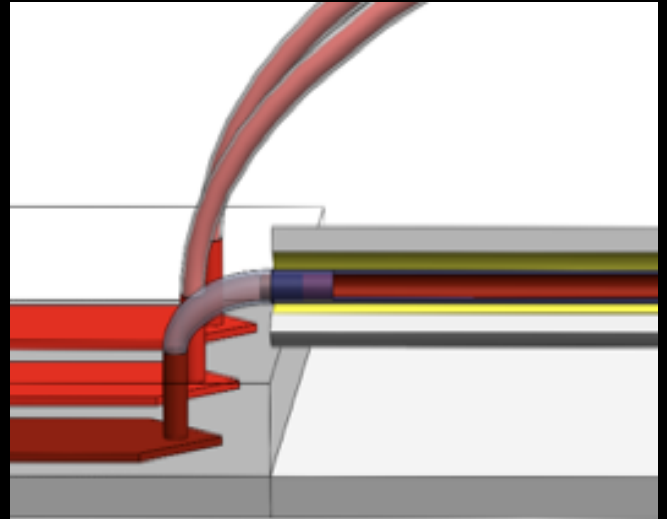
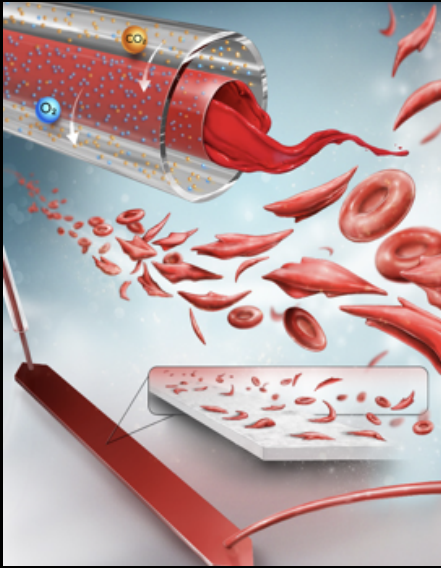


# Hypoxia Assay



**About** Blood cell analysis under hypoxia. Precise gas control throughout microfluidic system.

RBC sickling/unsickling	Hypoxic cell adhesion	Hypoxic microvascular occlusion	Hypoxic whole blood rheology
RBC sickling and unsickling is dynamically monitored in real time under flow	Integrated with Adhesion BioChip and Endothelium-on-a-chip	Integrated with OcclusionChip	Integrated with RheologyChip

## Typical Uses

- Drug Development
- Personalized Medicine
- Clinical Research

## Highlights

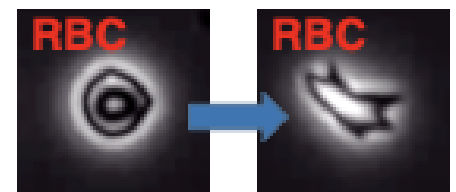
### Targeted Therapies

Efficacy of emerging targeted therapies in SCD can be assessed under hypoxia

### Curative Therapies

NHLBI-supported multi-site study to assess RBC mediated microcapillary occlusions before and after a gene-based therapy for curative intent <sup>1</sup>

Normoxia Hypoxia



Based on publications:  
Microcirculation, 2018; BJH,  
2020; AJH, 2020

**BioChip Labs**

"Disrupting disease through better diagnostics"<sup>1</sup>

1. <https://curesickle.org>

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