



## Jordan Parker

McGonigle/Rosenbaum Award

Ph.D. Candidate, Comparative Biomedical Sciences  
Second Year ARCS Scholar

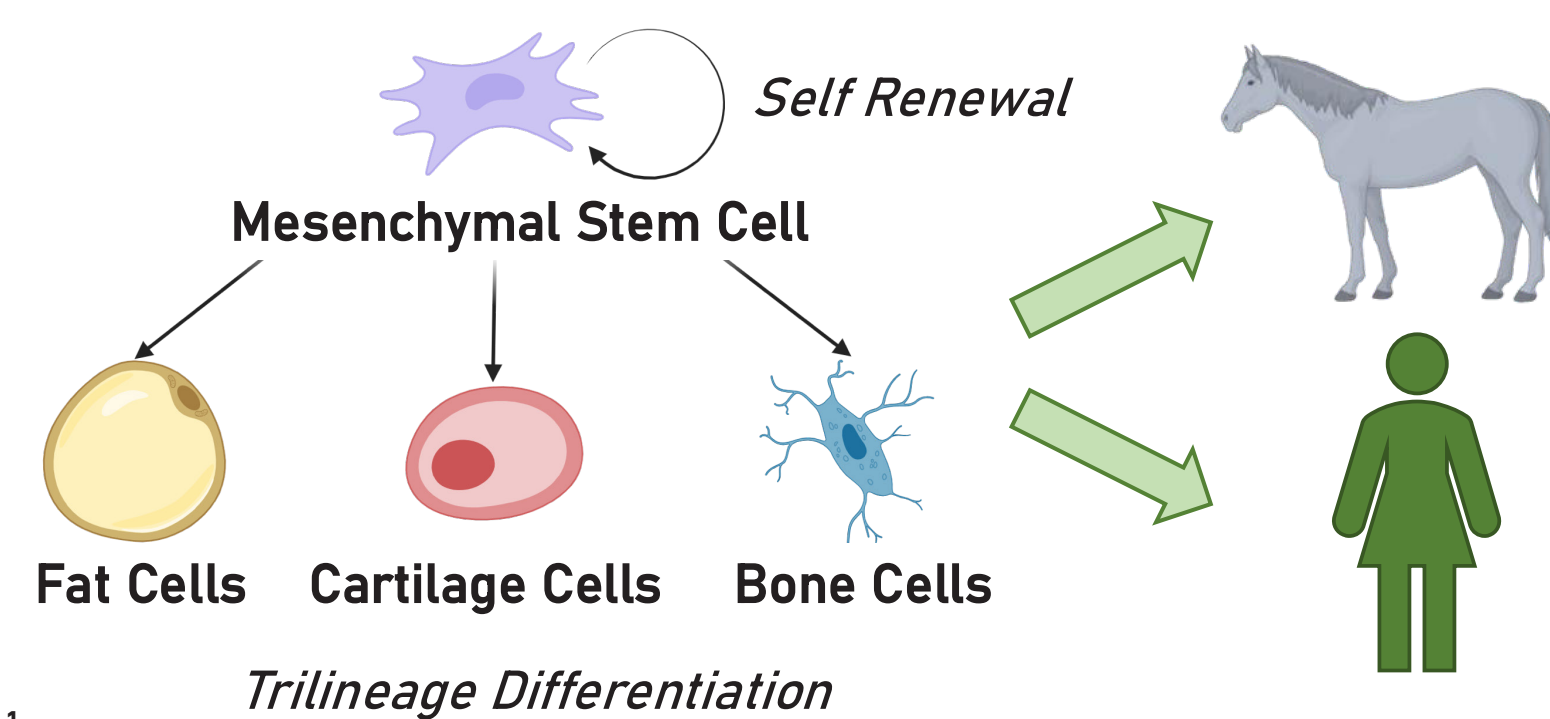


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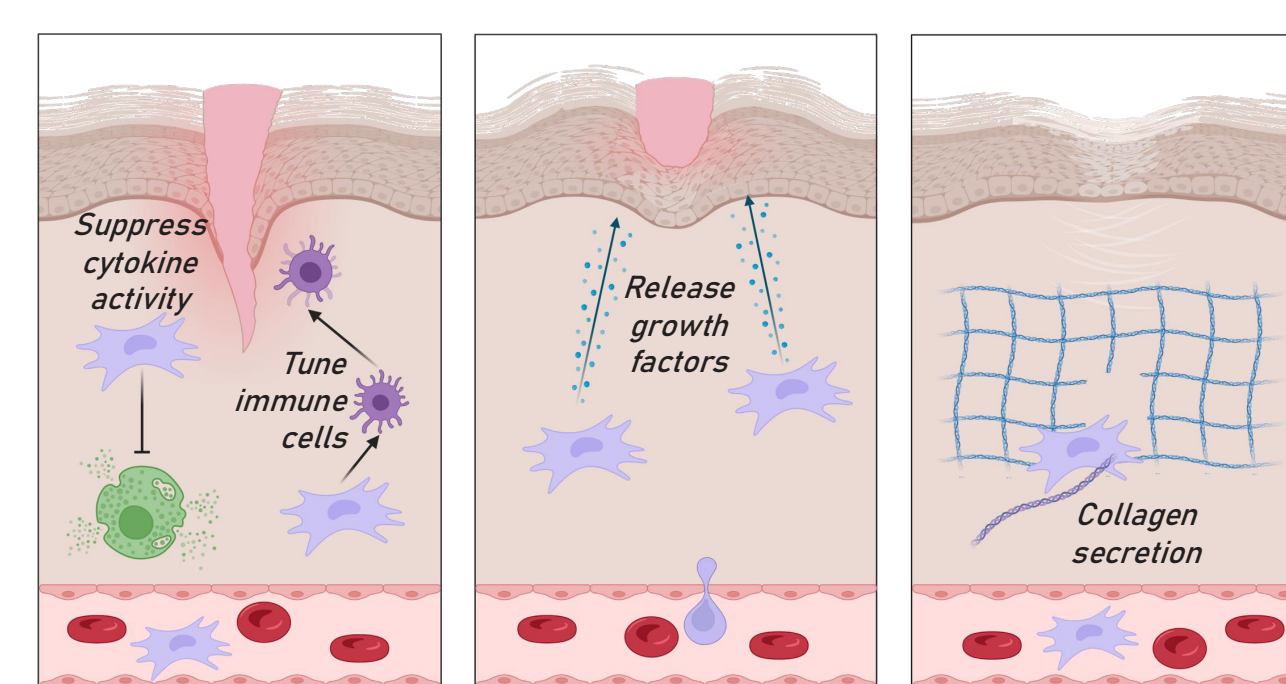
# Temporal Effects of Inflammatory Signaling on MSC Homing to an Equine Hoof Injury Model

Using ex vivo assays and in vivo models, I investigate how mesenchymal stem cells traffic to wounds with distinct inflammatory profiles to determine the optimal time to deliver cell therapies relative to initial injury.

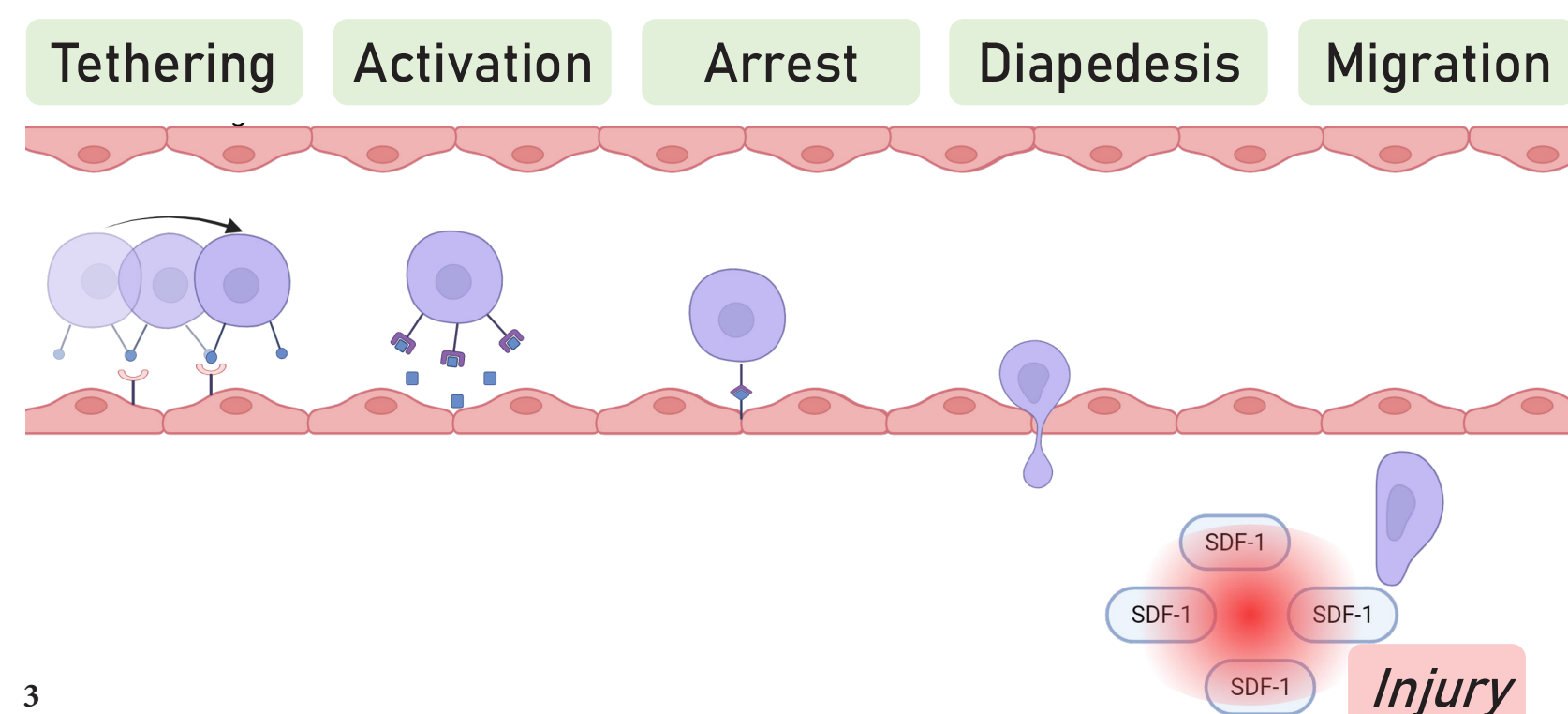
Mesenchymal Stem Cells (MSC) are multipotent cells found in all people + animals



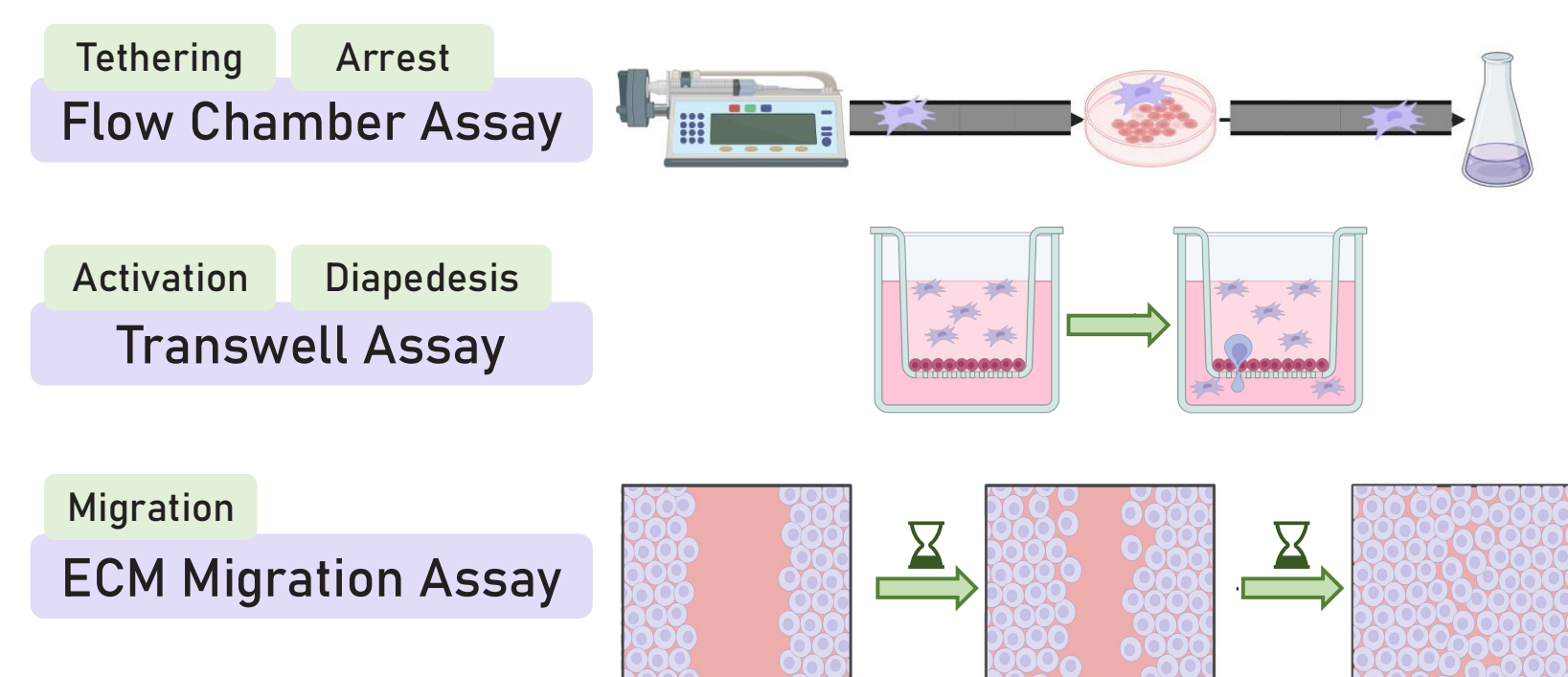
MSC support innate healing processes



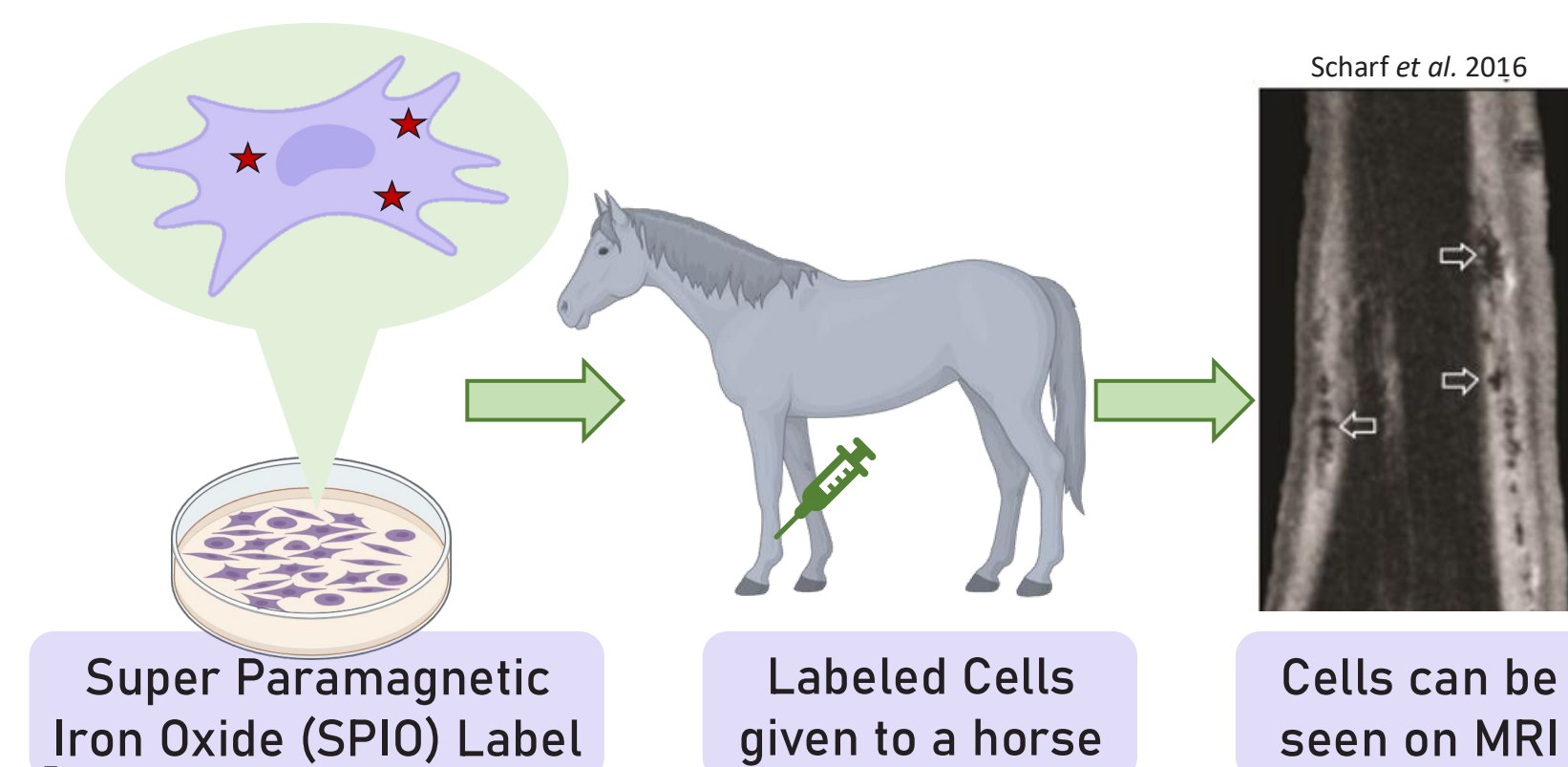
To support healing, MSC must 'home' to an injury



Laboratory methods to understand MSC Homing



MSC can be labeled and tracked in vivo

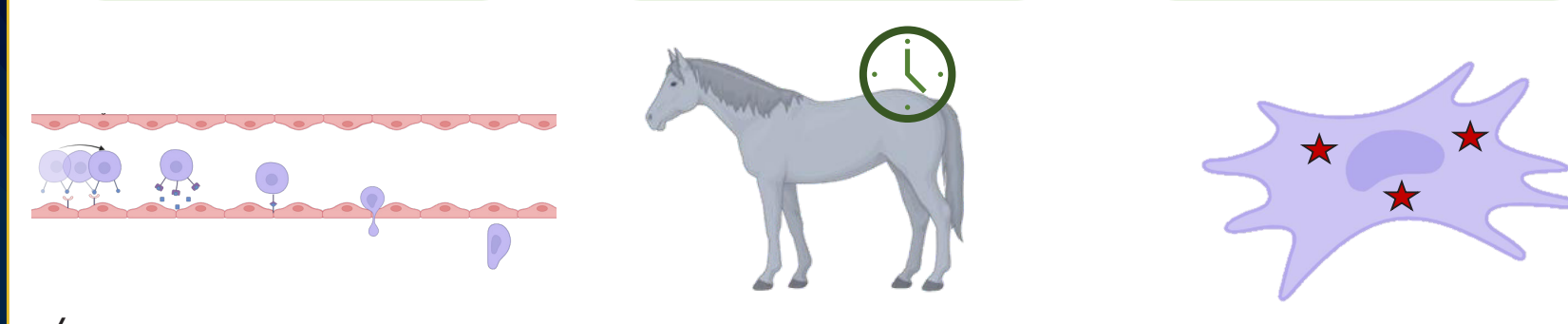


Tackling translational research questions about MSC Homing

What stages of the MSC homing cascade can be improved?

When, relative to initial injury, should MSC be administered?

How do in vivo tracking labels impact homing?



Scholar Awards Celebration

November 12, 2025



Igniting  
Innovation  
in Georgia