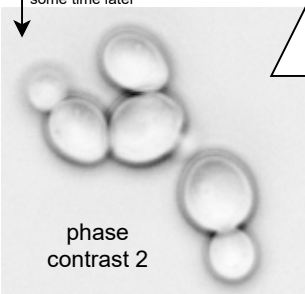
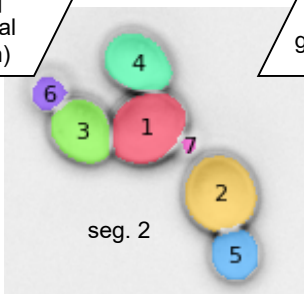
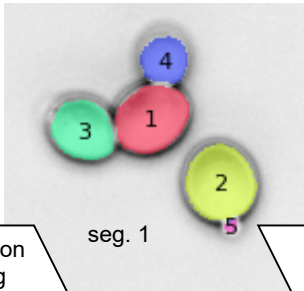


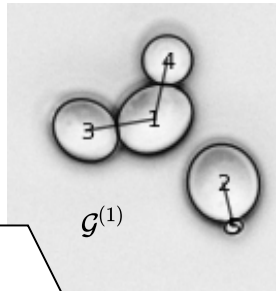
some time later



segmentation
+ tracking
(YeaZ [1]
and manual
correction)

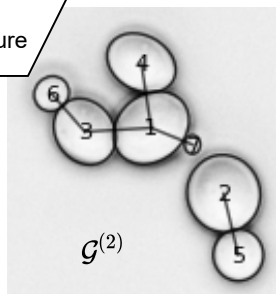


feature
extraction
+
graph structure



cell_id	A	r_equiv	e
1	2154.50	26.22	0.58
2	2294.50	27.06	0.40
3	1648.00	22.99	0.51
4	1010.00	18.00	0.18
5	95.50	5.67	0.68

cell_id1	cell_id2	rho	theta	I
1	3	47.85	1.63	1.00
1	4	47.36	0.15	2.00
1	7	32.11	-1.96	2.00
2	5	45.59	-2.91	1.00
3	6	36.43	0.72	2.00

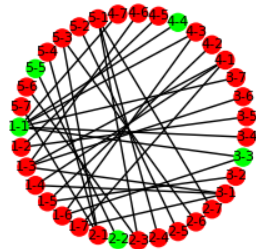


cell_id	A	r_equiv	e
1	2199.50	26.52	0.59
2	2312.00	27.17	0.34
3	1639.00	22.97	0.55
4	1612.00	22.72	0.66
5	1057.50	18.40	0.26
6	490.00	12.61	0.36
7	116.00	6.26	0.54

cell_id1	cell_id2	rho	theta	I
1	3	50.32	1.74	2.00
1	4	43.33	-0.22	1.00
2	5	32.15	-2.91	1.00

$$\mathcal{G}^{(a;y)}, \mathcal{G}^{(a;x,e)}$$

y : target class (0 or 1)
x : node features (concat)
e : edge features (concat)



to GNN