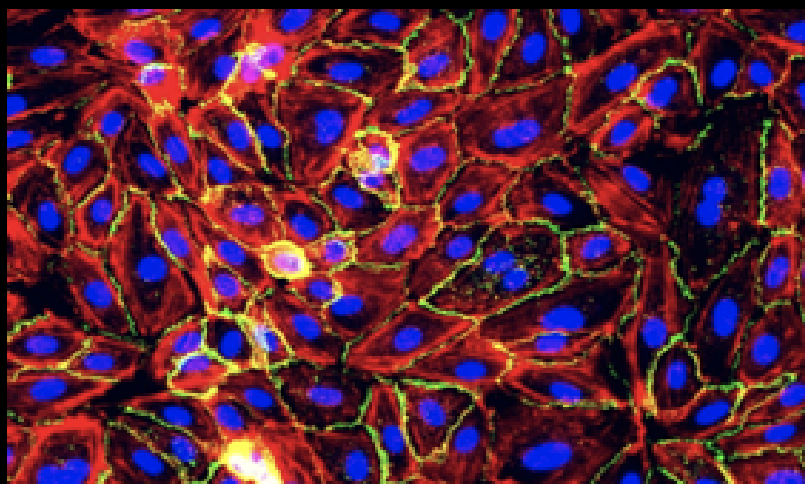
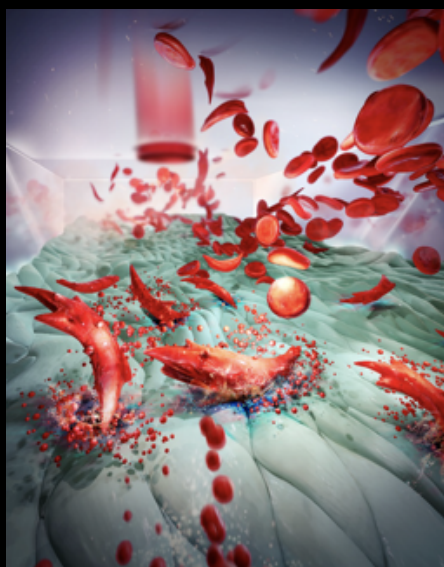


Endothelium-on-a-chip



About

assessing blood cell adhesion to cultured endothelial cells

Mimicking in vivo conditions

Provide more physiologically relevant environment compared to protein functionalized assays

Endothelial cell type and source

Any type of primary human endothelial cells can be cultured under physiologic flow and activated via disease-specific pro-inflammatory agents

Patient specific activation

Cultured endothelial cells can be activated via patients' own blood and/or blood products

Sample

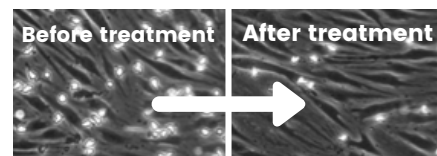
Whole blood or isolated RBCs, WBCs, and platelets

Typical Uses

- Clinical Assay
- Personalized Medicine
- Research
- Drug Development

Treatment Response

Assessment of anti-adhesion therapy



Highlights

Targeted Therapies

Drugs that target RBC sickling/deformability (e.g., Voxelotor) in SCD

Curative Therapies

NHLBI-supported multi-site study to assess RBC mediated microcapillary occlusions before and after a gene-based therapy for curative intent¹

Relevant Literature
AJH, 2018
BJH, 2020

1. <https://curesickle.org>



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"Disrupting disease through better diagnostics"¹

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