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Biomolecular bases of the senescence process and cancer. A new approach to oncological treatment linked to ageing.

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Highlights

We review biomolecular relationship between cellular senescence, ageing and cancer.

Pro-inflammatory and oxidative senescence status induces tumour-promoting microenvironment.

Cell signalling pathways altered during aging and cancer may be reversible mechanisms.

The first clinical trials of micro-RNA therapy against cancer are already on their way.

We discuss biomolecular therapeutic strategies to treat cancer linked to ageing.

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