



**Showcasing research from Professor Xiaoyun Ding's laboratory, Mechanical Engineering and Biomedical Engineering, University of Colorado Boulder, United States.**

Surface acoustic wave hemolysis assay for evaluating stored red blood cells

We developed a Surface Acoustic Wave Hemolysis Assay (SAW-HA) that utilizes acoustic effects and acoustic-induced heating to evaluate stored red blood cell quality. Combined with omics technologies, SAW-HA distinguished donor-specific storage behaviors, identifying membrane instability associated with elevated BMI, deficient tryptophan metabolism, and disrupted redox homeostasis.

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**As featured in:**



See Angelo D'Alessandro, Xiaoyun Ding *et al.*, *Lab Chip*, 2026, **26**, 40.