August 15, 2020 | Volume 80 | Number 16

CANCER RESEARCH

TABLE OF CONTENTS

TABLE OF CONTENTS

TUMOR BIOLOGY AND IMMUNOLOGY

TABLE OF CONTENTS

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TABLE OF CONTENTS

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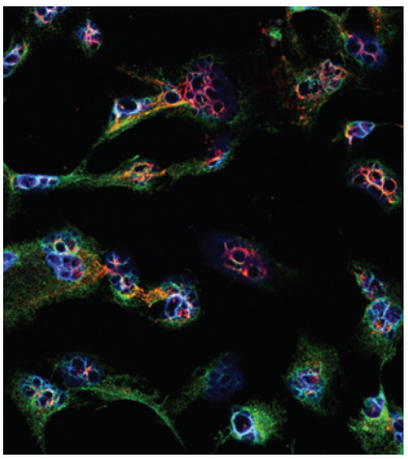

Neoadjuvant chemotherapy provides long-term clinical benefits to patients, especially when the primary tumor fully regresses before surgery. However, therapeutic benefits of these anticancer drugs may be limited by tumor-promoting host responses, which are frequently elicited by off-target effects of chemotherapy and are manifested as stromal cell senescence in the tumor microenvironment. Senescent stromal cells produce a large number of small extracellular vesicles (sEV) responsible for development of acquired cancer resistance. With confocal microscopy, active biosynthesis of sEVs by senescent stromal cells can be observed, as evidenced by remarkable expression of CD63 (green), a tetraspanin protein, and TSG101 (red), both typical biomarkers of sEVs. Nuclei were stained with DAPI (blue). For details, see article by Han and colleagues on page 3383.

Cancer Research
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