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Environmental, Metabolic and Drug-Induced Stress Pathology – Diagnosis, Pharmacokinetics, Pharmacodynamics, and Modern Therapeutic Approaches

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Message from the Guest Editor

Numerous types of stress factors or stressors may act on humans, either environmental (thermal stress or viral infections), metabolic (high body-mass index), or drug-related (alcohol, nicotine, anesthetic drugs, or opioids), frequently associated with oxidative stress. On the other hand, the knowledge of pharmacokinetics and pharmacodynamics may use their manipulation in therapy, such as therapeutic hypothermia, pharmacokinetic–pharmacodynamic (PKPD) models of reversal of opioid-induced respiratory depression (OIRD), or novel nano-based drug delivery systems. This Special Issue aims to collect articles specifically related to the influences of different types of stressors in pathology, new tools of diagnosis, and the possibilities to exploit their pharmacokinetics and pharmacodynamics, such as therapies using microparticles and nanoparticles, along with reviews providing information on the state of the art, ongoing research, and future perspectives in this field.



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