Special Issue

Autophagy Meets Aging 2025

Message from the Guest Editors

Aging is marked by multiple biological disarrangements that predispose older individuals to increased vulnerability to the development of chronic diseases and functional decline. Declines in autophagy and cellular quality control systems are advocated as being among pillars of the aging process by contributing to the accrual of intracellular “waste”. Organelle-specific forms of autophagy have been identified. Due to the pro-inflammatory nature of some intracellular components, the coordinated activity of these recycling machinery is especially relevant for limiting inflamm-aging through efficient housekeeping. This Special Issue aims to gather contributions on age-related changes in autophagy and other cellular quality control processes from different, yet complementary, points of view, by convening clinicians and basic researchers working in the field of biogerontology in humans and pre-clinical models. If the molecular determinants of these changes were to be unveiled, innovative anti-aging remedies and personalized interventions targeting cellular quality control could be developed to extend both health- and lifespan.

Guest Editors

Prof. Dr. Christiaan Leeuwenburgh

Institute on Aging, UF Claude D. Pepper Older American Independence Center, College of Medicine, University of Florida, Gainesville, FL 32611, USA

Dr. Anna Picca

1. Department of Medicine and Surgery, Lum Jean Monnet University, 70010 Casamassima, Italy
2. Department of Geriatrics, Neuroscience and Orthopedics, Fondazione Policlinico Universitario "A. Gemelli", IRCCS, 00168 Rome, Italy

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Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

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Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

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Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

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