



Mitochondrial Metabolism in Neural Regeneration

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Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editor

In fact, the vast majority of neurological disorders are somehow related with disturbed mitochondrial energetic metabolism. The poor survival and differentiation levels of neural stem cells (NSCs) during aging or neural injury have been one of the major drawbacks. Recent studies have shown that mitochondrial metabolism is pivotal in regulating NSC-mediated neural regeneration and neuroprotection, where the mitochondrial oxidative state plays a key role in these processes. Therefore, a better understanding of the mitochondrial mechanisms and therapeutic approaches responsible for the long-term survival, differentiation, and synaptic integration of newborn neurons may represent a step in the right direction. We invite investigators to contribute original studies and review articles that boost the improvement of neural replacement therapies by targeting mitochondria, oxidative state, and cellular metabolism. We are interested in articles from basic research to clinical application to foster the proliferation, differentiation, maturation, and functional integration of NSCs and/or new neural cells in both animals and human models.





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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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