LETTERS TO THE EDITOR

Vascular Remodeling Arterioles: Plasticity of the Vessel Wall
Robert M.K. W. Lee, Shaun L. Sandow, and Jo G. R. DeMey

The Plastic Nature of the Vascular Wall: Reply to Lee, Sandow, and DeMey
Luis A. Martinez-Lemus, Michael A. Hill, and Gerald A. Meininger

REVIEWs

Physiological Signaling Specificity by Protein Tyrosine Phosphatases
Matthew Soulsby and Anton M. Bennett
Review focusing on the concept that PTPs exhibit remarkable signaling specificity through intrinsic differences between their PTP domains and through various modes of regulation that endow them with the capacity to promote unique physiological responses.

Oligodendrocyte Development and Myelin Biogenesis: Parsing Out the Roles of Glycosphingolipids
Nicole Jackman, Akihiro Ishii, and Rashmi Bansal
Review of the role of glycosphingolipids in oligodendrocyte differentiation and myelin biogenesis.

Role of Extracellular Adenosine in Acute Lung Injury
Tobias Eckle, Michael Koeppen, and Holger K. Eltzschig
Adenosine represents an endogenous signaling molecule that dampens pulmonary edema and promotes resolution of lung inflammation during acute lung injury.

Potassium Ion Movement in the Inner Ear: Insights from Genetic Disease and Mouse Models
Anselm A. Zdebik, Philine Wangemann, and Thomas J. Jentsch
The stria generates the endocochlear potential and high potassium endolymphatic fluid to allow passive potassium entry into hair cells. Genetic disease and mouse models helped to unravel its transport mechanisms.

Editorial
Vascular Remodeling: In Situ vs. Ex Vivo