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In microvascular mechanics, the interplay of rheology, anatomy, and cellular and organ function has only just begun to be addressed. To understand the operational behavior of microcirculation, there is a need to integrate studies at the cellular or molecuÂ- lar level with a quantitative, biomechanical description of the circulatory system.

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Microvascular rheology and hemodynamics HH Lipowsky 7 Figure 1. Arteriovenous distribution of intravascular pressure and red cell velocity from arterioles to venules

#### Microvascular Rheology and Hemodynamics

Content. This publication primarily focuses on the macro- and micro- rheological behavior of blood and its formed elements, on interactions between the formed elements and blood vessel walls, and on the microvascular aspects of hemodynamics.

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1. Course Information Hemodynamics Medical Biophysics 4535/9510, Biomedical Engineering 9535 Fall Term 2015 Fundamentals of steady and pulsatile blood flow in tubes and blood vessels.

#### 1. Course Information Hemodynamics Medical Biophysics 4535

Given the importance of hemodynamics on intramural stresses and wall properties on the character of the blood flow, it is remarkable that most research in vascular biomechanics has been pursued separately by those in biofluid mechanics and biosolid mechanics.

## **Open Problems in Computational Vascular Biomechanics**

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