

>>> ANNOUNCEMENT



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Kidney regeneration from pluripotent stem cells

ABSTRACT

Human pluripotent stem cells can differentiate into all tissue cells and can be generated on a personalized basis. The differentiation of hiPSC into renal precursor cell types enables the establishment of renal rudiments in vitro and their further development into mature and functional renal structures - recapitulating the natural developmental process of kidney organogenesis. The resulting organoids can be used for organ modeling in vitro and for regenerative medicine. We will present our data on iPSC differentiation into kidney cell types, the potential role of the extracellular matrix in this process and the potential application of the approach in tissue modeling and regeneration.

BIO

Since 2009	Professor, Seoul National University, Seoul, Korea
Since 2006	Group leader, BCRT, Charité - Universitätsmedizin Berlin
2003-2006	Direktor der Zulassungsstelle für Stammzellforschung, Robert-Koch-Institut, Berlin
2000-2006	Assistant Professor, Department of Neurosurgery, Harvard Medical School and Massachusetts, General Hospital, Boston, USA
1995-2000	Assistant Professor, Department of Neurosurgery and Lombardi Cancer Center, Georgetown University, Washington DC, USA
1991-1995	Postdoc, National Institutes of Mental Health, Bethesda, USA
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**Leibniz Institute of Polymer Research, Max-Bergmann Center of Biomaterials
Seminar Room B1, Ground floor, Budapester Straße 27**

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