



Mitochondrial Transfer in Various Conditions

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Deadline for manuscript
submissions:
closed (15 March 2021)

Message from the Guest Editor

Dear Colleagues,

Because mitochondria are not only powerhouses but also hubs of intracellular innate immunity, the consequence of mitochondrial transfer could depend on context. For ex vivo gene therapy for mitochondrial DNA and more sophisticated mitochondria transplantation, in vitro methods to transfer exogeneous mitochondria more effectively have been intensively investigated. Although some clinical applications are very progressive, the relationship between the nuclear genome and mitochondrial DNA still remains mysterious, and a strategy to prevent the stimulation their innate immunity and apoptosis has to be established. It could help to more safely and effectively treat diseases and gather interdisciplinarily research related to mitochondrial transfer.

• **Topics:**

- Mitochondrial biology;
- Mitochondrial dynamics;
- Innate immunity;
- Autophagy;
- Mitochondrial diseases;
- Neurodegenerative diseases;
- Infertility;
- Cancer biology;
- Autoimmune disorders.





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Message from the Editor-in-Chief

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