STRONG CHILDREN'S RESEARCH CENTER

***Summer 2018 Research Scholar** developed for the last decade, understanding of*
Mesenchymal stem cells (MSCs) are non-hematopoietic multipo
elements that comprise the bone marrow microenvironment (BM
niche and, importantly, are dysfunctional in MDS We hypothesize
are enriched for during aging and disease, therefore serving as a pote

Objective: To develop a novel flow-cytometry panel to characterize the immunophenotype of MSCs and progenitor cell populations in a murine model of MDS, and fur CD51, SCA1, CD271, CD146, and CD106 were used to define subpopulations of interest. Cells wer flow-cytometry. Biparametric analysis and gating strategies of p characterize subpopulations of MSCs.

Results: Murine MSCs are characterized by SCA1 and CD51 expression within the non-hematopoietic