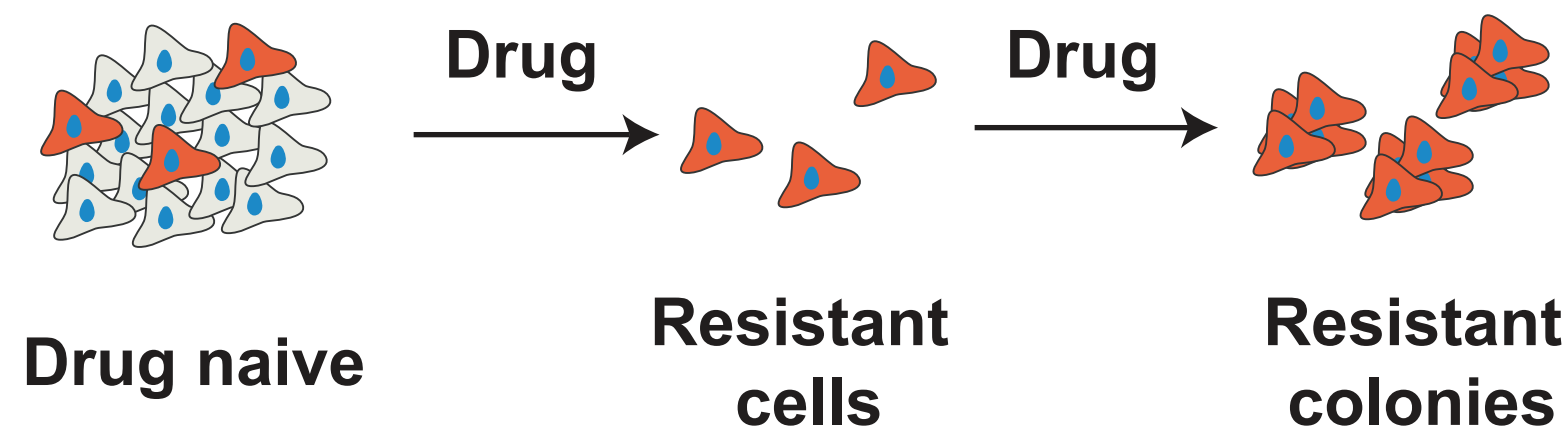
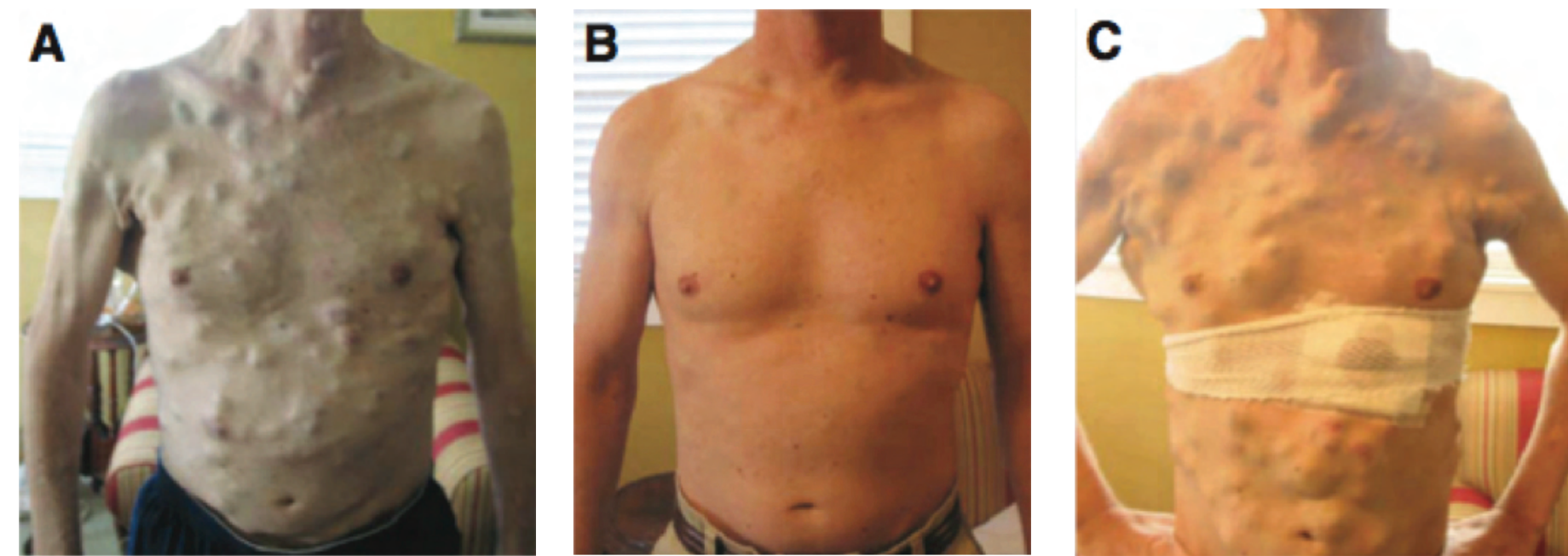
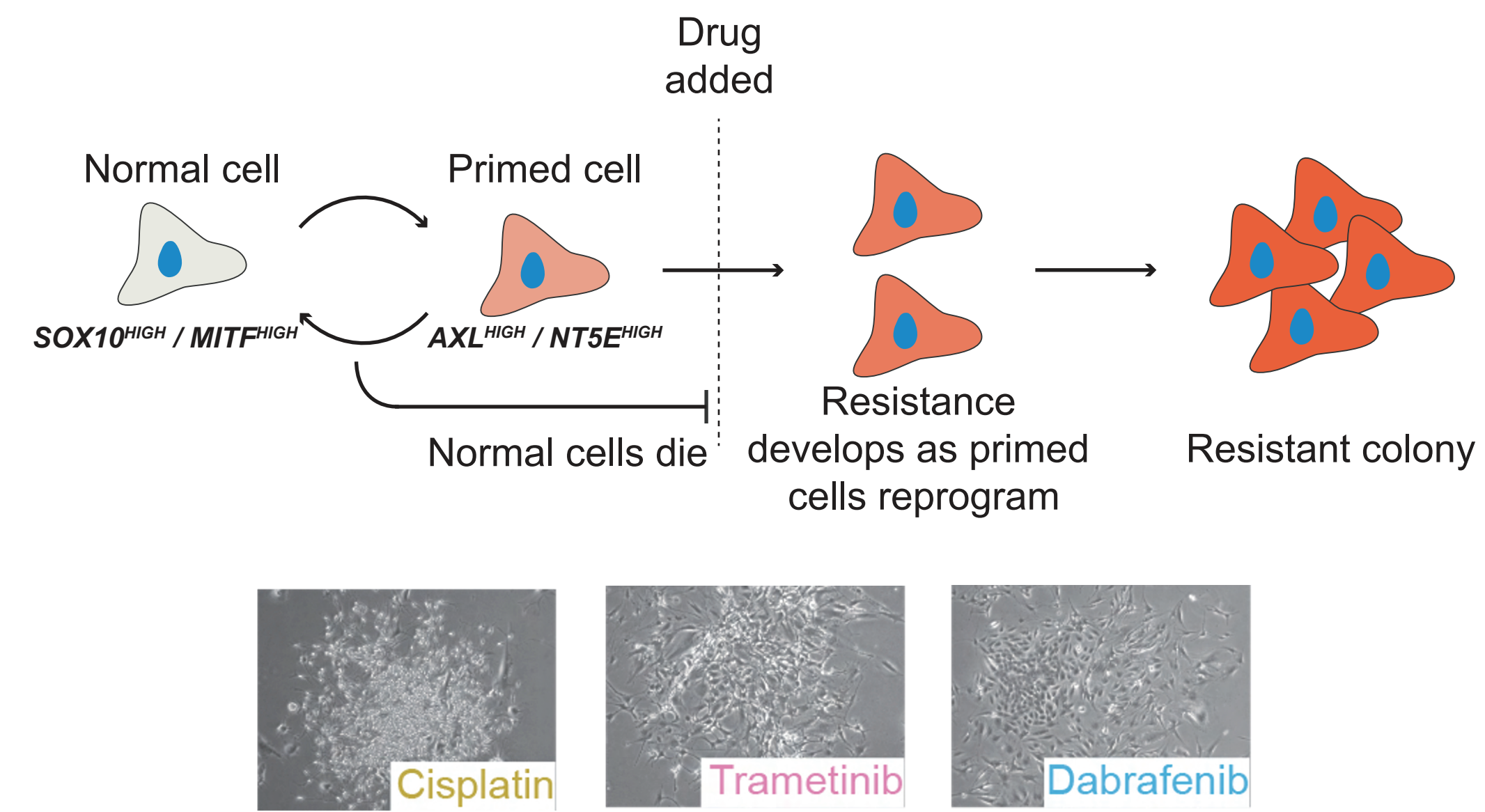


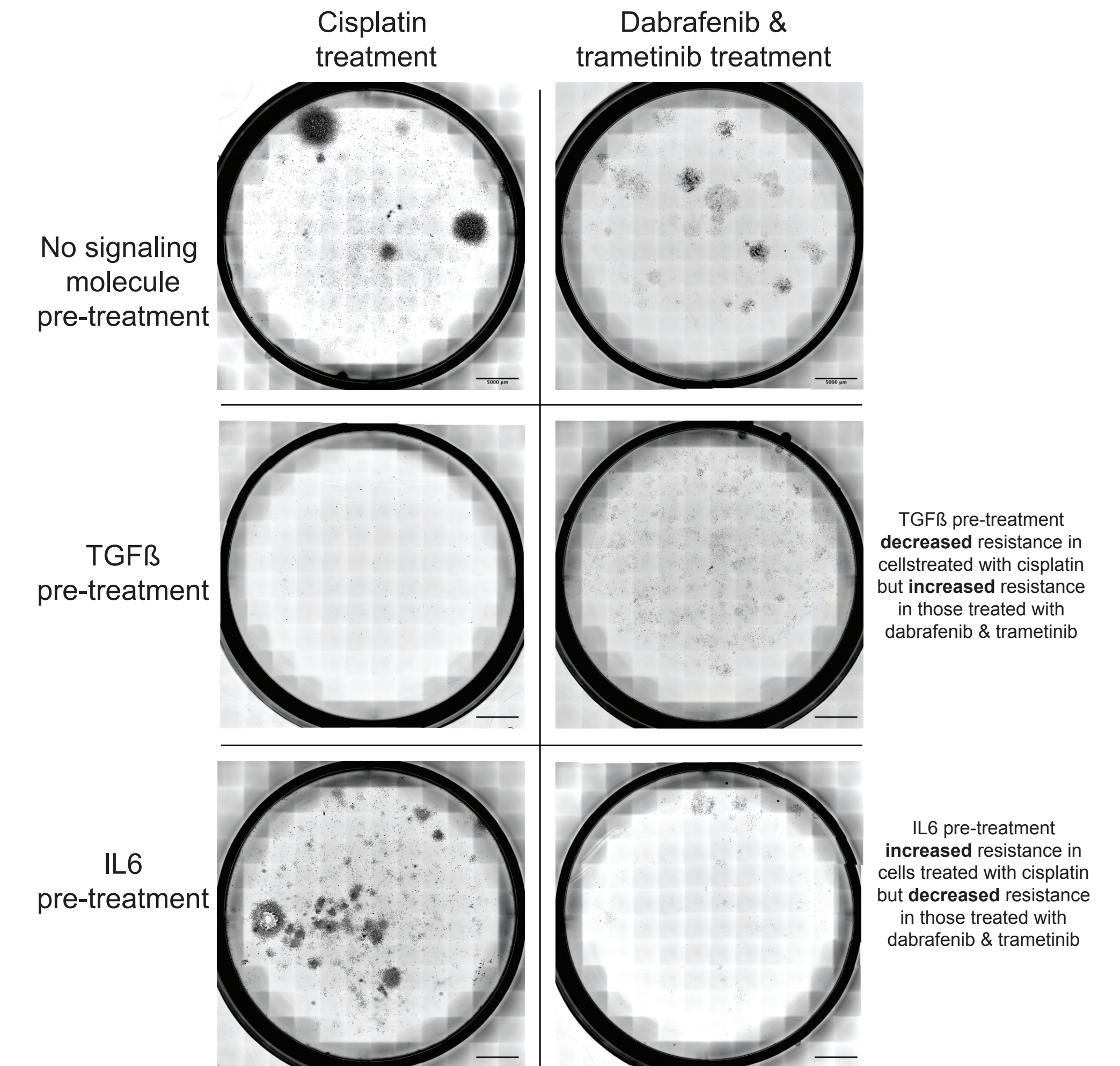
Melanoma is characterized by frequent drug resistance¹



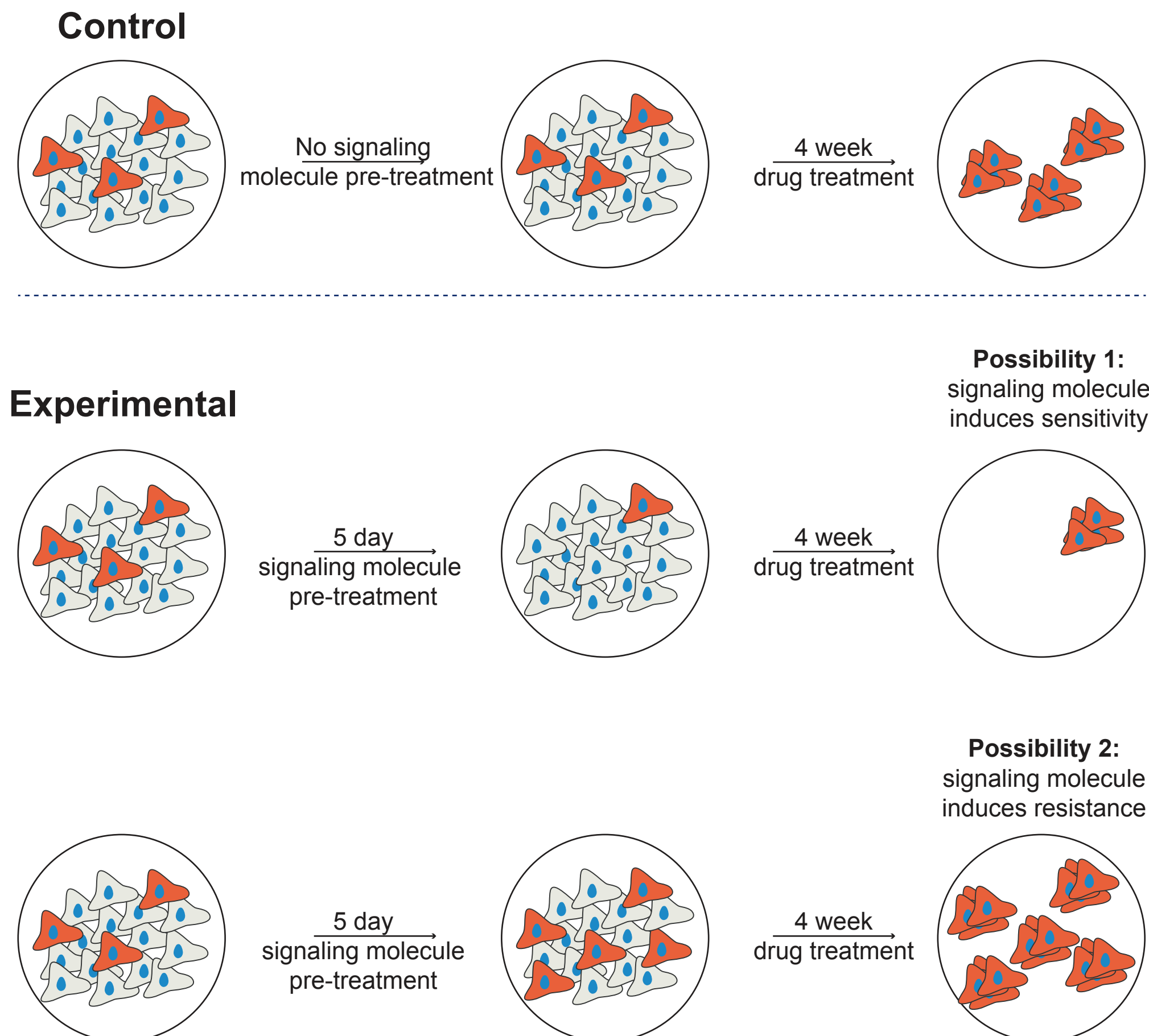
We have identified a gene expression state that confers drug resistance in melanoma²



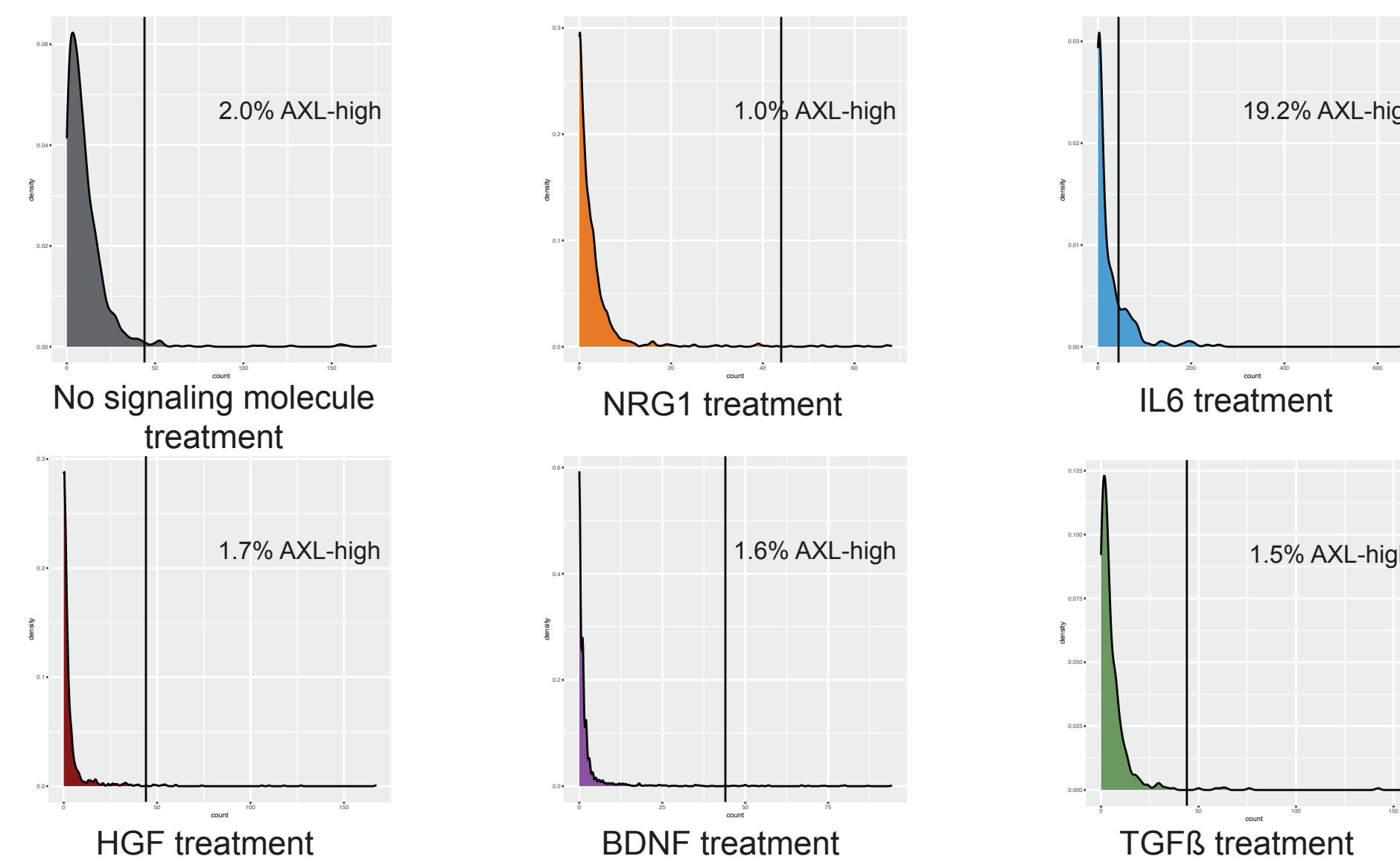
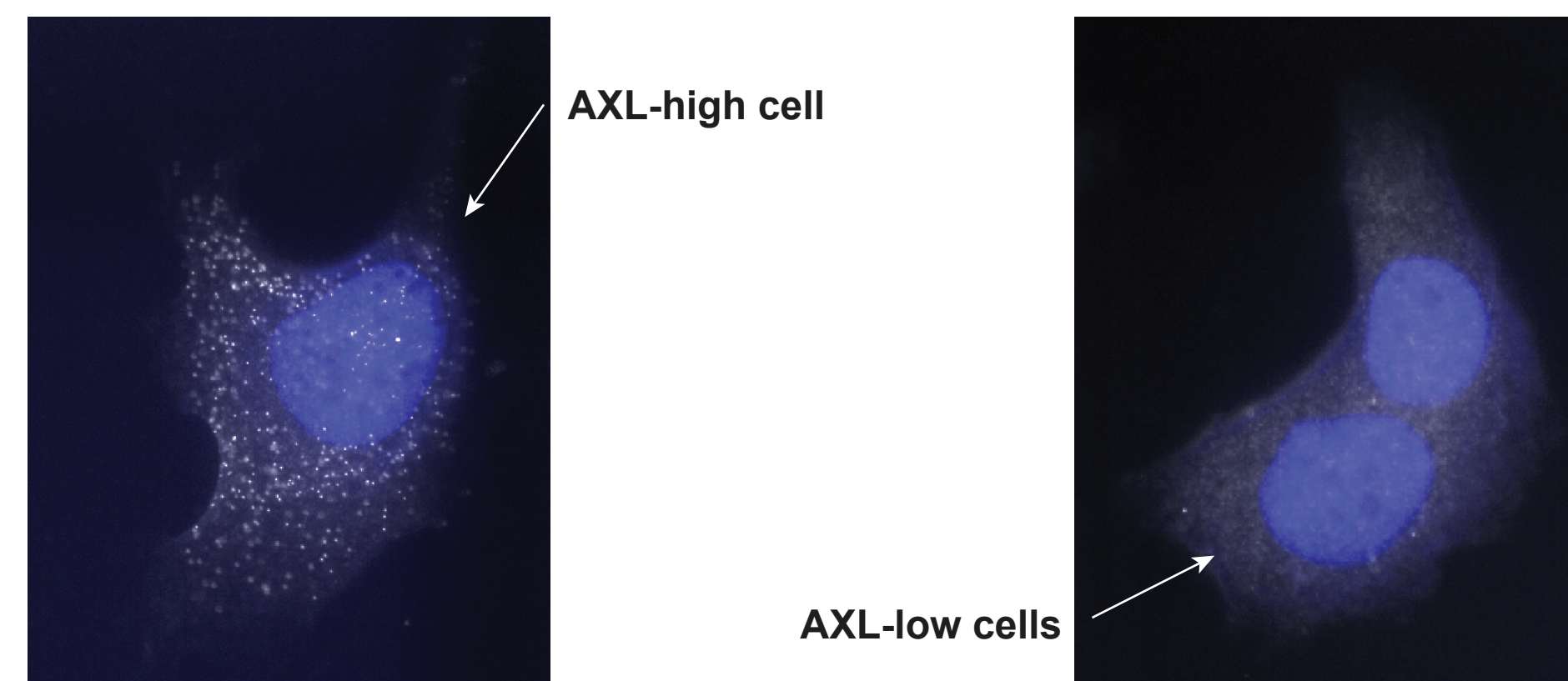
Treatment with signaling molecules altered the frequency of drug resistance



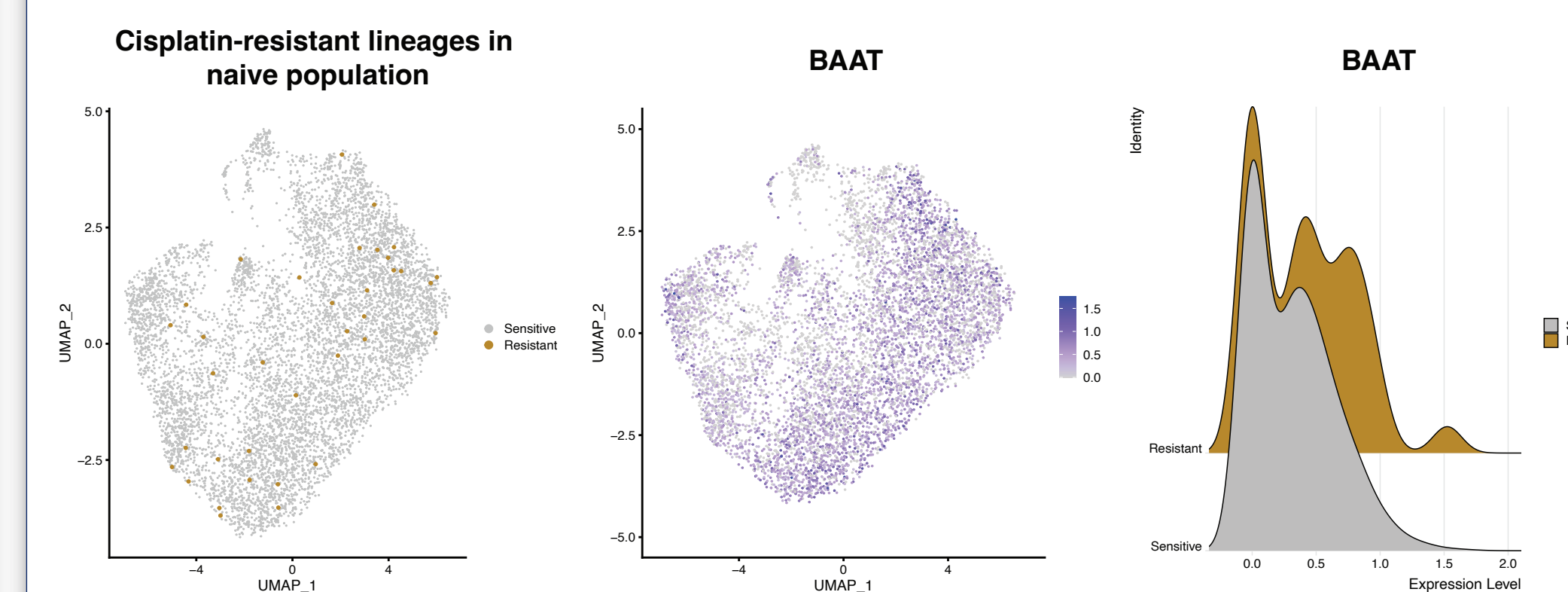
How will pre-treatment with signaling molecules affect the frequency of drug resistance?



Treatment with signaling molecules altered the gene expression state of melanoma cells



We will investigate how TGFβ and IL6 affect the frequency of drug resistance in cisplatin by probing for specific marker genes



References

1. Wagle et al., *J. Clin. Oncol.* 2011
2. Shaffer et al., *Nature*, 2017