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Tetraploid Cells in Health and Disease

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Deadline for manuscript submissions:

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Message from the Guest Editor

Dear Colleagues,

Tetraploidization is the condition of having twice as many chromosomes as their normal, diploid counterparts. With the exception of some physiological statuses, cells do not tolerate the tetraploidy and activate programmed death pathways or elicit immune responses resulting in their elimination. However, tetraploidy can constitute a metastable intermediate between healthy diploidy and neoplastic aneuploidy. Indeed, tetraploid cells are detected in many cancers and are associated with cancer progression and aggressiveness, as well as therapeutic resistance and poor prognosis.

This Special Issue aims at presenting current status, recent developments, and future directions of research on tetraploid genomic status with emphasis on the following topics, but not only:

- Cancer research;
- Treatment therapy failure;
- Tetraploid stem cells;
- Animal models to study the disease mechanism of tetraploidization;
- Illicit survival of tetraploid cancer cells;
- Cancer metastasis provoked by tetraploidization.



Specialsue









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Message from the Editor-in-Chief

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