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Therapeutic Exosomes for Acute Kidney Injury

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Exosomes, a subtype of extracellular vesicles, are cell-derived lipid bilayer membrane nano-sized particles, which contain various bioactive molecules, such as mRNA, miRNA, non-coding RNA, proteins, and lipids. Exosomes play an important role in cell-to-cell communication, by transferring information from host cells to recipient cells. Currently, exosomes have been spotlighted as diagnostic biomarkers and therapeutic agents in various diseases. In addition, exosomes have been widely used for drug delivery tool. I would like to introduce the EXPLOR[®] (Exosomes for protein loading via optically reversible protein-protein interactions) technology developed by ILIAS Biologics Inc. and to explain the recent study demonstrating the effects of Exo-srI κ B, an NF- κ B signal inhibitor using EXPLOR, in experimental AKI.