

15 MAY

4.30 P.M. ROOM A102 POVO 1

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Pros & cons of senescence

in cancer therapy

Cellular senescence plays a dual, context-dependent role in cancer, either suppressing or promoting tumor progression. Senescent tumor cells have been shown to enhance metastasis in various cancers, including prostate cancer, through the senescence-associated secretory phenotype (SASP) and the release of mitochondrial DNA into the tumor microenvironment. Senescence also affects immune cells like PMN-MDSCs, which,

Senescence also affects immune cells like PMN-MDSCs, which, in a senescent-like state, become more immunosuppressive and tumor-supportive.

This senescence-driven communication contributes to immune evasion and tumor growth. Emerging therapies aim to eliminate senescent cells or modulate SASP, showing promise in reducing metastasis and enhancing anti-tumor immunity.

CIBIO EXTERNAL SEMINAR





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