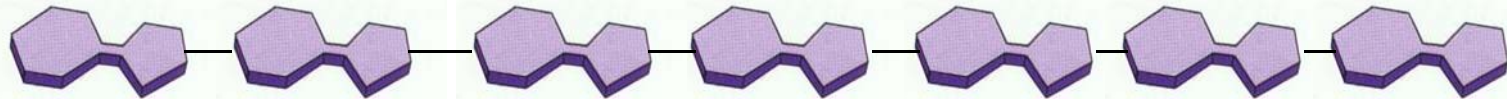
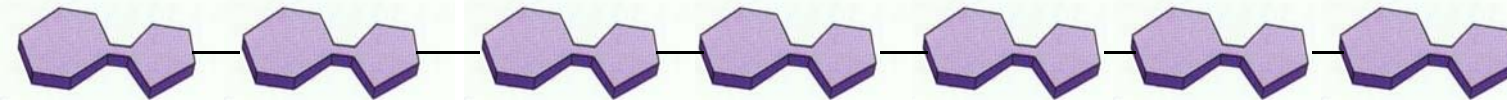


FIGURE 7-10

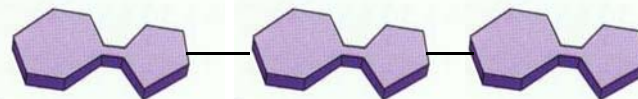
Monosaccharide Chain= Polysaccharide Chain



Enzyme



Dissaccharide

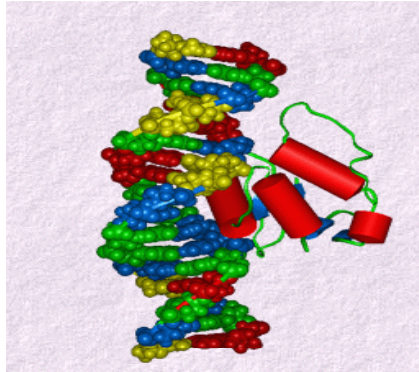


Trisaccharide

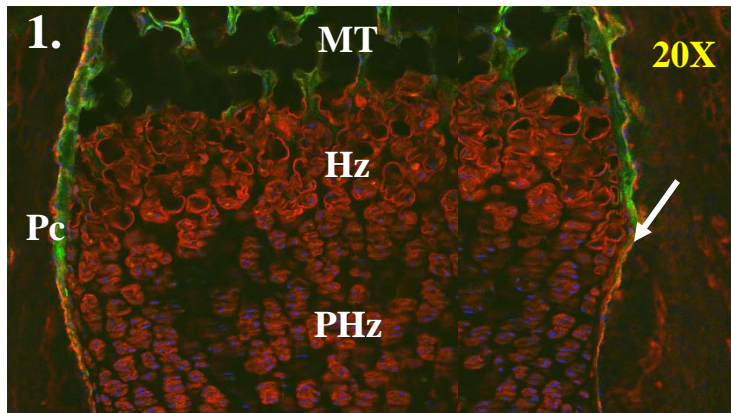
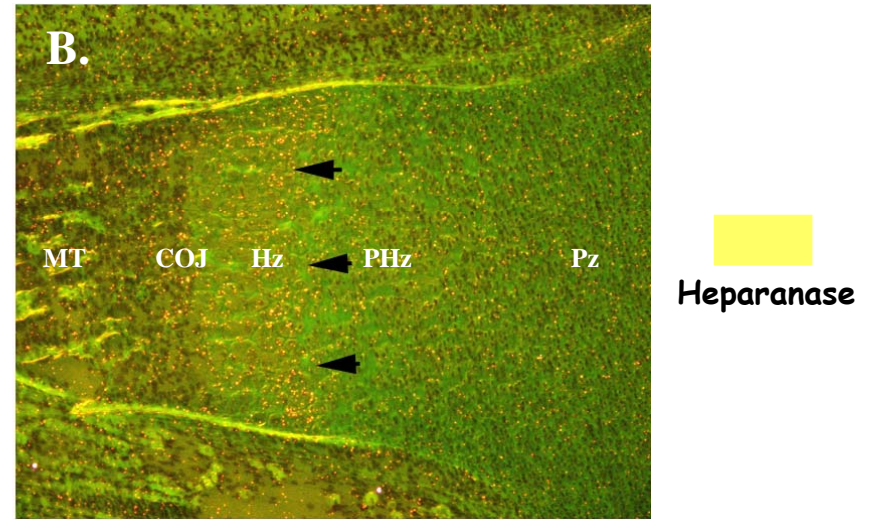


Trisaccharide

Heparanase



Heparanase



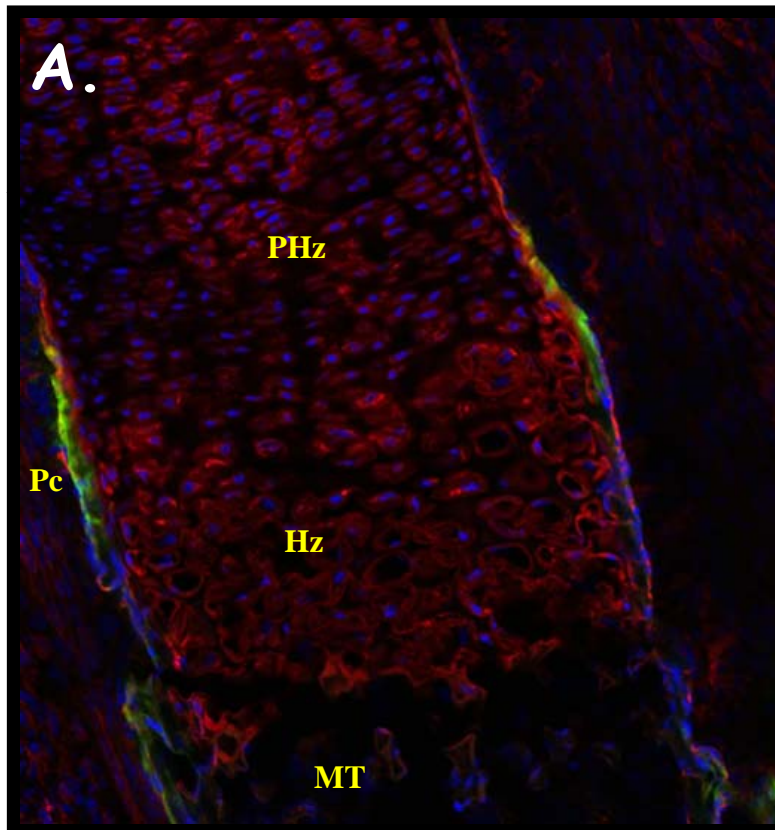
Heparanase

Problem: Is heparanase important in bone development?

Hypothesis: If heparanase is overexpressed, then bone formation will be abnormal.

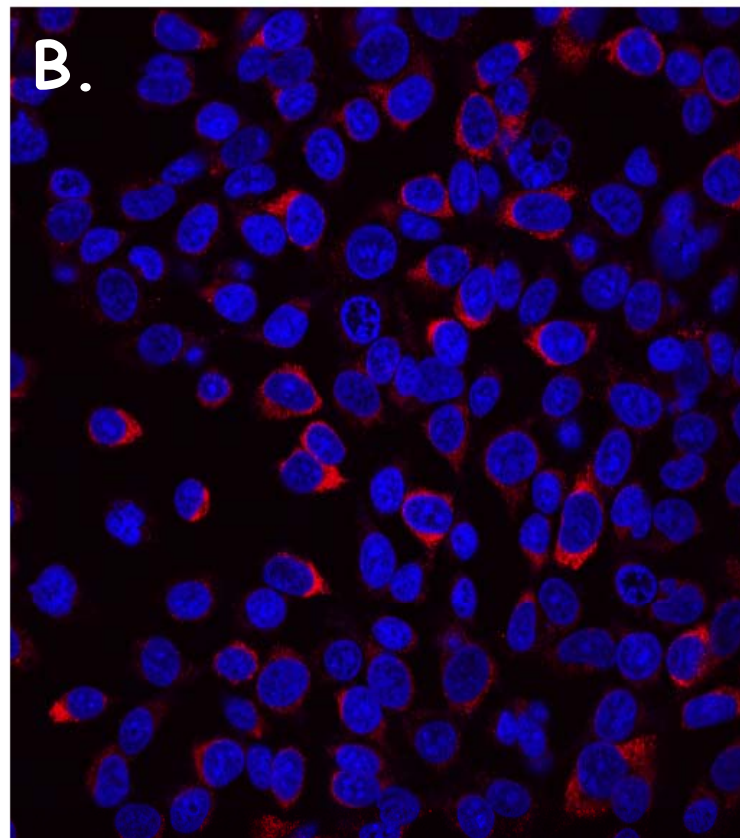
Heparanase-1 (Hpa-1), a member of the trimolecular complex, expression in mouse limb and chondrocytes

In vivo



RED: Perlecan **GREEN:** Hpa-1
BLUE: Nuclei

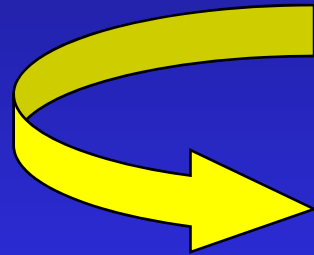
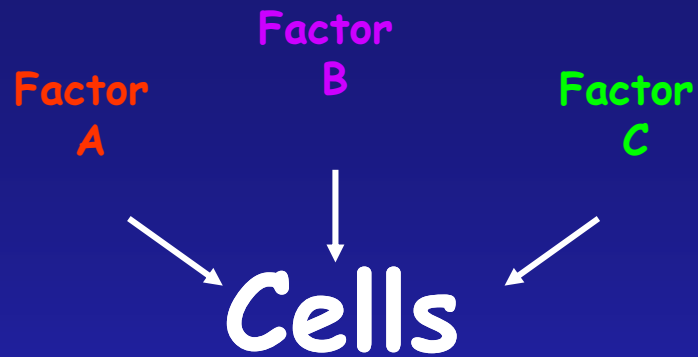
In vitro



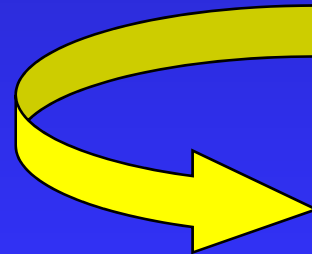
RED: Hpa-1 **BLUE:** Nuclei



2day old metatarsal
from ICR mouse

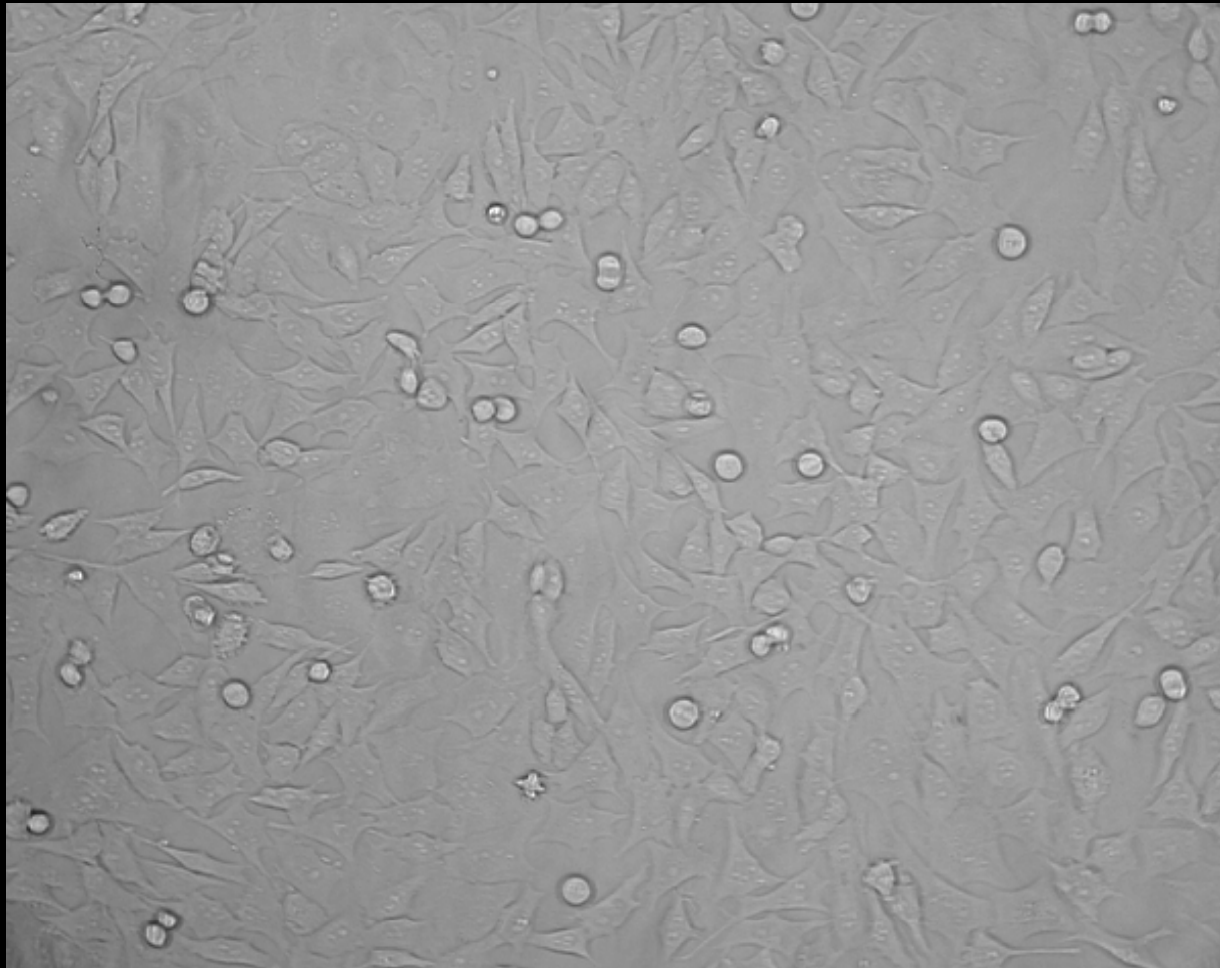


Tissues



Organs

How does this relate to my "science project"?



ATDC5

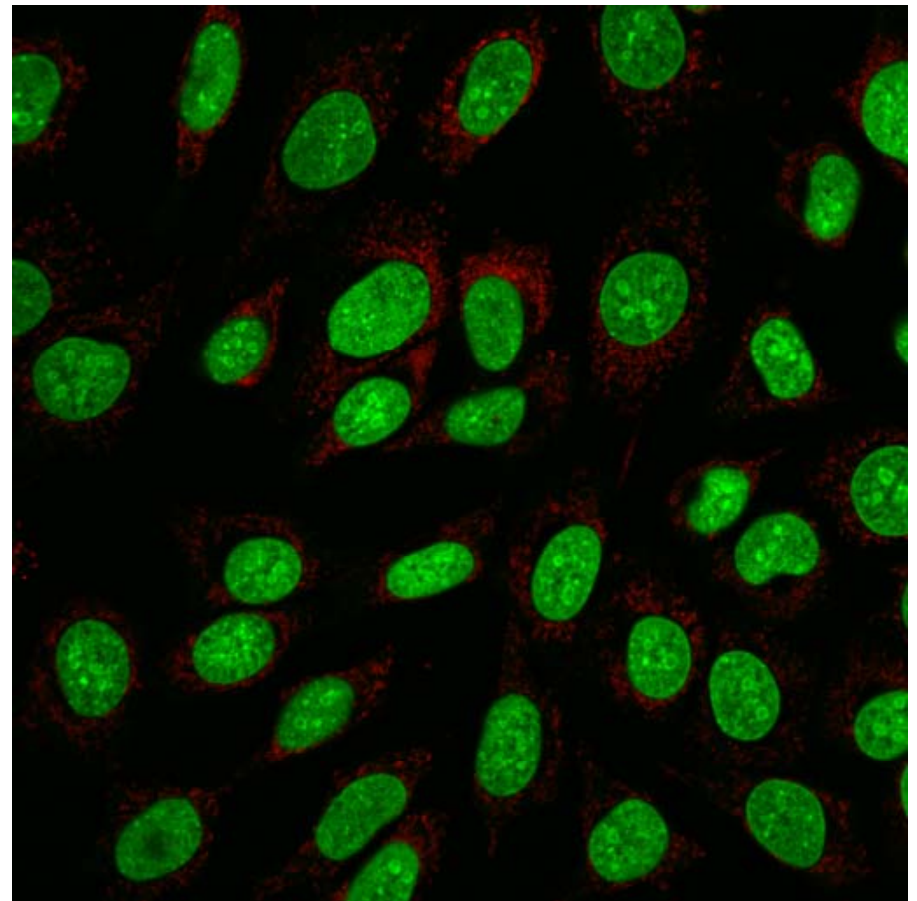
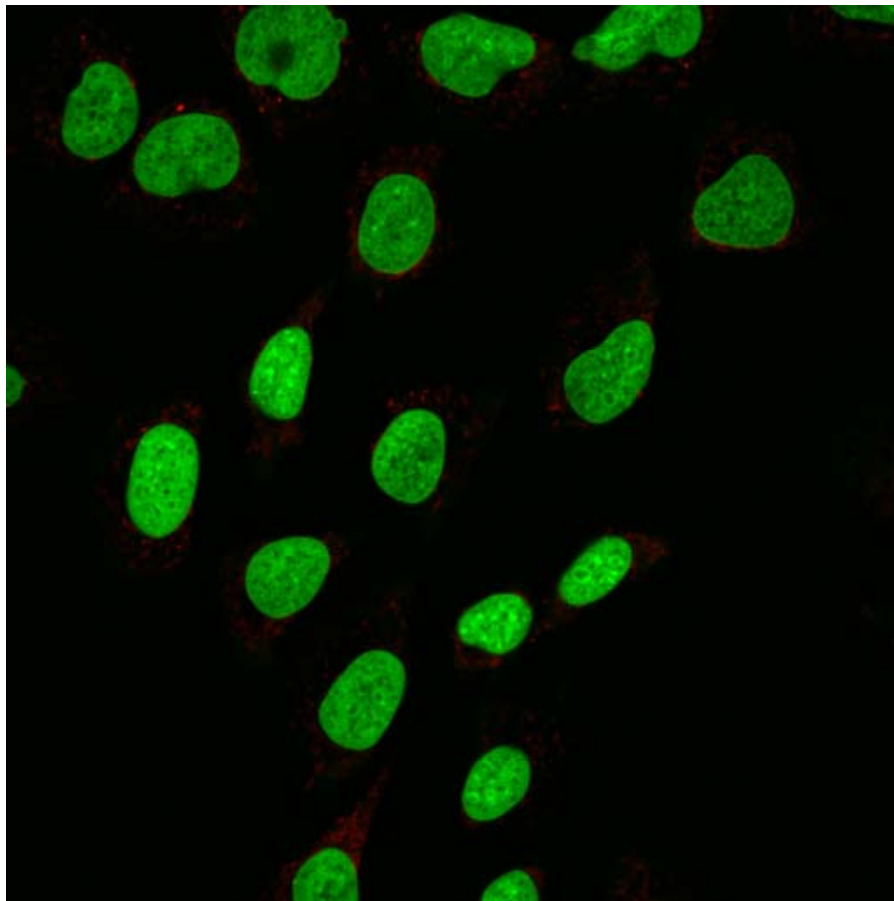
Hpa-1 Staining in undifferentiated ATDC5 parental and overexpression clone.

There appears to be more Hpa-1 in overexpression clone which may be a confirmation of overexpression

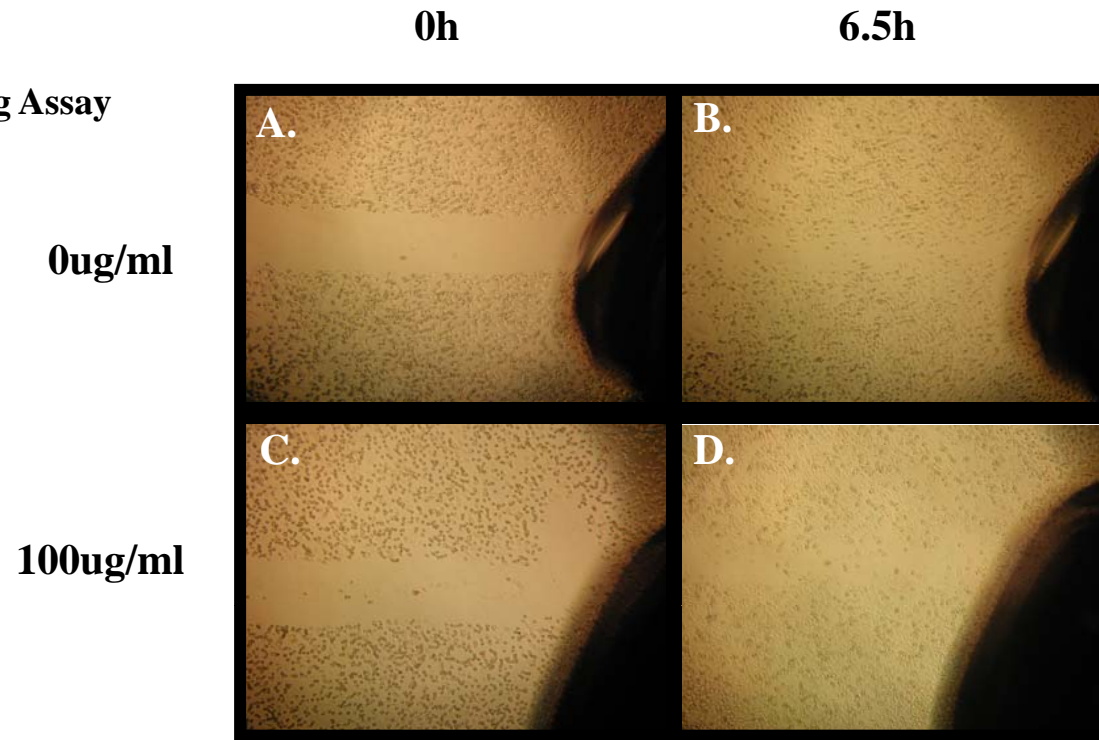
ATDC5_{parental}

■ Hpa-1
■ DRAQ5

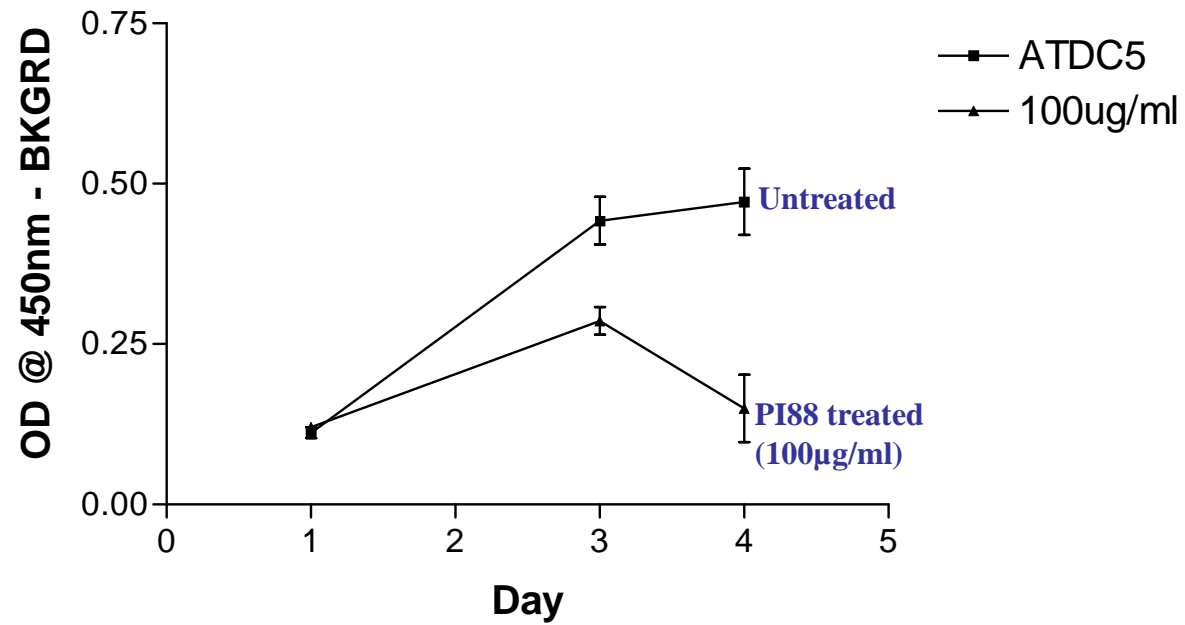
HH30_{overexp. clone}



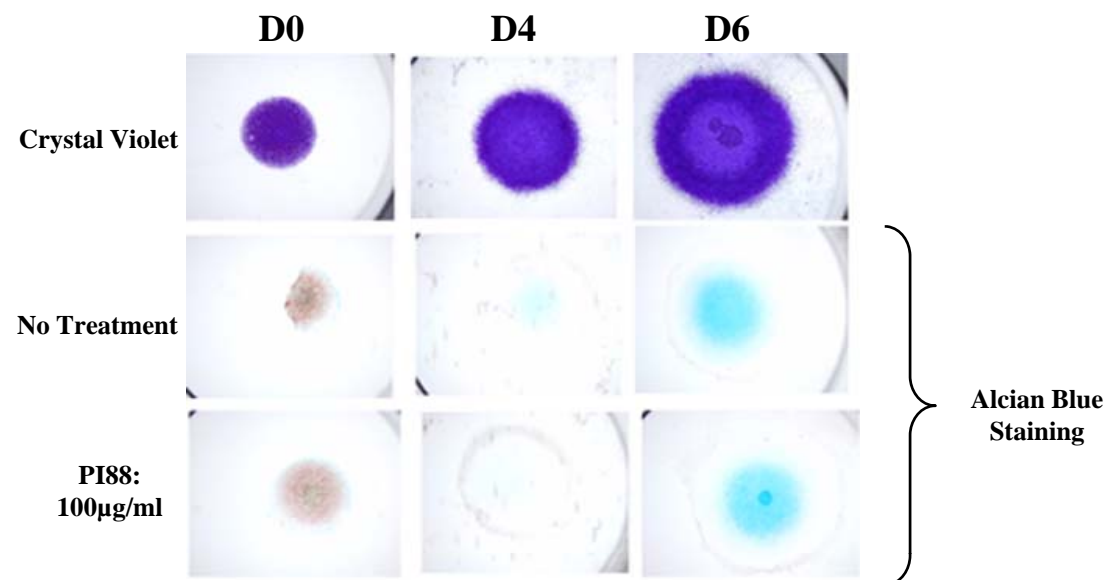
A. Wound Healing Assay



B. Proliferation Assay



A.



B.

