Special Issue

Mechanisms That Link Olfactory Perception with Aging in Drosophila

Message from the Guest Editors

Olfaction, the sense of smell, is an evolutionary conserved biological function that is essential for animal survival, playing critical roles in foraging, social interactions, and hazard detection. However, a gradual decline in olfactory function can be induced by increasing age in a condition known as presbyosmia. This decline results from structural and functional changes in the olfactory system, including a reduced number of olfactory receptor neurons, diminished regenerative capacity of olfactory stem cells, and alterations in central processing within the brain. Additionally, age-related factors such as chronic inflammation, environmental exposure, and neurodegenerative diseases like Alzheimer's can exacerbate olfactory impairment. Understanding the mechanisms behind olfactory aging is essential for developing interventions to mitigate its impact on health and well-being. Additionally, changes in olfactory acuity could be used to predict the onset of aging-related diseases.

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Deadline for manuscript submissions

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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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