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MIF-2/D-DT is a cytokine with cell protective and regenerative function in the kidney proximal tubule

The macrophage migration inhibitory factor (MIF) is an inflammatory and stress-regulating cytokine with cell protective capacity. MIF-2/D-DT is 30% homologous to MIF and has also been shown to be cytoprotective in ischemia-reperfusion injury in various cell types. Both MIF and MIF-2/D-DT signal through the CD74 receptor to which MIF-2/D-DT is a more selective agonist. Studies in my lab have shown the protective effect of MIF-2/D-DT on the proximal tubule of the mouse kidney in an ischemia-reperfusion model and in hypoxically cultured proximal tubule cells. We show that MIF-2/D-DT treatment induces cell proliferation and stimulates autophagy through activation of eIF2 α and the ATF4 transcription factor.

Time: Monday 16th December 2019, 17:15h
Location: Pathologie Universitätsklinikum
Erlangen
Krankenhausstr. 8-10
Oberer Hörsaal, Raum A 2.150

The seminar is video transmitted to:
Universität Regensburg
Institut für Physiologie
Raum VKL 4.1.29