



State-of-the-Art Hypertension and Biomedicine in the USA

Guest Editors:

Dr. Pedro A. José

Medicine and
Physiology/Pharmacology,
School of Medicine and Health
Sciences, The George
Washington University,
Washington, DC, USA

Dr. Robin A. Felder

Department of Pathology,
University of Virginia,
Charlottesville, VA 22903, USA

Deadline for manuscript
submissions:

closed (31 July 2023)

Message from the Guest Editors

The long-term regulation of blood pressure rests on renal and non-renal mechanisms. The gastrointestinal tract has to be integrated in the overall regulation of sodium balance and blood pressure because it is the first organ exposed to ingested sodium. The gut microbiota can regulate about 10% of the host's transcriptome, especially those genes related to immunity, cell proliferation, and metabolism. Hypertension develops with chronically increased sodium intake when sodium that accumulates in the body can no longer be sequestered (e.g., skin), extracellular fluid volume is expanded, and compensatory neural, hormonal, and pressure-natriuresis mechanisms fail. However, sodium is not the only mineral that can affect blood pressure. Moreover, sodium can affect overall health independent of blood pressure regulation. Thus, it is important to test the effect of minerals on blood pressure regulation-related and unrelated mechanisms, such as studying renal tubule cells shed in the urine. The changing environment has to be put into consideration into all the above mechanisms in the pathogenesis of hypertension.





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Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research
Learning, Spaulding
Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA
2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

Message from the Editor-in-Chief

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MDPI, St. Alban-Anlage 66
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