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Exercise and Mitochondrial Health

Guest Editors:

Message from the Guest Editors

Dear Colleagues,

Dr. Shuzhe Ding

Dr. Zhengtang Qi

Dr. Yi Sun

Dr. Zhe Zhang

Deadline for manuscript submissions: closed (20 March 2023) It is well-known that mitochondria are highly sensitive to and changeable with exercise. Exercise promotes mitochondrial biogenesis in many organs and tissues in addition to skeletal muscle, so "exercise promotes mitochondrial biogenesis to prevent or ameliorate a disease" has become a scientific paradigm. This paradigm guides our interpretation of current data and our hypotheses. With the advent of single-cell gene sequencing, there is growing evidence that the emphasis on "mitochondrial number" may ignore the heterogeneity of mitochondria. addition. "exercise-induced In mitochondrial biogenesis" as a positive physiological adaptation often contradicts the interpretation of complex pathologies. The reason for this is that some diseases, such as Alzheimer's disease and tumors, may be associated with increased mitochondria, so how to evaluate the benefit of exercise remains confusing.

This Special Issue welcomes manuscripts that specifically focus on exercise and mitochondria. Authors are encouraged to submit original articles and comprehensive reviews associated with this topic.

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Editor-in-Chief

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Message from the Editor-in-Chief

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