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

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Message from the Guest Editor

Dear Colleagues,

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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Special Issue



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