

## springer.com



2010, XXII, 248p. 34 illus., 4 illus. in color.



## Hardcover

- ► 189,99 € | £173.00 | \$259.00
- ► \*203,29 € (D) | 208,99 € (A) | CHF 255.50



For individual purchases buy at a lower price on <u>springer.com</u>.

A free preview is available.

Also available from libraries offering Springer's eBook

Collection.

springer.com/ebooks



Printed eBook exclusively available to patrons whose library offers Springer's eBook Collection.\*\*\*

- ▶ € | \$ 24.95
- springer.com/mycopy

N. Tavernarakis, Institute of Molecular Biology and Biote, Heraklion, Greece (Ed.)

Protein Metabolism and Homeostasis in Aging

Series: Advances in Experimental Medicine and Biology, Vol. 694

- ► Illustrates that aging cells are characterized by alterations in the rate, level and accuracy of protein synthesis compared to young ones
- ▶ Details how mRNA translation is controlled at multiple levels
- ► Discusses paradoxical situation of autophagy up#regulation in models of premature aging
- ► Examines the role of mitochondria in protein quality control and the influence of reactive oxygen species

The focus of this book is on the role of protein metabolism and homeostasis in aging. An overview is provided of the current knowledge in the area, including protein synthesis, accuracy and repair, post#translational modifications, degradation and turnover, and how they define and influence aging. The chapters mainly focus on well#characterized factors and pathways, but new areas are also presented, where associations with aging are just being elucidated by current experimental data.



Order online at springer.com ► or for the Americas call (toll free) 1-800-SPRINGER ► or email us at: orders-ny@springer.com. ► For outside the Americas call +49 (0) 6221-345-4301 ► or email us at: orders-hd-individuals@springer.com.

The first  $\in$  price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with \* include VAT for books; the  $\in$ (D) includes 7% for Germany, the  $\in$ (A) includes 10% for Austria. Prices indicated with \*\* include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted.