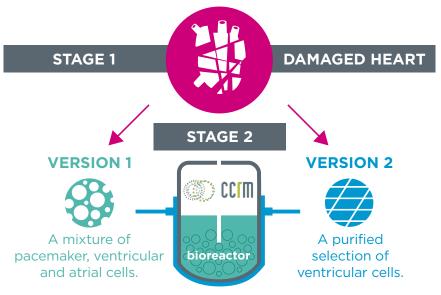
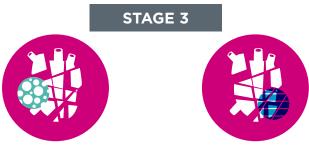
## **CHANGE IN HEART**

After a heart attack, scar tissue can severely limit heart function and lead to heart failure and other associated illnesses. In Toronto, a team led by Dr. Michael Laflamme at the University Health Network is testing how cultivated stem cells, injected into the damaged heart, can form new, healthy tissue.



Two different populations of heart cells, each grown from stem cells, are cultured in bioreactors.



The two different cell populations are transplanted into damaged hearts. Each transplant will grow new tissue and the two are compared.



Imaging technologies measure heart function to assess the success of the transplants and to determine which cell population is better.



The better of the two cell populations will be refined and tested, in preparation for clinical trials in humans.

This research project is funded in part through a Disease Team grant from the Ontario Institute for Regenerative Medicine.



