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New insights into the biological impacts of immune cell-derived exosomes within the tumor environment

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Abstract:

Exosomes are a group of nano-sized membrane vesicles that transfer proteins, nucleic acids, and lipids to nearby and faraway cells, playing an important role in the intercellular communication within the extracellular environment. Emerging evidences show that exosomes derived from immunocytes, including dendritic cells, T cells, B cells, macrophages, natural killer cells and myeloid-derived suppressor cells, can play an intimate role in the crosstalk among immunocytes in a tumor microenvironment. In this review, we highlight that under tumor conditions, immune cells and tumor cells can be influenced by immunocyte-derived exosomes, resulting in modifications of their phenotype and function. Thus, a better understanding of exosomes derived from different immunocytes would provide novel strategies in generating effective vaccines or improving treatment efficacy in anticancer therapies.

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