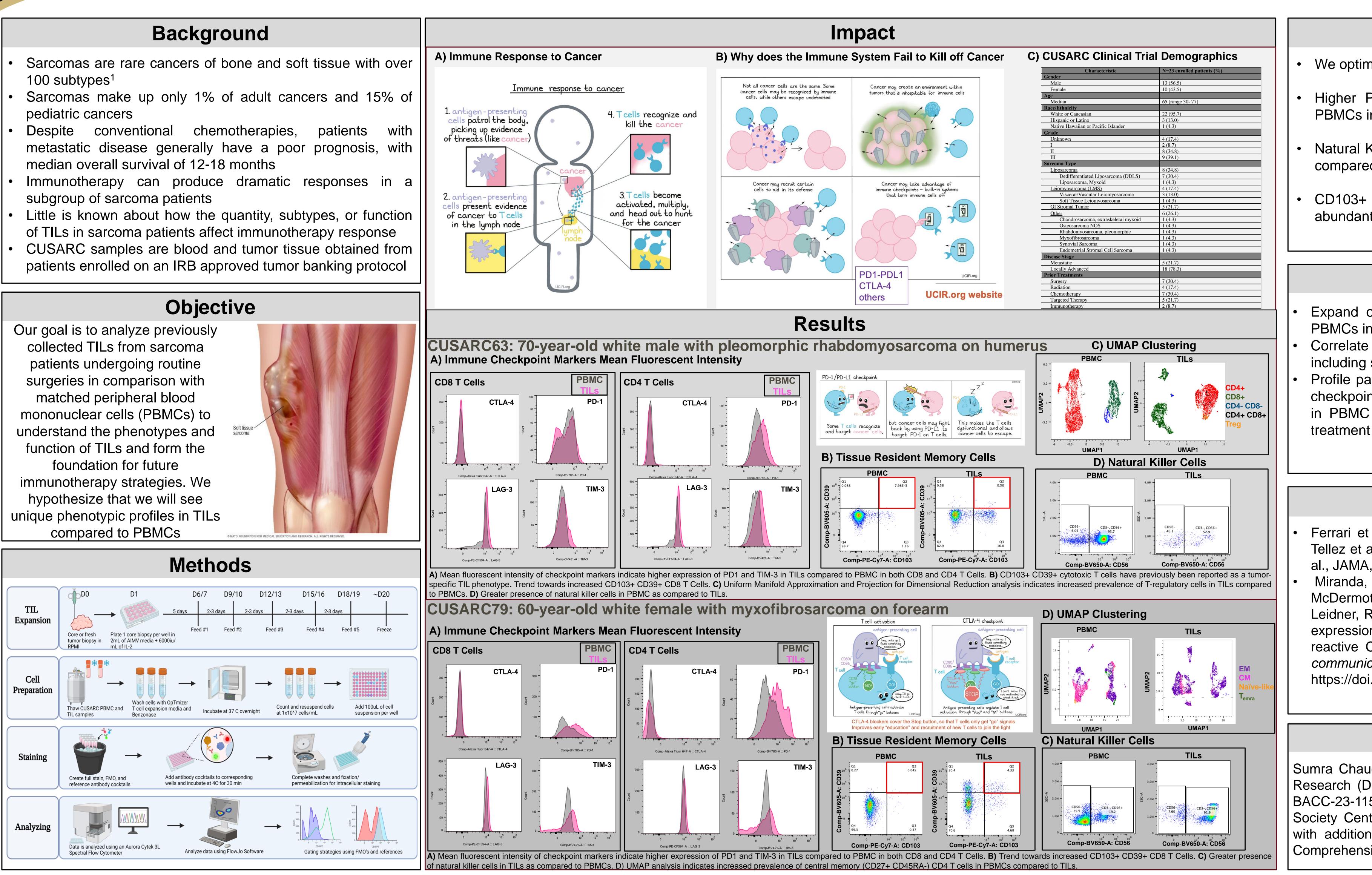
Immune Profiling of Tumor-Infiltrating Lymphocytes in Patients With Soft Tissue Sarcomas





<u>Sumra Chaudhry¹, Pearl Wilcock¹, Qierra Brockman^{1,2}, Eduardo Davila^{1,2}, Breelyn Wilky^{1,2}</u>

1. University of Colorado Anschutz Medical Campus, Department of Medicine, Division of Medical Oncology 2. University of Colorado Cancer Center



Conclusion

We optimized flow cytometry panel to profile T cells

Higher PD-1 and TIM-3 expression in TILs vs. PBMCs in both CD8 and CD4 T cells

Natural Killer cell abundance is variable in PBMCs compared to TILs among patients

CD103+ CD39+ Cytotoxic T cells are more abundant in TILs

Future Directions

Expand our pilot methodology to profile TILs and PBMCs in 26 sarcoma patients

Correlate flow cytometry data with clinical data including subtypes, treatments, and overall survival Profile patients who have received doxorubicin plus checkpoint inhibitors to compare immune infiltration in PBMC vs. TILs and correlate with response to

References

Ferrari et al, Pediatr Blood Cancer, 2011. 2. Moreno Tellez et al., Surg. Oncol. Clin. N. Am., 2022. 3. Tap et al., JAMA, 2020.

Miranda, N. F., Goodall, C. P., Blair, T. C., Fox, B. A., McDermott, J. E., Chang, S. C., Grunkemeier, G., Leidner, R., Bell, R. B., & Weinberg, A. D. (2018). Coexpression of CD39 and CD103 identifies tumorreactive CD8 T cells in human solid tumors. Nature communications, 2724. *9*(1),

https://doi.org/10.1038/s41467-018-05072-0

Acknowledgments

Sumra Chaudhry was supported by a Diversity in Cancer Research (DICR) Post Baccalaureate Grant DICR POST-BACC-23-1158368-01-DPBACC from the American Cancer Society Center for Diversity in Cancer Research Training with additional support from the University of Colorado Comprehensive Cancer Center (grant # P30CA046934).