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iPSZÜRICH

A Lecture Series Focused on Induced Pluripotent Stem Cells

Inserm
La science pour la santé
From science to health

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RETINAL ORGANOIDS FROM PLURIPOTENT STEM CELLS: FROM DEVELOPMENT TO DISEASE

Inherited and acquired degenerative diseases of the retina are a significant cause of incurable vision loss worldwide. Understanding and controlling these neurodegenerative retinal diseases to restore visual lost are major challenges. The advent of induced pluripotent stem (iPS) cells, has provided a powerful tool for understanding human disease mechanisms and for the development of optimal strategies for their treatment.
In recent years, 3D retinal organoids derived from iPS cells have dramatically changed the scene for pathogenesis, modeling and therapeutic research in the field of retinal diseases.