**Data Studio**

**MSOB x399**

**DATE:** January 16, 2019  
**TIME:** 1:30 - 2:50 pm  
**TITLE:** Extracellular vesicles in systemic juvenile idiopathic arthritis: clues to pathogenesis and biomarkers of disease  
**PRESENTER:** Justine Maller, Pediatric Rheumatology

**Summary:**

This research is focused on studying systemic juvenile idiopathic arthritis (sJIA), a pediatric autoinflammatory disease of unknown etiology. Diagnosis can often be challenging, and not all patients with sJIA respond optimally to biologic cytokine inhibitors, highlighting two of the many unmet needs in understanding and treating this disease. I am working with plasma samples and implementing high-resolution flow cytometry to characterize the differences in extracellular vesicle (EV) populations (based on surface marker expression) present in active relative to quiescent disease states as well as compared to healthy controls. The overall objective of this study aims to identify EV signatures that distinguish active and quiescent states of sJIA, which could reveal novel biomarkers with exciting diagnostic, prognostic, and therapeutic potential.