Aging Mechanisms [Longevity, Metabolism, and Brain Aging /

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Springer

Medicine | Human physiology | Neurosciences | Geriatrics | Cell biology | Biomedicine | Neurosciences | Human Physiology | Geriatrics/Gerontology | Cell Biology

Monografía

This book brings together the most up-to-date information on recent research results of leading laboratories on aging science in East Asia, particularly in Japan, Korea, and Hong Kong. Starting with a comprehensive overview of various hypotheses on biological mechanisms of aging by Dr. Sataro Goto, each chapter covers broad aspects of the most recent findings in aging-related topics: centenarian studies and genome analysis of progeria, metabolic biochemistry and neurobiology, longevity controls in yeast and nematodes, oxidative stress and calorie restriction, and neurodegeneration mechanisms in Alzheimer's and Huntington's diseases, with further potential therapeutic approaches to these age-related neurodegenerative diseases. Also included, in part, is a summary and the outcomes of a scientific discussion forum called the Asian Aging Core for Longevity (AACL) that has been held annually alternating between Japan and Korea during the last decade. This book can serve as a useful resource for finding appropriate collaborators in the areas it covers. The target readership is made up of graduate students and researchers at universities, medical and/or life-science schools, and biomedical and pharmaceutical institutes. Why does aging exist? How do we age? How is each organism's lifespan determined? These are fundamental questions in the field. We may be still far from achieving a complete view of aging mechanisms, but this book, Aging Mechanisms, offers an excellent opportunity to become familiar with the most updated progress in the biomedical research of aging in Japan and Korea, the two leading nations for human longevity

Título: Aging Mechanisms Recurso electrónico] Longevity, Metabolism, and Brain Aging edited by Nozomu Mori, Inhee Mook-Jung

Edición: 1st ed. 2015

Editorial: New York [etc.] Springer

Descripción física: XIV, 439 p. 85 il., 63 il. en color

Contenido: Preface -- Part I From Hypotheses to Mechanisms -- Part II Human Longevity: Centenarianism and Progeria -- Part III Stem Cells, Cultured Neurons, and Lower Animal Models -- Part IV Metabolism: Factors Affecting Tissue Aging -- Part V Aging Brain: Adult Neurogenesis, Synaptic Plasticity, and Brain Volume -- Part VI Aged Brain: Mechanisms of Neurodegeneration -- Part VII Anti-Brain Aging: Neuroprotection and Therapeutic Approaches -- Epilogue -- Appendix -- Index. .

Detalles del sistema: Modo de acceso: Word Wide Web Modo de acceso: World Wide Web

Fuente de adquisición directa: Springer (e-Books)

ISBN: 9784431557630 9784431557623

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