

Ageless quest - one scientists search for genes that prolong youth

Cold Spring Harbor Laboratory Press - Ageless quest : one scientist's search for genes that prolong youth



Description: -

- Aging -- Molecular aspects
- Aging -- Genetic aspects
- Ageless quest - one scientists search for genes that prolong youth

Notes: Includes bibliographical references (p. 137-144) and index
This edition was published in 2003



Filesize: 60.93 MB

Tags: #Tips #for #youth

Live fast, die young, EMBO Reports

This explains a lot about why and how we age, but has it any relevance for single-cell yeast? It offers an insider's view of an area of potentially astonishing high reward--and equally high risk. Although many researchers studying ageing would not sign up to an agenda that aimed to increase lifespan per se, they would agree that their aim is to improve health in old age. Is our biological decline, once we are past our prime, governed by Sir2 alone? This form of regulation, which probably helps by providing a degree of adaptive plasticity to allow organisms to cope with fluctuating nutrient availability, seems to work across the species range.

Ageless Quest: One Scientist's Search for the Genes That Prolong Youth by Leonard Guarente

He thinks that drugs targeted at products of genes such as SIR2 will become available in the next 10 or 20 years to improve age-specific health and slow down ageing.

Ageless quest : one scientist's search for genes that prolong youth

A bright mind may be a prerequisite for success, but in the business of modern science it is by no means sufficient. But no connection between the longevity induced by calorie restriction and the endocrine system has been found--until now.

Nonfiction Book Review: AGELESS QUEST: One Scientist's Search for Genes that Prolong Youth by Leonard Guarente, Author, Lenny Guarente, Author . Cold Spring Harbor Laboratory \$19.95 (168p) ISBN 978

Science can be like sausage—sure, you like it, but you're better off not knowing how it's made. Welcome to the Leonard Guarente lab at MIT.

Live fast, die young, EMBO Reports

Ageless Quest is, therefore, not just a book about ageing, nor just about genes and proteins; it is also about people, and the nitty-gritty of doing science at the end of the twentieth century. After tenure and security, he cast around for a riskier, less mature research area, and considered working both on AIDS too crowded and the human brain too difficult. When these two individual neurons were killed by a laser beam, the worms could not enjoy the longevity normally associated with calorie restriction.

The Leonard Guarente lab at MIT

The indications so far from model organisms are that interventions that slow down ageing can also improve age-specific health. To those who are able to read between the lines, these snapshots contain useful advice, particularly for the young and inexperienced, on how to survive, and maybe even prosper, in the world of ivory towers. Furthermore, through its close association with NAD, SIR2 is well-placed to respond to variations in environmental nutrient supply and to optimise the trade-off between survival and reproduction, just as the disposable soma concept suggests.

Ageless quest : one scientist's search for genes that prolong youth : Guarente, Leonard : Free Download, Borrow, and Streaming : Internet Archive

Writing about caloric restriction in the late 1980s, David Harrison and Robin Holliday pointed out that mammals and other animals have evolved methods of surviving hard times, particularly food shortage.

The Leonard Guarente lab at MIT

Ageless Quest, although having this appearance, is an interesting exception, because it is written by a scientist at the peak of his powers. The common features of ageing are a decline in fecundity and increased vulnerability to death during adulthood.

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