



BIOMARKERS FOR SENESCENT CELLS

TECHNOLOGY DESCRIPTION

The presence of senescent cells in an individual is thought to contribute to aging and aging-related dysfunction. Senescent cells accumulate in tissues and organs of individuals as they age and are found at sites of age-related pathologies. Moreover, there is growing evidence that senescent cells drive a growing and diverse number of age-related diseases, including those of tumor progression. There is already a number of drugs in development that selectively target senescent cells and eliminate them (senolytic drugs) leading to a need to be able to assess whether and to what extent a senolytic drug is efficacious. The present Buck invention provides a pathway towards doing so.

APPLICATIONS

- Diagnostic for measuring elevated senescent cells in a patient.
- Companion diagnostic for senolytic drugs.
- Method of treating pathologies associated with elevated senescent cells by administering a senolytic.

PATENT STATUS

Patent pending in US and other jurisdictions

[Published Application](#)

LEAD INVESTIGATOR

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BI 348

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