



Animal Models for Study of Pathophysiological Mechanisms of Hypertension and Its Complications

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Message from the Guest Editors

Dear Colleagues,

Since essential hypertension is part of many important health care problems, it is necessary to investigate its mechanisms in animal models. This type of experimental research may have potential clinical importance. This Special Issue will be focused on several important topics, including:

1) The pathophysiological mechanisms responsible for:

i) Blood pressure elevation during hypertension development and maintenance; ii) Organ damage in chronic hypertension; iii) Drug targeting of hypertension and its complications.

2) The participation of: i) Central and peripheral blood pressure control; ii) Vascular hypertrophy and endothelial damage; iii) Neural, humoral, and endocrine factors; iv) Immune mechanisms.

3) The role of: i) Altered redox signaling; ii) Chronic inflammation; iii) Microbiome changes; iv) Genetic and/or environmental factors.

4) The progress in: i) Pharmacological tools for the control of hypertension and organ damage; ii) Genetic modifications to alter blood pressure level; iii) Non-pharmacological interventions attenuating hypertension and its complications.





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Message from the Editor-in-Chief

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