Concept

Cell Biology

Actin-Based Adhesion Modules Mediate Cell Interactions with the Extracellular Matrix and Neighboring Cells
Alexia I. Bachir, Alan Rick Horwitz, W. James Nelson, and Julie M. Bianchini

Perspectives

Developmental Biology

Sperm Sensory Signaling
Dagmar Wachten, Jan F. Jikeli, and U. Benjamin Kaupp

TGF-β Family Signaling in Embryonic and Somatic Stem-Cell Renewal and Differentiation
Alan C. Mullen and Jeffrey L. Wrana

Immunology

Mechanisms of Cell Polarity–Controlled Epithelial Homeostasis and Immunity in the Intestine
Leon J. Klunder, Klaas Nico Faber, Gerard Dijkstra, and Sven C.D. van IJzendoorn

Molecular Pathology

Pathology of Neurodegenerative Diseases
Brittany N. Dugger and Dennis W. Dickson

Cilia and Obesity
Christian Vaisse, Jeremy F. Reiter, and Nicolas F. Berbari

Technique

Plant Biology

Synthetic Botany
Christian R. Boehm, Bernardo Pollak, Nuri Purswani, Nicola Patron, and Jim Haseloff