



Gene Correction Using CRISPR/Cas9 in Adult Stem Cells

SCHWANK ET AL., 653

Correction of a disease-causing CFTR mutation in cultured intestinal stem cells from cystic fibrosis patients is accomplished using the CRISPR/Cas9 system. (Top image.)

Correcting Genetic Disease in Mice with CRISPR/Cas9

WU ET AL., 659

Genetic rescue of a dominant cataract-causing mutation in mice is demonstrated using injection of CRISPR-Cas9 and a guide RNA into zygotes.

Recipe for Human Naive ESCs: 3i Plus LIF

CHAN ET AL., 663

A cocktail of three small molecules plus LIF generates a stable human embryonic stem cell state that closely resembles preimplantation blastocyst.

Pluripotency Gene mRNA Nuclear Export

WANG ET AL., 676

Preferential interaction of pluripotency network component mRNAs with the THO complex mediates their export from the nucleus and is important for establishment and maintenance of the pluripotent state. (Bottom image.)

Induced-Aging of iPSCs for Modeling Late Onset Disease

MILLER ET AL., 691

Induction of aging-related features in human iPSC-derived cells through expression of progerin addresses one of the major limitations of this approach and enables analysis of late-onset phenotypes in conditions such as Parkinson's disease. Preview by Brennand.

Noncanonical Activin Signaling in Lineage Specification

MATULKA ET AL., 706

A noncanonical Activin pathway promotes mesendodermal specification of mouse and human embryonic stem cells.

Differential Requirements for Wnt Signaling in Skin and Hair Follicle Stem Cells

CHOI ET AL., 720

β -catenin signaling is required within hair follicle stem cells for their proliferation, but not their survival, and plays an unexpected proproliferative role in normal interfollicular epidermis and nonhairly epithelia. Preview by Morgan.

Fetal Intestinal Progenitors: A Source for Colon Regeneration?

FORDHAM ET AL., 734

Fetal intestine contains expandable immature progenitors, which can also be derived from human pluripotent stem cells and can contribute to regeneration of injured colon following transplantation. Preview by Miyoshi and Stappenbeck.

Internal Clocks as Sunblock

JANICH ET AL., 745

The circadian clock regulates human epidermal stem cell function, connecting stem cell activity to relevant daily changes in the external environment.

Systems View of Transcriptional Programs in Hematopoiesis

MAY ET AL., 754

A systems-level resource of the GATA-PU.1 axis provides insight into the dynamics of transcriptional programs during hematopoietic lineage commitment and differentiation.

