

Promising therapies for treatment of male infertility and age-related fertility challenges

Male factors are responsible for up to 50% of cases of infertility and, in 25% of these cases, the etiology of male infertility is unknown. Impaired spermatogenesis and infertility of unknown origin are often accompanied by signs of testicular inflammation, oxidative stress and fibrosis.

Aging is linked to changes in the hypothalamic-pituitary-testicular axis. The reproductive system undergoes fluctuations in the production of sexual hormones, loss of libido and a gradual decline in fertility. Therefore, aging leads to a progressive decline of gonadal function affecting not only fertility but also the quality of life and life span. The oxidation-inflammation theory underlines the interdependence between oxidative stress and the occurrence of inflammatory process in the age-related impairment of the male reproductive function.

New and promising therapies are currently emerging for the treatment of idiopathic male infertility as well as anti-aging drugs to protect elder men's reproductive activity and general health status.

This call-for-papers is aimed at providing a platform for the dissemination of critical and novel ideas related to the exploration of novel therapeutic drugs to target male infertility, to delay reproductive senescence in men and/or to alleviate the negative health consequences of aging.

We welcome manuscripts, review articles and short communications, in English and Spanish, focused on understanding the mechanisms that regulate male fertility and longevity, including identification of novel compounds to alleviate the harmful consequences of sexual dysfunction and aging on steroidogenesis spermatogenesis and semen quality, the molecular and cellular mechanisms associated, and the relationship to overall organismal health span.

Keywords: Aging; (In)Fertility; Semen; Sperm; Testis

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Deadline for manuscript submissions: 20 December 2026

Online Submission System: <https://submit.intandro.com/ch/author/login.aspx>

Contact us: Editorial-office@intandro.net

Indexed in...

Revista Internacional de Andrología

Impact Factor: 0.8

Print ISSN: 1698-031X

Online ISSN: 1698-0409

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