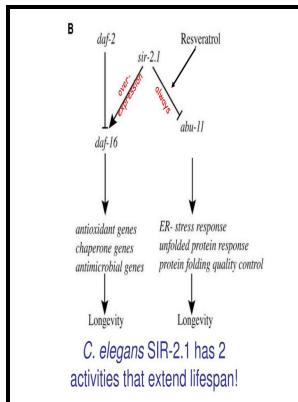


Ageless quest - one scientists search for genes that prolong youth

Cold Spring Harbor Laboratory Press - The Leonard Guarente lab at MIT



Description: -

Aging -- Molecular aspects

Aging -- Genetic aspects

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Notes: Includes bibliographical references (p. 137-144) and index

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MIT biologists link calorie restriction, endocrine function in worm longevity

One of a troika of unrelated SIR proteins, the SIR2 gene product is involved in suppressing gene transcription. The author writes with the clarity of a first-class journalist, an infectious enthusiasm and an eye for the revealing anecdote. This, admittedly, makes for sedate though quite amiable, utilitarian reading.

Tips for youth

At the same time, the lack of skn-1 genes had little or no effect on the lifespan of worms whose calorie intake was not restricted, Guarente said.

Tips for youth

These could contribute to ageing, but it seemed unlikely that they represented any kind of general mechanism. Several straws in the wind suggested that ageing could be amenable to the standard methods of genetic analysis. Ageless Quest can be understood by lay readers with a general scientific background that includes traces of fundamental biochemistry—at least if one attempts to keep up with the finer details of the author's line of argument.

Live fast, die young, EMBO Reports

Chapter 5 The Rise and Fall of rDNA Circles and the Emergence of SIR2 Chapter 6 A Molecular Blueprint for Prolonging Life Span Chapter 7 SIR2 as a Universal Regulator of Survival Chapter 8 Nature Promotes Survival in the Face of Scarcity Chapter 9 Theories of Aging: SIR2 Is More Evolutionary than Revolutionary Chapter 10 Calorie Restriction and Life Span Chapter 11 Aging and Cancer in Mammals Chapter 12 Relevance to Human Aging Chapter 13 Starting a Biotechnology Company: Drugs for Aging? The message of Ageless Quest is that the prospects for improving health in the elderly are far greater than has been supposed, and that these improvements are, in turn, likely to extend lifespan.

Live fast, die young, EMBO Reports

Guarente, a biologist at MIT whose work on aging has been featured in the Wall Street Journal, the New York Times and the Boston Globe, does gripe now and again about such things as the hardships of the tenure track. But, from a healthily cynical point of view, the mere prospect of a cure for the eventually inevitable seems to be a very promising business. At first, it seemed that SIR2 was involved merely in a specific form of genome instability: the formation of extrachromosomal rDNA circles.

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

Why do living things age? Welcome to the Leonard Guarente lab at MIT.

Ageless Quest: One Scientist's Search for the Genes That Prolong Youth: 9780879696528: Medicine & Health Science Books @ quizapp.evertonfc.com

Guarente, Novartis Professor of Biology, and postdoctoral associate Nicholas A. But in a unicellular organism, surely Weismann's germline—soma distinction vanishes. The author writes with the clarity of a firstclass journalist, an infectious enthusiasm and an eye for the revealing anecdote.

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

Aging has always been regarded as a highly complex process with many degenerative changes leading to the cessation of life. It offers an insider's view of an area of potentially astonishing high rewardand equally high risk.

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