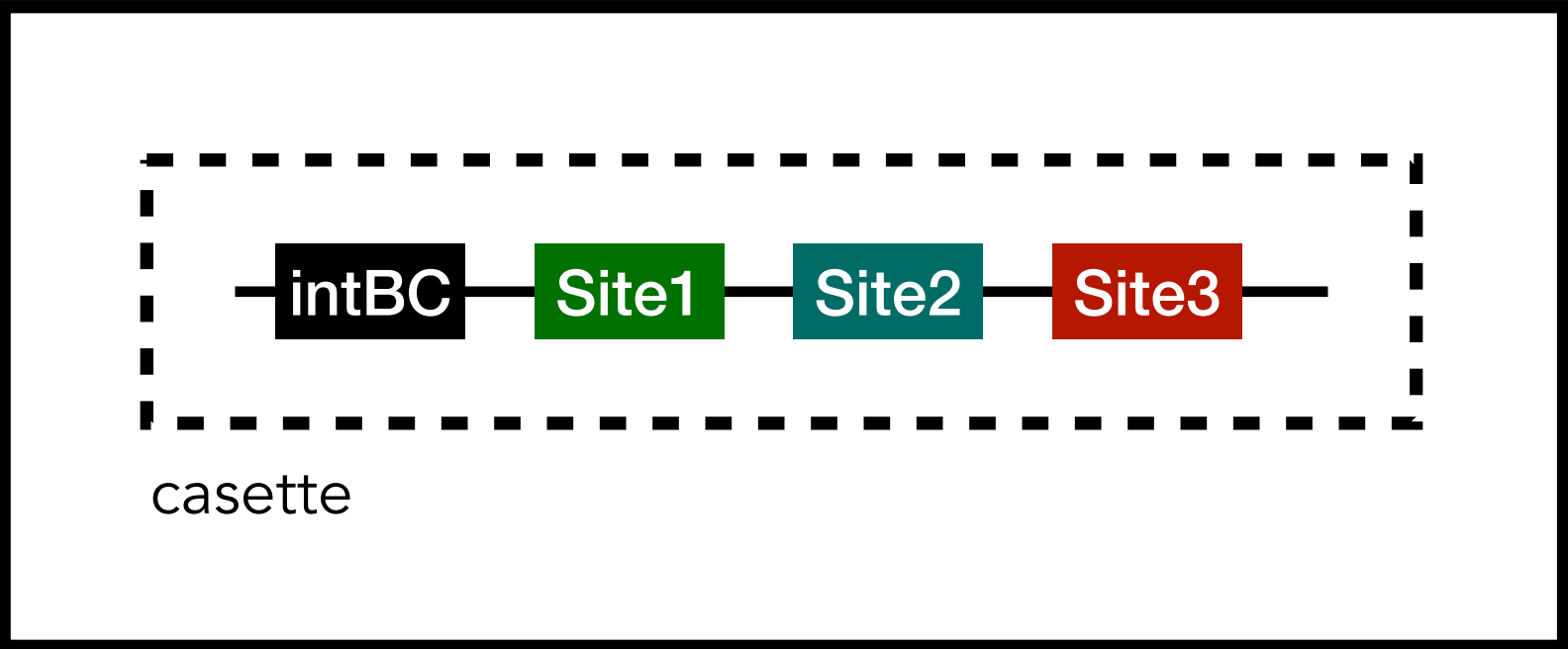
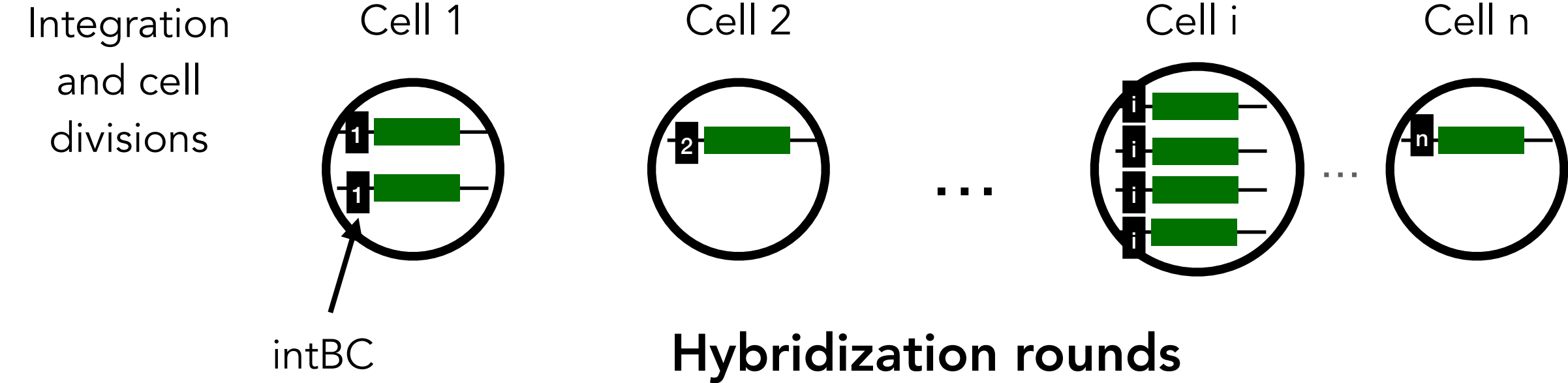


(A) Example lineage tracing system



(B) (After lineage tracing, for a single site  $k$ )



(C)

Cell barcod	Site index	Max Pr	Pr(AG)	Pr(GG)	Pr(AA)	Pr(GA)
cell1	0	AG	0.76	0.02	0.20	0.02
cell1	1	GG	0.32	0.45	0.19	0.08
...	...	...	...	...	...	...
cell n	3	GA	0.02	0.02	0.04	0.92

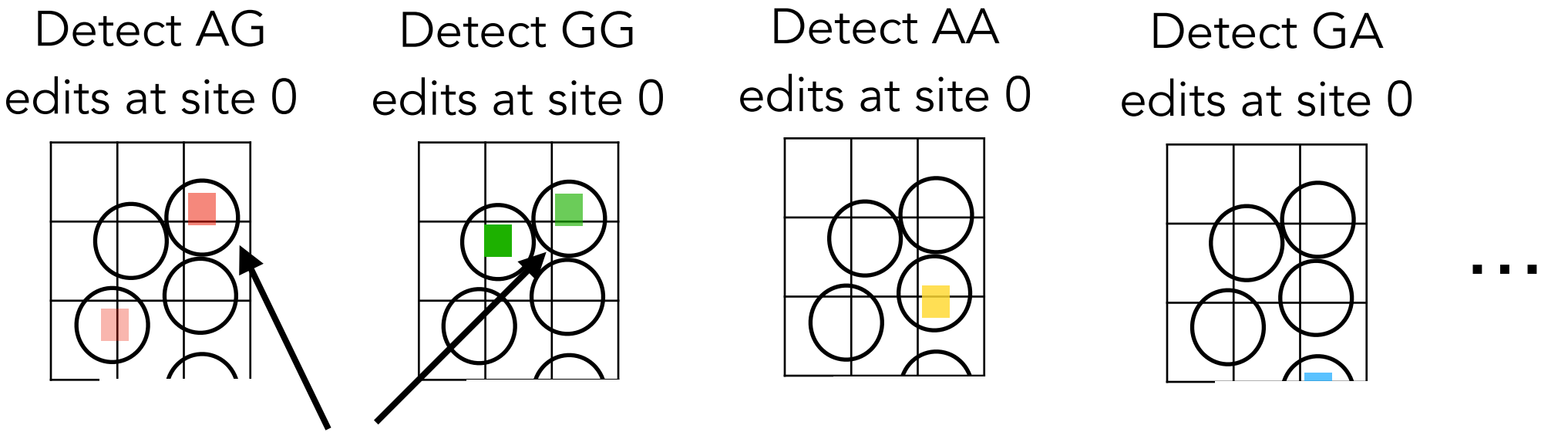


Image processing to extract cells and classify states