



Thyroid Hormone Therapy for Organ Repair: Present State, Problems and Future Vision

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Message from the Guest Editor

Thyroid hormone (TH) is a critical regulator of essential biological processes and organ maturation during perinatal development. Later, in adult life, the availability of TH is critical for repair and recovery after injury. In this regard, low triiodothyronine (T3) levels are an independent strong predictor of disease outcome. Stressful stimuli (hypoxia, hyperglycemia, trauma, etc.) have been shown to trigger changes in the tissue TH signaling axis in different adult mammalian organs. This response provokes an adaptive/maladaptive process characterized by the reactivation of fetal developmental programs, structural remodeling, and pathological growth. Furthermore, a growing body of experimental and clinical evidence suggests that TH treatment may improve organ structure and function in disease and critical states, such as myocardial infarction, heart failure, brain ischemic stroke, multiple sclerosis, skeletal muscle trauma, sepsis, ARDS, and transplantation.





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