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Developmental roadmap to create human cell-types from pluripotent stem cells

We have mapped the branching lineage decisions through which human pluripotent stem cells (hPSCs) differentiate into 25+ different cell-types. At each lineage decision, by activating signals that induce a desired cell-type while repressing signals that induce an alternative fate, we can coerce hPSCs to differentiate into a desired cell-type with high speed and efficiency. This seminar will feature recent vignettes of how we applied this strategy to tackle various developmental questions, including the diversification of forebrain/midbrain vs. hindbrain neurons and the segregation of artery vs. vein cells from hPSCs.

Upcoming speakers

Tue, October 15 2024 – Edouard Hanezo, Institute of Science and Technology Austria

Tue, November 19 2024 – Trudy Oliver, Duke University

A seminar series inviting international researchers, organized by EMBL Barcelona postdocs, open to all

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