

2nd International Conference on

Clinical Research Cardiology, Ophthalmology & Dermatology

The vascular endothelium lining the blood vessels functions as a barrier between the blood 1 and interstitial compartments that is essential for the maintenance of tissue homeostasis and

normal organ functions. Increased vascular permeability in response to inflammatory stimuli

results in extravasation of blood components and tissue edema. Compromised barrier function

of the endothelium during inflammation is accompanied by intercellular gap formation, which causes an increase in paracellular permeability. Recently, evidence has emerged to support

a role for the caveolae-mediated transcellular pathway in inflammation-induced vascular

hyperpermeability. Caveolin-1, an indispensable protein for both the structure and function

of caveolae, has been shown to play a crucial role in the regulation of pulmonary vascular

5-7 March 2012 Omaha Marriott, USA

Transcellular and paracellular mechanisms of vascular hyperpermeability during inflammation

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Biography

Guochang Hu is an Assistant Professor at the Departments of Anesthesiology and Pharmacology, University of Illinois College of Medicine. He obtained

hyperpermeability via transcellular and paracellular pathways.

his PhD from China Medical University and the MD from Xuzhou Medical College. He is currently serving as an editorial board and peer-review member of 13 journals. He has published more than 30 papers and 10 book chapters. As an editor-in-chief, he has published two books in the areas of pharmacology and medicine. He has been serving as a member of AHA Vascular Wall Biology Basic Research Study Section since 2010. His research is currently supported by NIH R01.