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Georgia Institute of Technology (USA)



EMORY
UNIVERSITY

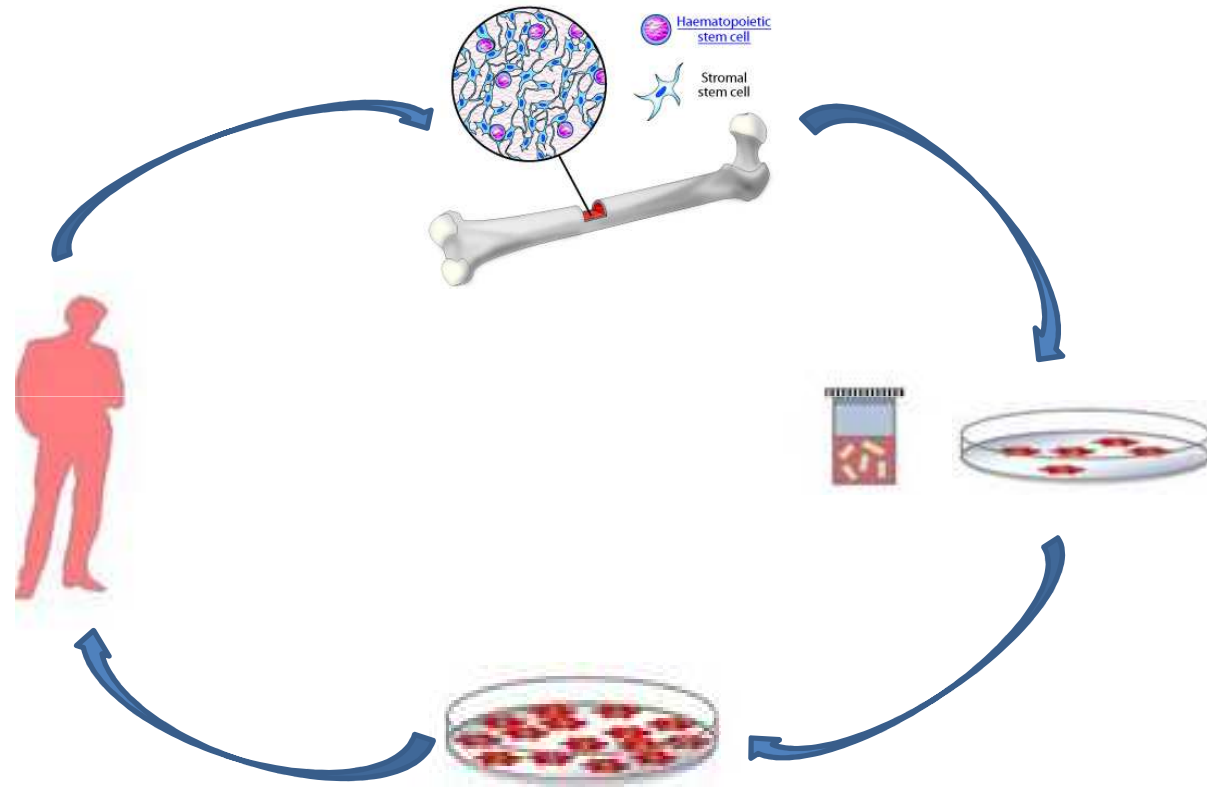
Emory University (USA), Department of
Medicine, Division of Cardiology



**Karolinska
Institutet**

Karolinska Institutet (Sweden), Department of
Medicine, Experimental Cardiovascular Research
Unit

Research background



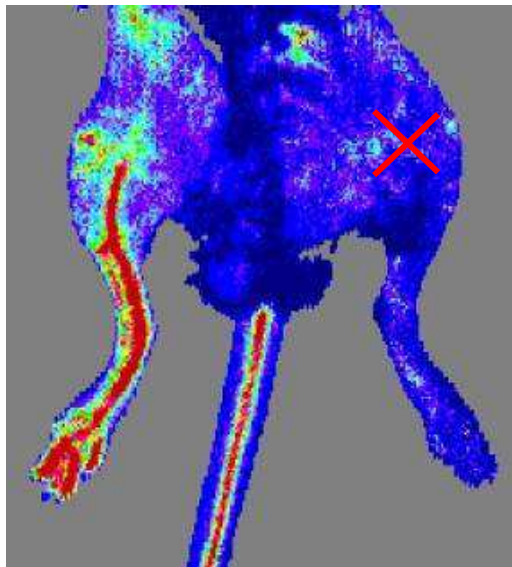
Regenerative medicine

Cell therapy

Gene therapy

Vascular disease/Vascularization

Preclinical model of
ischemia

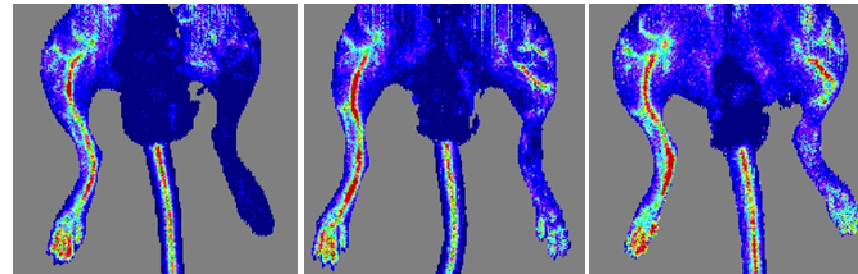


Endogenous revascularization

DAY 4

DAY 21

DAY 42

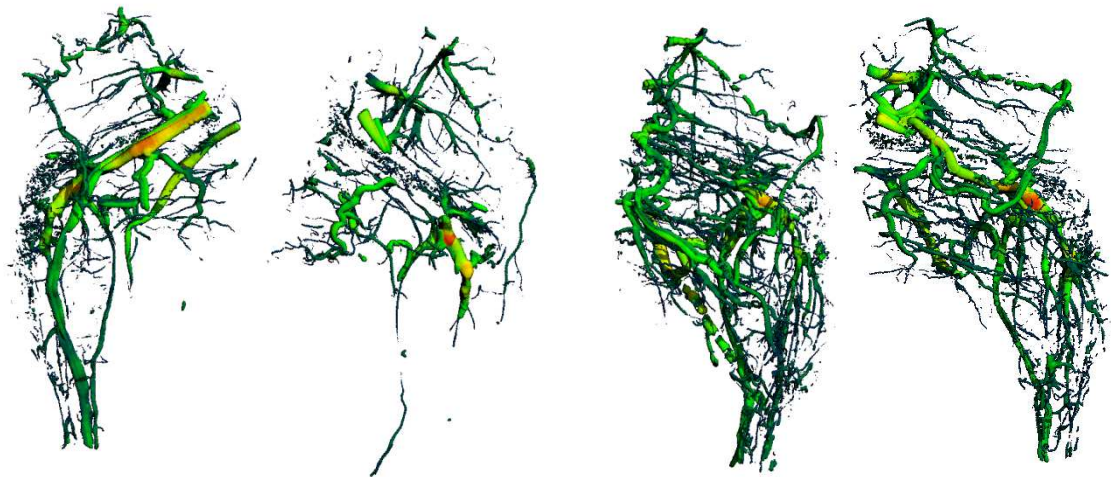


Control leg

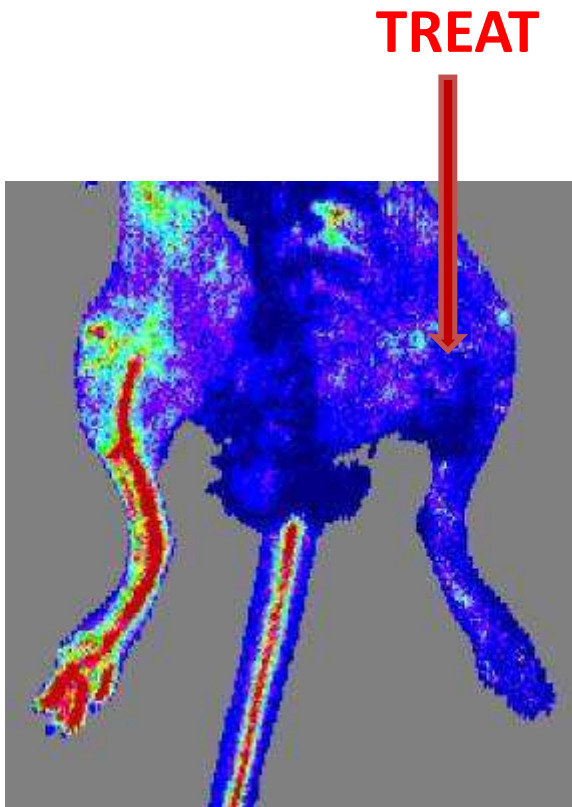
Day 0

Day 14

Day 40

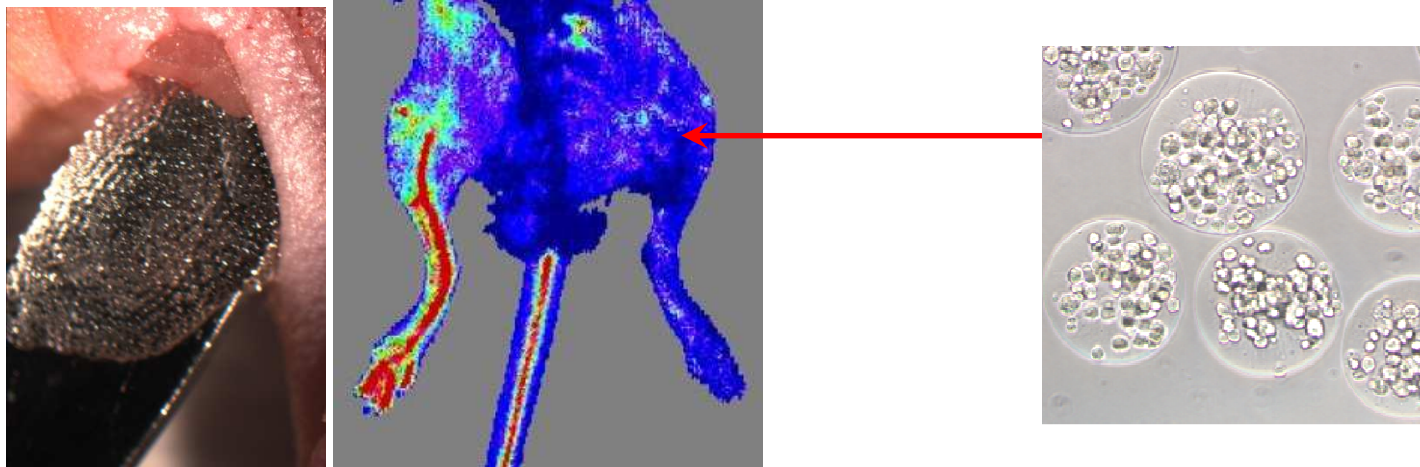
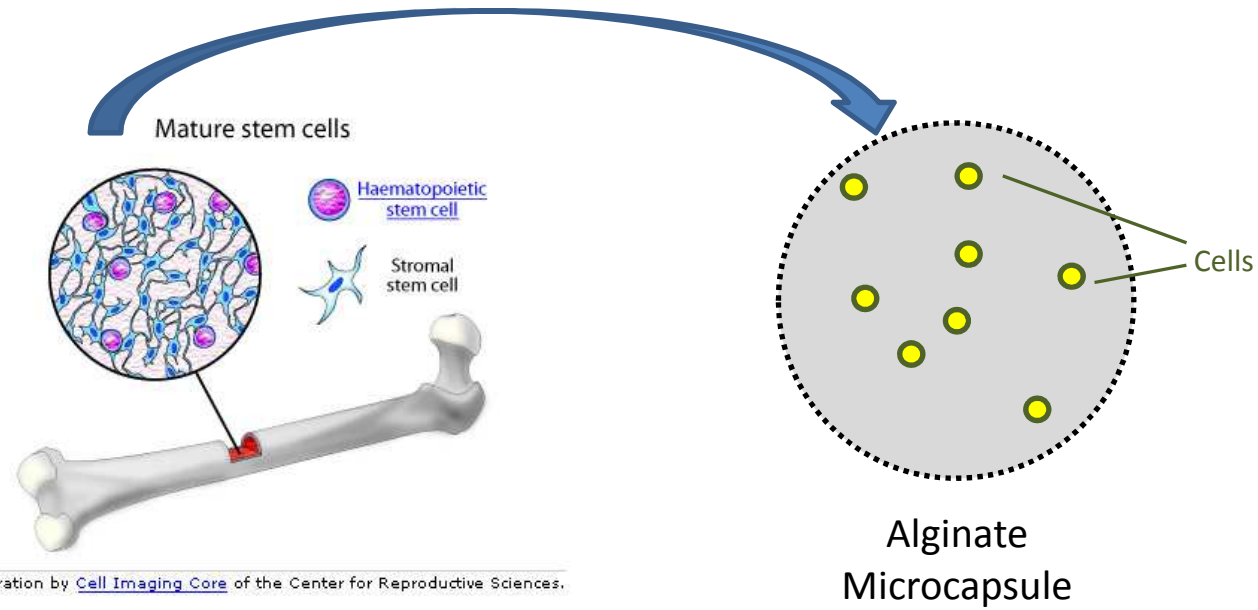


Regenerative therapies for vascular repair

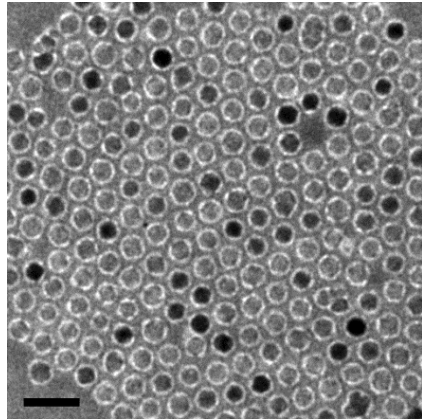


- Cell delivery vehicles?
- What cells to deliver?

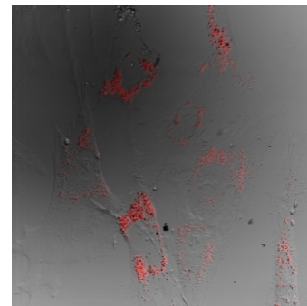
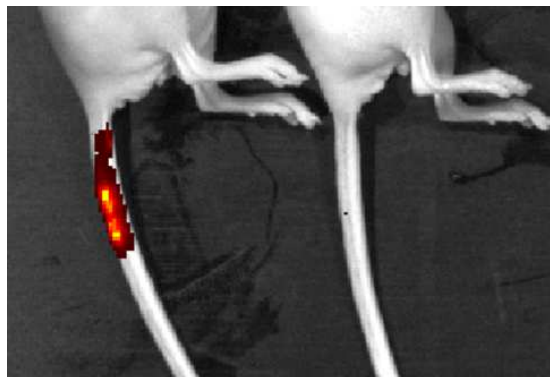
Retention: encapsulation



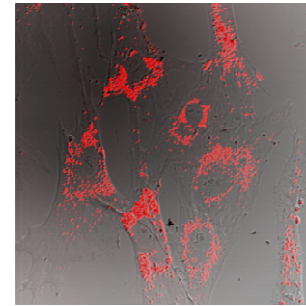
Targeting: SPIO labelling



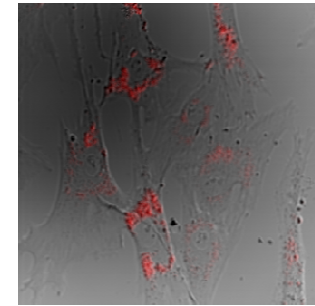
SPIOs
superparamagnetic
iron oxide
nanoparticles



BOTTOM

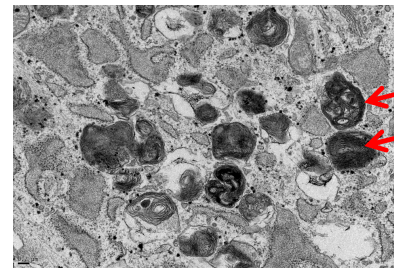


MIDDLE

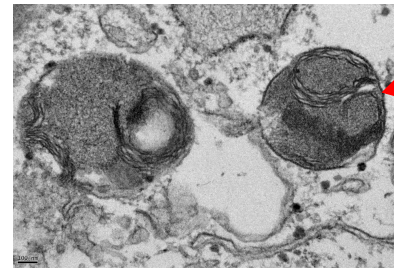
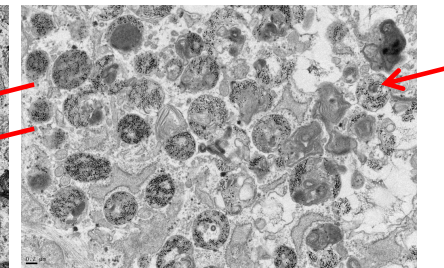


TOP

UN-LABELED



SPIO-LABELED



Research Interests

- Vascularization
 - desired vs. undesired-cancer
- Adult stem cells
 - Role in tissue regeneration
 - Role in cancer progression
- Cancer
 - CMV
 - EMT
- Design of therapies