DE G DE GRUYTER

SPECIAL ISSUE AT OPEN MEDICINE

AGING-RELATED DISEASES: ADVANCES IN UNDERSTANDING AND THERAPEUTIC STRATEGIES

GUEST EDITORS

Paola Frati, Department of Anatomical, Histological, Medico-legal and Orthopaedic sciences, Section of Forensic Medicine, "Sapienza" University of Rome, Rome, Italy.

Simona Zaami, Department of Anatomical, Histological, Medico-legal and Orthopaedic sciences, Section of Forensic Medicine, "Sapienza" University of Rome, Rome, Italy.

SCOPE

This special issue will focus on a broad range of topics within the field of aging-related diseases, including but not limited to:

- Pathophysiological mechanisms of aging-related diseases, including neurodegenerative disorders, cardiovascular diseases, and diabetes.
- Novel diagnostic tools and biomarkers for early detection and monitoring of aging-related conditions.
- Advances in therapeutic approaches, including pharmacological interventions, gene therapy, and regenerative medicine.
- Role of lifestyle interventions and preventive strategies in mitigating the impact of aging-related diseases.
- Public health challenges and healthcare system preparedness for managing an aging population.
- Impact of comorbidities and polypharmacy on treatment outcomes in elderly patients.
- Evidence-based guidelines as an essential means to ensure the ethical and medicolegal tenability of highly innovative therapeutic interventions based on precision medicine, particularly in terms of access equality and patient rights.

BACKGROUND

The global increase in life expectancy has led to a rise in the prevalence of aging-related diseases, posing significant challenges to healthcare systems worldwide. These diseases encompass a spectrum of conditions, including neurodegenerative disorders, cardiovascular diseases, musculoskeletal conditions, and metabolic syndromes. The biological processes underlying aging, such as cellular senescence, oxidative stress, and chronic inflammation, contribute to the onset and progression of these diseases. Understanding these mechanisms is crucial for developing innovative therapeutic interventions and improving the quality of life for the aging population.

Aging-related diseases are a multidisciplinary field that requires input from clinical medicine, molecular biology, pharmacology, and public health. This special issue aims to provide a platform for researchers and clinicians to share their latest findings and to foster collaborations across disciplines.

CALL FOR PAPERS

The special issue seeks submissions in the form of original research articles, comprehensive reviews, meta-analyses, and clinical studies. Submissions addressing interdisciplinary approaches or providing novel insights into aging-related conditions are particularly encouraged.

We believe this special issue will align with the goals of Open Medicine in advancing clinical knowledge and promoting interdisciplinary research. It will serve as a valuable resource for clinicians, researchers, and policymakers aiming to address the challenges associated with aging-related diseases.

IMPORTANT DATES & HOW TO SUBMIT

To Submit a paper please use our system: https://www.editorialmanager.com/openmed/ As a Section Category please choose: SI Aging-Related Diseases. Submissions to this special issue can expect 30% discount for publication. Deadline for manuscripts submission: 30 September 2026.