



# Handbook of the Biology of Aging, Eighth Edition (Handbooks of Aging)

*From Academic Press*

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## Handbook of the Biology of Aging, Eighth Edition (Handbooks of Aging)

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Handbook of the Biology of Aging, Eighth Edition, provides readers with an update on the rapid progress in the research of aging. It is a comprehensive synthesis and review of the latest and most important advances and themes in modern biogerontology, and focuses on the trend of 'big data' approaches in the biological sciences, presenting new strategies to analyze, interpret, and understand the enormous amounts of information being generated through DNA sequencing, transcriptomic, proteomic, and the metabolomics methodologies applied to aging related problems.

The book includes discussions on longevity pathways and interventions that modulate aging, innovative new tools that facilitate systems-level approaches to aging research, the mTOR pathway and its importance in age-related phenotypes, new strategies to pharmacologically modulate the mTOR pathway to delay aging, the importance of sirtuins and the hypoxic response in aging, and how various pathways interact within the context of aging as a complex genetic trait, amongst others.

- Covers the key areas in biological gerontology research in one volume, with an 80% update from the previous edition
- Edited by Matt Kaeberlein and George Martin, highly respected voices and researchers within the biology of aging discipline
- Assists basic researchers in keeping abreast of research and clinical findings outside their subdiscipline
- Presents information that will help medical, behavioral, and social gerontologists in understanding what basic scientists and clinicians are discovering
- New chapters on genetics, evolutionary biology, bone aging, and epigenetic control
- Provides a close examination of the diverse research being conducted today in the study of the biology of aging, detailing recent breakthroughs and potential new directions

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## **Editorial Review**

### **About the Author**

Matt Kaeberlein is a Professor of Pathology and Adjunct Professor of Genome Sciences at the University of Washington. He is the co-Director of the University of Washington Nathan Shock Center of Excellence in the Basic Biology of Aging and Director of the Healthy Aging and Longevity Research Institute.

His activities related to the biology of aging have included serving on the Executive Committee of the Biological Sciences section of the Gerontological Society of America and the Board of Directors for the American Aging Association. Dr. Kaeberlein also Directed the Biology of Aging Summer Course and the Marine Biological Laboratory in Woods Hole, MA from 2014-2015.

Dr. Kaeberlein has authored more than 130 publications on the basic biology of aging, and has been recognized with several awards, including a Breakthroughs in Gerontology Award from the Glenn Foundation, an Alzheimer's Association Young Investigator Award, an Ellison Medical Foundation New Scholar in Aging Award, an Undergraduate Research Mentor of the Year Award, and a Murdock Trust Award. In 2011, he was named the Vincent Cristofalo Rising Star in Aging Research by the American Federation for Aging Research and appointed as a Fellow of the Gerontological Society of America, and in 2014 he was elected as the incoming President of the American Aging Association. Dr. Kaeberlein currently serves on the editorial boards for Science, Aging Cell, Cell Cycle, PloS One, Frontiers in Genetics of Aging, npj Aging and Mechanisms of Disease, F1000 Research, Ageing Research Reviews, BioEssays, and Oncotarget

George Martin is Professor Emeritus of Pathology (Active) at the University of Washington, where he has also served as an Adjunct Professor of Genome Sciences. He was the Founding Director of that institution's Medical Scientist Training Program, Alzheimer's Disease Research Center and the first NIA T32 training grant on genetic approaches to aging research.

His activities related to the biology of aging have included the Presidency of the Gerontological Society of America, the Scientific Directorship and Presidency of the American Federation for Aging Research, membership on the National Advisory Council and Board of Scientific Counselors of the National Institute on Aging, member and Chair of the Scientific Advisory Board of the Ellison Medical Foundation and Chairmanship of a Gordon Conference on the Biology of Aging.

Honors for his research have included the Brookdale, Kleemeier and Paul Glenn Foundation awards of the Gerontological Society of America, the Allied-Signal Corporation Award, the Irving Wright Award of the American Federation for Aging Research, the American Aging Association Research Medal and Distinguished Scientist Award, the Pruzanski Award of the American College of Medical Genetics, and a World Alzheimer Congress Lifetime Achievement Award. He has also received an Outstanding Alumnus Award from the University of Washington School of Medicine. Dr. Martin was elected to the Institute of Medicine of the National Academy of Sciences and now serves as a Senior Member.

Dr. Martin's research focus has been on genetic aspects of aging in mammals, particularly human subjects. That research led to the characterizations of mutations responsible for several segmental progeroid syndromes, notably the Werner syndrome, as well as early studies of the genetics of dementias of the Alzheimer type.

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