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Noble Gases and Gas Transmitters as Therapeutic and Preventive Molecules

Guest Editor

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Message from the Guest Editor

Several gaseous molecules have been demonstrated as potential therapeutic, preventive, and diagnostic agents. Protocols of hundreds of clinical trials have been registered a t ClinicalTrials.gov, suggesting a high implementation potential for gaseous agents. The mechanistic basis of gasand gas transmitter-medicated organ protection involves the modulation of oxidative stress, inflammatory responses, apoptotic processes, cell survival, and tissue repair. However, further efforts are needed to elucidate the entire spectrum of biological effects of gaseous molecules with promising therapeutic potential with especial attention to their possible toxicity and adverse reactions. Authors are invited to contribute to this Special Issue focusing on the mechanisms of protective effects exerted by gaseous molecules, their biological effects, signaling pathways, molecular targets, tissue distribution, biotransformation, preconditioning regimes, potential toxicity, and novel technologies of delivery.

- noble gases
- gas transmitters
- cardiology
- electrophysiology
- neuroprotection
- cardioprotection













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Message from the Editor-in-Chief

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