



## Special Issue

# Exosomes in the Occurrence and Progression of Cancer

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## Special Issue Introduction

As a biological carrier for exchange of information between cells, exosomes can induce altered pathways in biosynthesis and ion regulatory channels in recipient cells. The environment and stress factors present or induced by treatment in the tumor microenvironment can dictate the features of exosomes produced by cancer or stromal cells. For instance, hypoxic tumor cells may produce exosomes with proteins or nucleic acids that promote or induce angiogenesis by inducing significant changes in recipient cells within or remote from the tumor. Cytokines can also induce a state of altered exosome production and cytokine-induced exosomes may be related to the immune surveillance of cancer or other diseases. Overall, a variety of reports in the literature have suggested that tumor-microenvironment derived exosomes play a major role in tumor proliferation, tumor growth and cell survival pathways. This special issue will attempt to highlight work in the field of exosomes and extracellular vesicles related to the stress response of tumor and stromal cells that may drive cancer progression as well as dictate the response of residual tumor and metastatic cascades to standards of cancer care such as radiation, chemotherapy or surgery.

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