

Special Issue

Extracellular Vesicles in Renal Diseases and Regeneration

Message from the Guest Editor

Extracellular vesicles (EVs) are emerging as important players in cell-to-cell communication. EV content (RNAs and proteins) reflect the state of producing cells/tissues and can be modulated by different environmental factors. Increasing interest is aimed at the pro-regenerative effects of EVs of different origin in different in vitro and in vivo models of acute and chronic kidney disease. It has been shown that EVs from stem cells mimic the cells of origin and, once injected in vivo, improve renal function and morphology by inducing pro-regenerative program in cells survived to different types of injury. Moreover, it has been reported that urinary EVs can act in inter-nephron communication in physiological and pathological conditions. The focus of this Special Issue will be, but not limited to: - on the role of EVs in intra-renal communication - on EVs as bio-markers of renal diseases - on EVs as cell-free therapeutic agents

Guest Editor

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