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
Judith Campisi, Ph.D.

CASE NUMBER
BI 348

CONTACT
Ellen Kats, Ph.D.
Sr. Director, Business Development
ekats@buckinstitute.org