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## mtDNA and Mitochondrial Stress Signaling in Cancers

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submissions:

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### Message from the Guest Editors

The mitochondria of cancer cells have the ability to adapt to both metabolic and oxidative stress. Mitochondrial stress response mitigation via signaling pathways maintains mitochondrial integrity. Maintaining the integrity of the mitochondria in the stress response is one of the reasons for the progression and resistance of tumors to treatment. Research on mtDNA, as well as the signaling pathways that affect mitochondrial stability, may contribute to a better understanding of the carcinogenesis processes, and thus to the introduction of new anti-cancer therapies.

Potential topics include, but are not limited to, the following:

1. Polymorphism and mutations of mtDNA in tumors.
2. Oxidative phosphorylation in tumors.
3. Signaling pathways and mitochondrias in tumors.
4. Mitochondrial metabolism in tumors.
5. Mitochondria and metabolic or oxydative stress.

Dr. Ludmiła Grzybowska-Szatkowska

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*Guest Editors*



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# Special Issue



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## Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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