

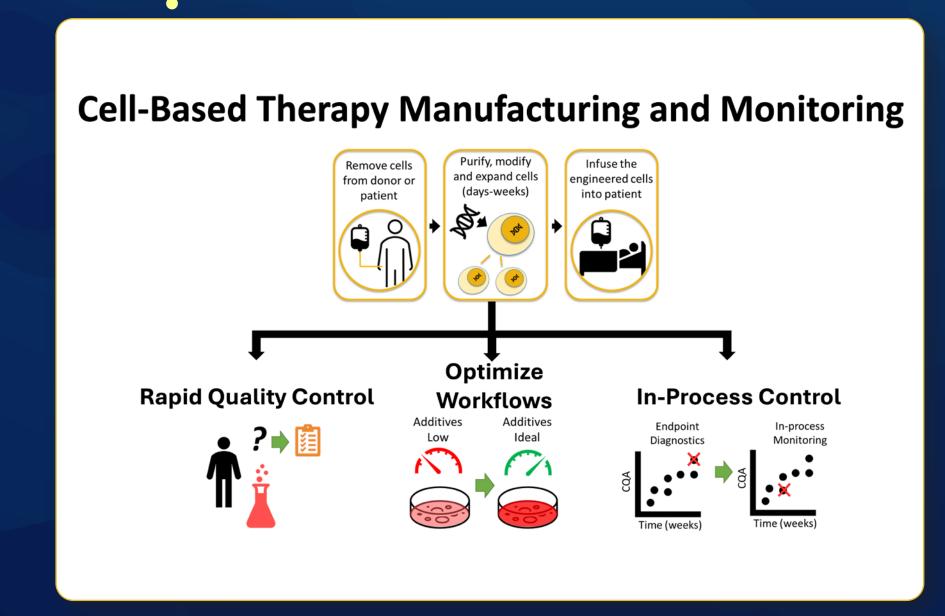
Gianna Slusher

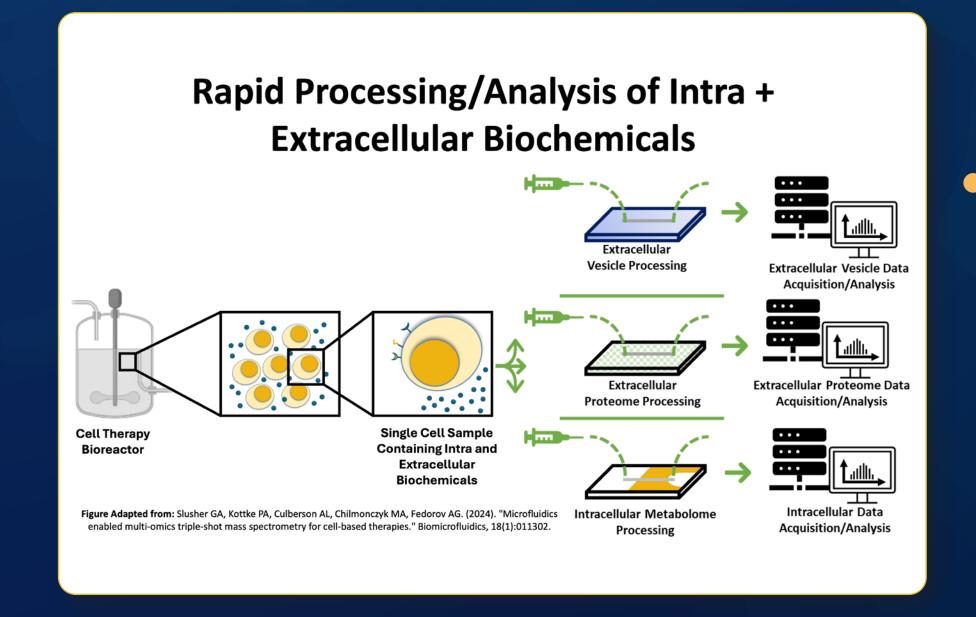
Swensson/ARCS Atlanta Award
Ph.D. Student, Bioengineering in Mechanical Engineering
First Year ARCS Scholar



Advancing Cell-Based Therapies with Rapid Intracellular Metabolite Analysis and Precise Exosome Isolation

The complexity of cell-based therapies highlight limitations of existing process analytical technologies. Our motivation and objective is to develop and apply a new process analytical technology to increase therapeutic potency, improve product yield, and reduce treatment cost.





Intracellular Metabolome Processing Device Waste from Reconditioning Waste from Reconditioning Waste from Reconditioning Figure Adapted from: Culberson AL, et al. (2021). "Sample-to-analysis platform for rapid intracellular mass spectrometry from small numbers of cells." Lab on a Chip, 21(23): 4696-4706.

