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## ***Caenorhabditis elegans*: A Model Organism, Endless Possibilities**

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Deadline for manuscript  
submissions:

**closed (15 September 2023)**

### **Message from the Guest Editor**

Originally introduced as a model organism to study development and neurobiology in the mid-1960s, the nematode *Caenorhabditis elegans* has proven over the years to be extremely versatile and is currently used to investigate a wide range of topics in modern biology.

Several features including its small size, short life cycle, large brood size, transparency, and amenability to genetic studies, are the key to *C. elegans* success, and helped secure the Nobel Prize in Physiology or Medicine to Sydney Brenner, H. Robert Horvitz, and John Sulston.

The purpose of this Special Issue is to highlight recent advances in cell biology, genetics, and genomics research related to *C. elegans*, and to provide the reader with an overview of the biological questions that can be addressed using this simple metazoan. The potential topics include but are not limited to:

- Cell division and cell cycle;
- Organ development and programmed cell death (PCD);
- Nervous system;
- Autophagy and apoptosis;
- Innate immunity;
- Genetics and epigenetics of aging;
- C. elegans* as a model for human diseases;
- Oxidative stress, mitochondrial function, and longevity;
- Genome-wide screens;
- Expression and function of small RNAs.



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**Special Issue**



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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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