

Rheology Chip

Assessing whole blood viscosity and Adhesion & microvascular flow conditions

About

ADHESION & VISCOSITY

The RheologyChip can be functionalized with adhesion proteins for simultaneous adhesion & viscosity measurements

WHOLE BLOOD FLOW PROPERTIES

Combined effect of adhesion and RBC deformability can be measured via analyzing blood flow

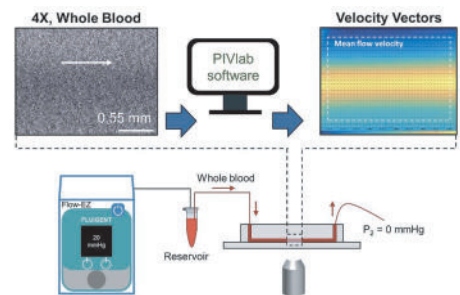
HYPOXIA

The RheologyChip can be integrated with our micro- gas exchanger (hypoxia assay) to measure whole blood viscosity in hypoxia

Typical Uses

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

Single Cell Analysis



Highlights

TARGETED THERAPIES

Drugs that target whole blood rheology

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 publication: AJH, 2020

1. <https://curesickle.org>