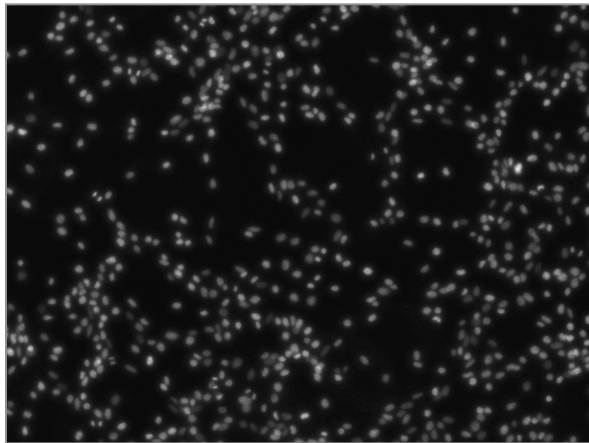


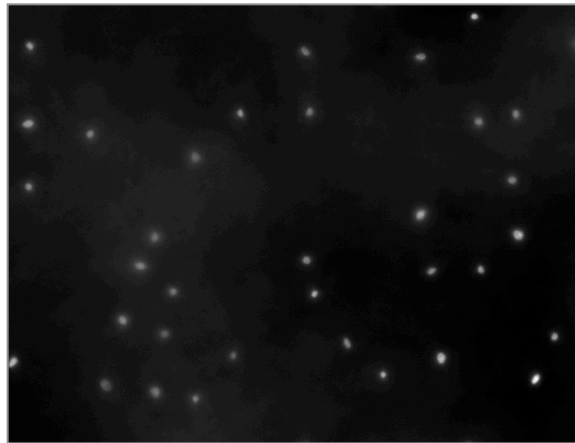
Background for this experiment:

Cancer cell samples have been treated with a negative control, a positive control, and a promising new anti-cancer drug “Chemical A.” The DNA in the cells has been stained, so that each nucleus appears as a bright spot. Photographs of the cells were taken and are shown here.

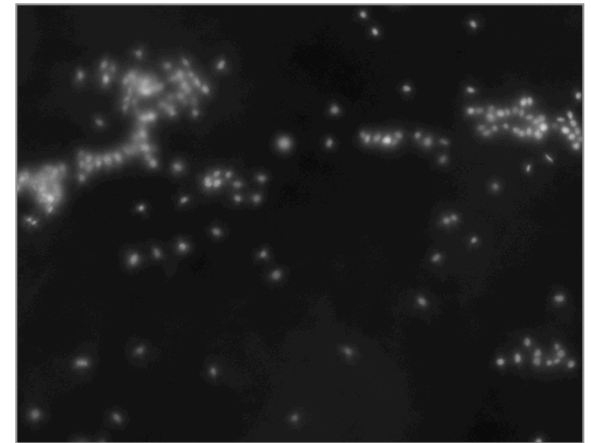
negative control



positive control



promising new anti-cancer drug
“Chemical A”



- 1) What does it mean about what has happened to the cancer cells, when there are lots of bright dots in an image (versus very few bright dots)?
- 2) How and why would cancer researchers conclude from these photos that “Chemical A” is indeed a promising new anti-cancer drug?
- 3) What do you think might have been used as a positive control and a negative control in this experiment? Explain your answer.