This review gives a brief overview of the principal mechanisms of nonneuronal tissue and organ injury and their contribution to alcohol-associated comorbid conditions. This review highlights the importance of melanocortin 4 receptors in regulating energy balance and sympathetic activity, and its major role in linking obesity with sympathetic overactivity and hypertension.

Beyond the Genome: Epigenetic Mechanisms in Lung Remodeling

James S. Hagood

This review focuses on epigenetic mechanisms in lung parenchymal remodeling.

Ion/Water Channels for Embryo Implantation Barrier

Xin-Mei Liu, Dan Zhang, Ting-Ting Wang, Jian-Zhong Sheng, and He-Feng Huang

This review discusses new insights in recent years about the contribution of ion/water channels to the embryo implantation barrier construction during early pregnancy.

The Brain Melanocortin System, Sympathetic Control, and Obesity Hypertension

Alexandre A. da Silva, Jussara M. do Carmo, Zhen Wang, and John E. Hall

This review highlights the importance of melanocortin 4 receptors in regulating energy balance and sympathetic activity, and its major role in linking obesity with sympathetic overactivity and hypertension.

Alcohol Abuse: Critical Pathophysiological Processes and Contribution to Disease Burden

Patricia E. Molina, Jason D. Gardner, Flavia M. Souza-Smith, and Annie M. Whitaker

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