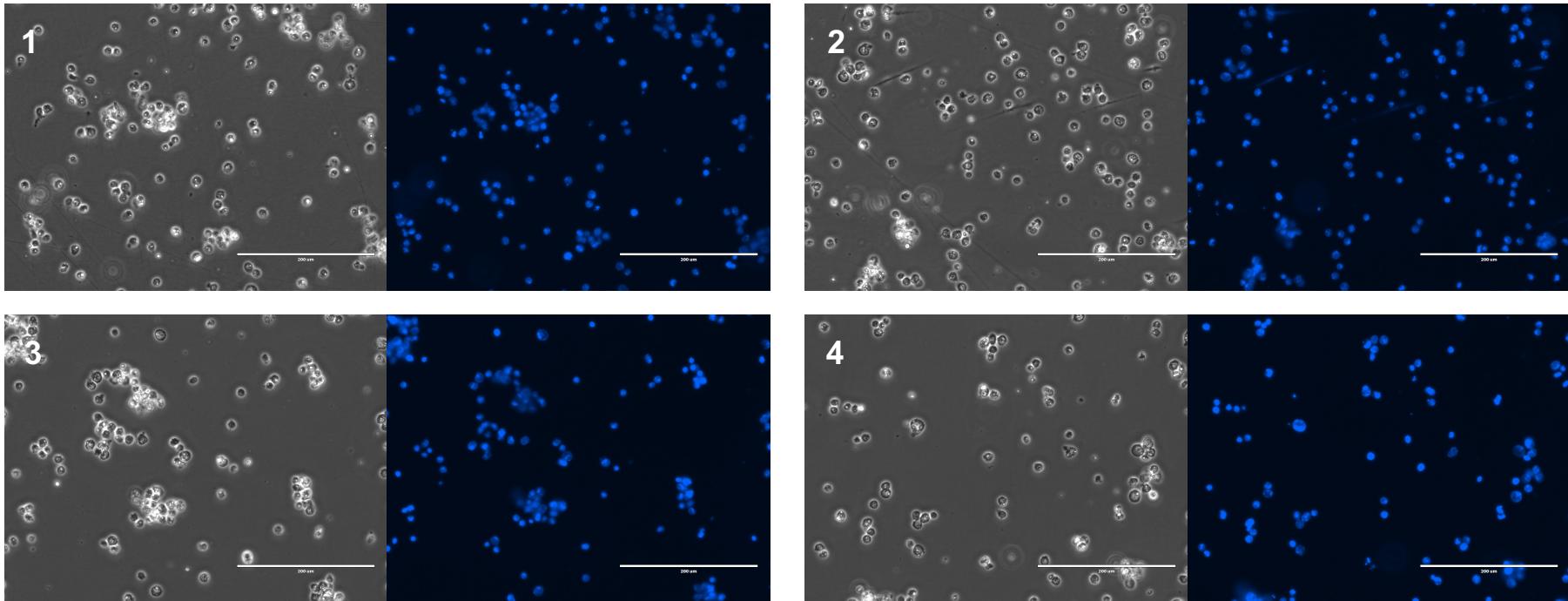


LIF-

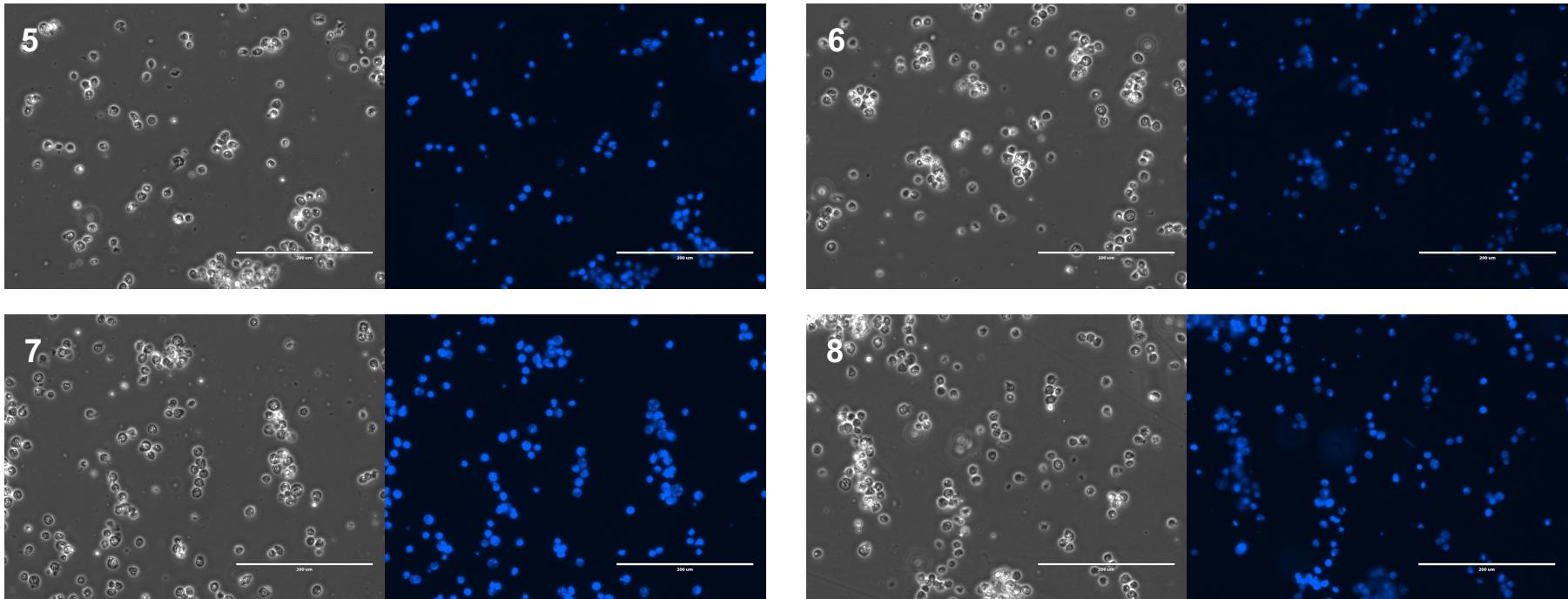


08.04.24

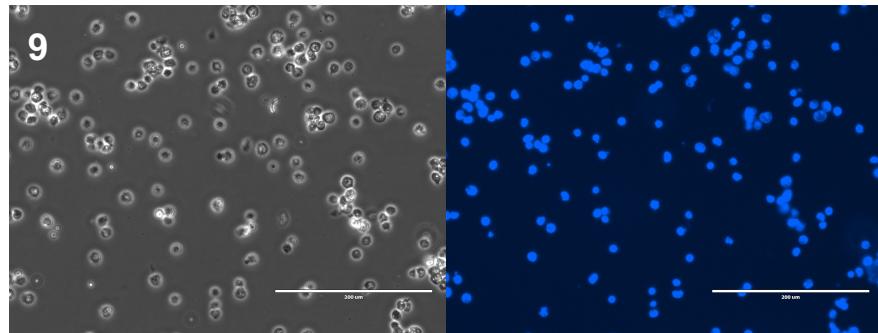
# Isolated nuclei



# Isolated nuclei



# Isolated nuclei



# GEMS



wetting  
failure?

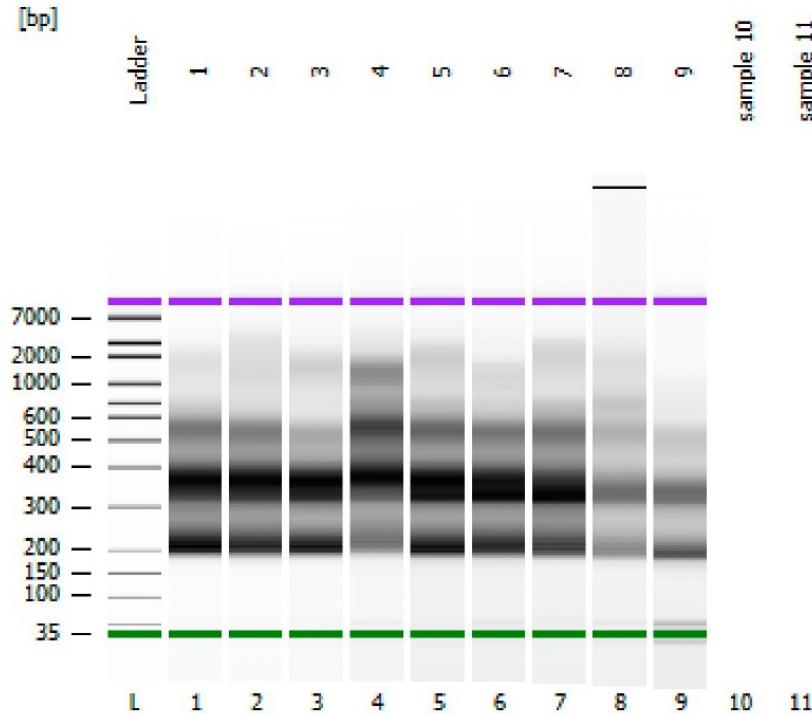


10K  
cells      pooled  
beads

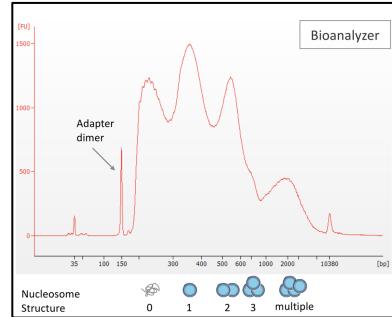
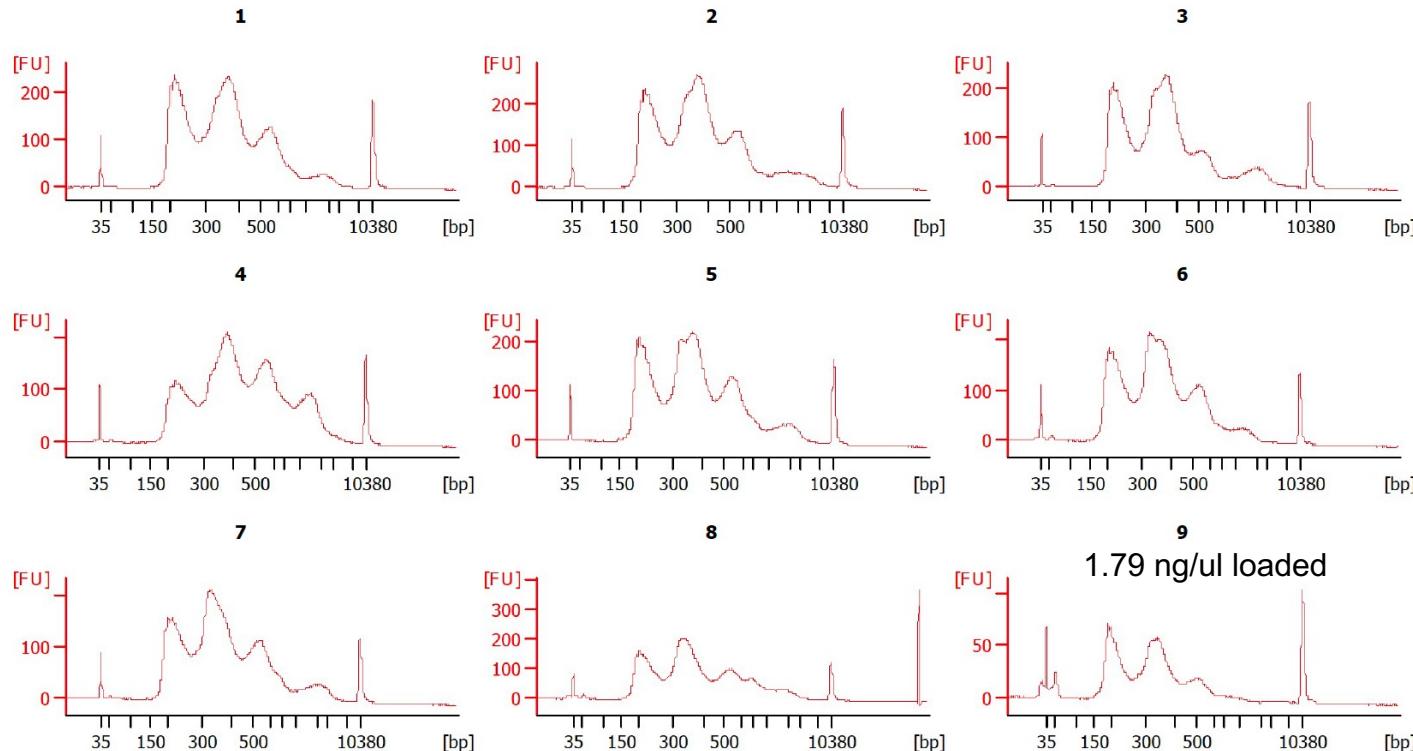
# Qubit concentrations

group	ng/ul	comments
1	32.5	
2	30.2	10K cells loaded?
3	22.6	
4	8.66	Wetting failure?
5	29.2	Pooled beads
6	9.99	?
7	30.7	
8	6.92	perhaps added SPRI beads in incorrect ratio by mistake
9	1.79	?

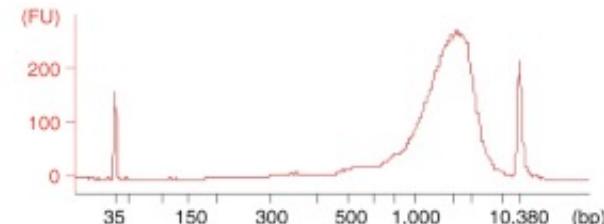
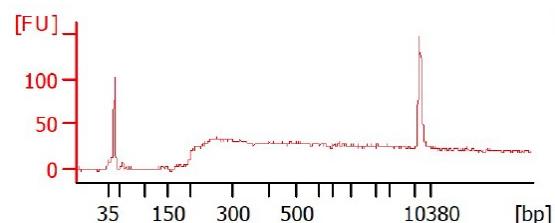
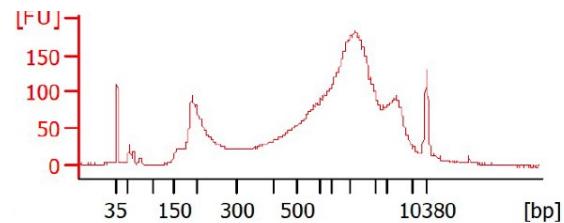
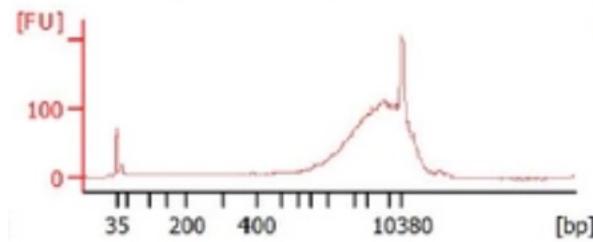
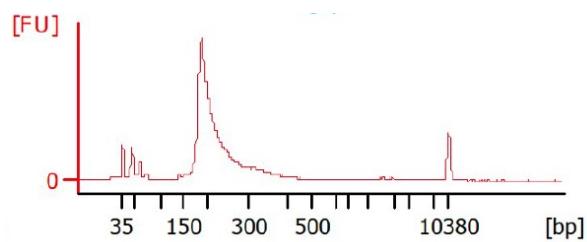
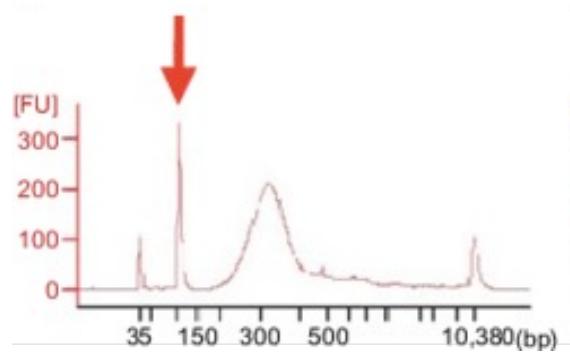
# Bioanalyzer of course samples



# Bioanalyzer: 5 ng / library loaded

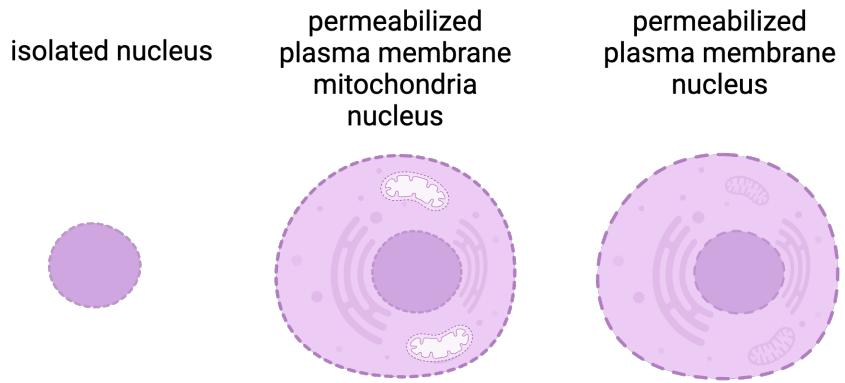
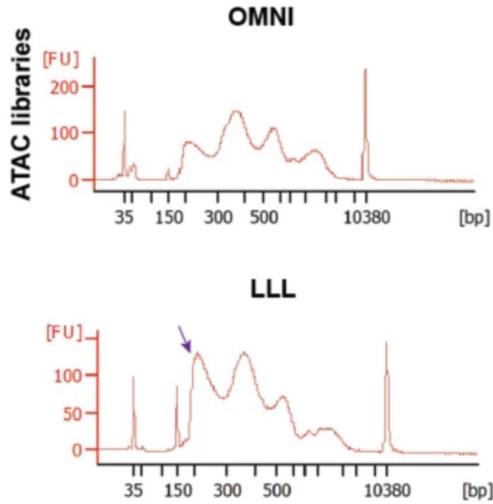


# Funny BioA's



# omni-ATAC vs LLL

Fig. 3



**omni-ATAC**  
10 mM Tris-HCl pH 7.4  
10 mM NaCl  
3 mM MgCl<sub>2</sub>  
0.1% NP40  
0.1% Tween-20  
0.01% digitonin  
1% BSA

**Low Loss Lysis (LLL)**  
10 mM Tris-HCl pH 7.4  
10 mM NaCl  
3 mM MgCl<sub>2</sub>  
0.1% NP40  
1% BSA

**Digitonin permeabilization**  
20 mM Tris-HCl pH 7.4  
150 mM NaCl  
3 mM MgCl<sub>2</sub>  
0.01% - 0.20% digitonin

- mtDNA in LLL?

# Bioanalyzer vs Tape Station

