

NOV
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4PM CET
VIRTUAL

iPSZÜRICH

A Lecture Series Focused on Induced Pluripotent Stem Cells



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iPSC DERIVED KIDNEY ORGANOIDS AS MODEL FOR STUDYING KIDNEY DISEASE AND REGENERATION

iPSC derived kidney organoids display nephron-like structures that show resemblance with real kidney and are therefore models to study kidney disease development, drug toxicity and regenerative therapies. This presentation will discuss the morphological and functional properties of kidney organoids and demonstrate the first attempts to culture kidney organoids in an on-chip device that allows endothelial ingrowth in the organoids, which is crucial for further maturation of kidney organoids. Furthermore, the application of kidney organoids for studying transplant kidney rejection and kidney fibrosis will be demonstrated.

