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 by 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*.


**PI**: Laura Niklason

**Licensing Contact**: Hong Peng
hong.peng@yale.edu