

Hypoxia Assay

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



About

RBC SICKLING/UNSICKLING

RBC sickling and unsickling is dynamically monitored in real time under flow

HYPOXIC CELL ADHESION

Integrated with Adhesion BioChip and Endotheliumon-a-chip

HYPOXIC MICROVASCULAR OCCLUSION

Integrated with OcclusionChip

HYPOXIC WHOLE BLOOD RHEOLOGY

Integrated with RheologyChip

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 (1)

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

1. <https://curesickle.org>

Typical Uses

- ✓ PERSONALIZED MEDICINE
- ✓ CLINICAL RESEARCH
- ✓ DRUG DEVELOPMENT

Normoxia & Hypoxia

