REVIEWS

From Pluripotency to Distinct Cardiomyocyte Subtypes
Robert David and Wolfgang-Michael Franz
This review discusses recent progress in the cardiovascular stem cell field.

Cardiac Actions of Protein Kinase C Isoforms
Susan F. Steinberg
This review focuses on newer concepts regarding PKC isoform-specific activation mechanisms and actions that have implications for the development of PKC-targeted therapeutics.

Interventional and Intrinsic Airway Homeostasis and Repair
Colin Butler, Martin Birchall, and Adam Giangreco
This review highlights recent concepts and advances in research to counteract age- and disease-associated loss of human lung function.

Hedgehog Signaling and Maintenance of Homeostasis in the Intestinal Epithelium
Nikè V. J. A. Bülter, Sanne L. Rosekrans, Jessica Westerlund, and Gijs R. van den Brink
This review discusses recent evidence that Indian Hedgehog may be one of the key epithelial signals that indicates epithelial integrity to the underlying mesenchyme.

Orphan Nuclear Receptors and the Regulation of Nutrient Metabolism: Understanding Obesity
Michael A. Pearen and George E. O. Muscat
This review discusses key studies that have implicated the orphan nuclear receptors as organ-specific regulators of metabolism and mediators of adverse pathophysiological effects.

Striatal Mechanisms Underlying Movement, Reinforcement, and Punishment
Alexxai V. Kravitz and Anatol C. Kreitzer
In addition to their well known roles in motor function, direct and indirect pathway striatal neurons may exert opposing control over reinforcement and reward.