Anti-Aging

OCR Number: OCR 5132

Description:

A new method to increase longevity or treating cellular stress

- Over-expressing either pch-2 or bmk-1 in C. elegans by microinjection extends worm lifespan by ~25% and enhances worm survival survival in response to various stressors including oxidation, apoptosis and DNA damage.

- Inhibition of either gene by RNAi results in shortened lifespan. Moreover, the over-expression of the human equivalents of these two genes in cultured fibroblasts confers resistance to environmental stressors, and promotes cell survival after exposure to radiation or oxidative stress.

**Over-expression of the genes extends lifespan and stress-resistance in C. elegans.** Gene expression level of (a) *pch-2* and (c) *bmk-1* and lifespan measurement of (b) *pch-2* and (d) *bmk-1*.

**Patent:** US Patent Application Pending


PI: Laura Niklason

**Licensing Contact:** Hong Peng

hong.peng@yale.edu