



Julea Vlassakis, PhD

Assistant Professor

Bioengineering

*Measuring Cytoskeletal Protein Complex Drug Response Variation
by Single-Cell Fractionation*

Dr. Julea Vlassakis earned her Ph.D. in bioengineering and completed a postdoc in the Herr Lab at UC Berkeley. Her research investigated separation and thermodynamic partitioning phenomena fundamentals to design integrated single-cell protein assays. She joined the Department of Bioengineering at Rice University as an Assistant Professor in July 2021. She directs the Microtechnologies Laboratory for Pediatric Oncology with the goal of advancing targeted and precision therapies for pediatric cancers with a focus on Ewing sarcoma. To study the biochemistry and biophysics of fusion oncoprotein interactions in proliferative and metastatic subpopulations, her group will develop single-molecule and single-cell technologies at the micro and nano scales of cancer biology. Her research has garnered several honors including an NSF Graduate Research Fellowship, Burroughs Wellcome Fund Career Award at the Scientific Interface, and the CPRIT Scholar Award.