



Bioenergetic in Mitochondria and Reactive Oxygen Species Production in Domestic Animals

Guest Editor:

Dr. Motoi Kikusato

Animal Nutrition, Life Sciences,
Graduate School of Agricultural
Science, Tohoku University, 468-
1 Aramaki Aza-Aoba, Aoba-ku,
Sendai 980-8572, Japan

Deadline for manuscript
submissions:

closed (30 September 2022)

Message from the Guest Editor

Dear Colleagues,

Mitochondria are the power plants of the cells and have an important role in cell energetic homeostasis. The organelle also generates reactive oxygen species as a byproduct of anerobic metabolism, which affects cell physiology, metabolism, immunity, etc. The study of mitochondria in domestic animals has evolved to understand the influences on phenotypes such as growth performance, stress resistance, and pathology. In this Special Issue, studies of mitochondrial functions, morphology/histochemistry and bioenergetics, but not genetics, in domestic animals' tissues and cultured cells are welcomed.

Dr. Motoi Kikusato
Guest Editor





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Editor-in-Chief

**Prof. Dr. Alessandra
Napolitano**

Department of Chemical
Sciences, University of Naples
"Federico II", Via Cintia 4, I-80126
Naples, Italy

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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Antioxidants Editorial Office
MDPI, St. Alban-Anlage 66
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