

Special Issue

Transposable Elements: The Impact on the Structural and Functional Organization of the Genome

Message from the Guest Editor

Transposable elements are a relevant and fascinating part of the genome of all living organisms, from bacteria to humans, which simultaneously show both their bad and their good sides. On the one hand, these elements are, in fact, capable of producing harmful effects due to their ability to jump from one part of the genome to the other. On the other hand, it is clear that these elements have, nevertheless, played an important role from an evolutionary point of view. Recent results have highlighted that transposable elements are not only implicated in the genesis of various complex diseases, but also in normal brain development. Despite the risks of their coexistence with host genomes, transposons have been recognized as important evolutionary tools for their capacity to reshape genomes by creating new regulatory elements, gene mutations and chromosome rearrangements—all of which are factors involved in adaptation processes. We are looking forward to your contributions to this Special Issue, whose purpose is to offer a panoramic view about the advances in recent research on such a versatile part of the genome.

Guest Editor

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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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