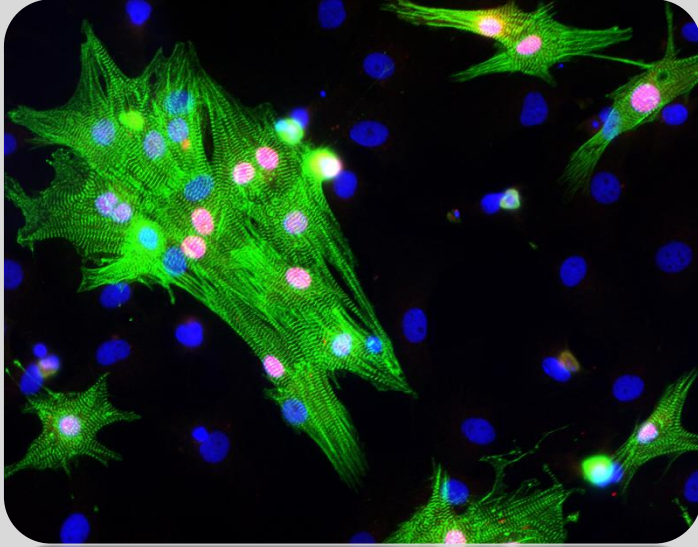


BMI Science Illustration Contest

First Edition – January 2017

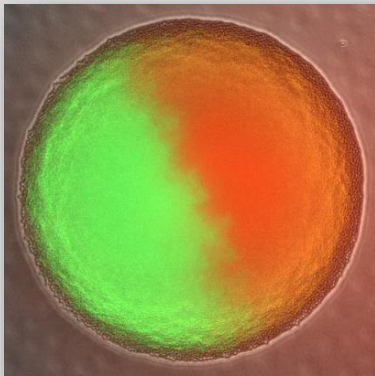


Winner – 1st prize

Hiba Komati

Making stronger cardiomyocytes with cardiac protein PEX1

Primary cultures of neonatal cardiomyocytes infected with adenovirus-HA-PEX1 construct were co-stained with anti-Sarcomeric alpha-Actinin to visualize the myofibrils (Green), anti-HA to detect the PEX1 protein (Red) and Hoechst to stain cell nuclei (Blue). Notice how cardiomyocytes overexpressing cardiac protein PEX1 (Red) have well organized striated sarcomeres, forming a syncytium of beating cells.

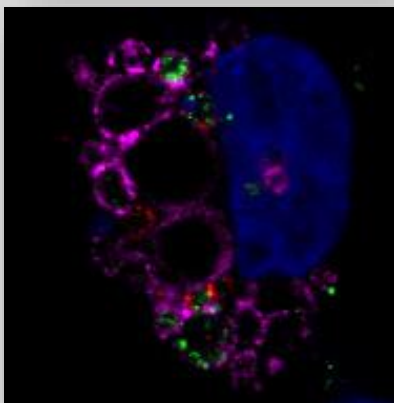


2nd prize

Sean Stephenson

Remembering Change

A budding yeast colony displays epigenetic memory of gene expression. During its first division after plating onto agar, a single yeast cell expressing an RFP reporter derepressed Cre recombinase located within transcriptionally silent heterochromatin. Cre then induced a permanent recombination event that swaps RFP for GFP, leading to a halfsectored colony.



3rd prize

Shirley Qiu

Ebola stuck in traffic

Ebola virus infection requires internalization and trafficking through host cells. Treatment of cells with a trafficking inhibitor causes of accumulation of virions (green) in early (red) and late (magenta) endosomes.

