



Growth Hormone Axis and Stress Biology

Guest Editor:

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Message from the Guest Editor

Stress is a broad term that can refer to the adrenal response to noxious stimuli, both physiological and psychological, metabolic perturbances such as nutrient imbalances or exogenous insults such as toxins. Importantly, the somatotrophic and HPA axes often converge on pathways involved in mitigating the response to stress, regardless of the root cause, as well as having a significant degree of crosstalk to modulate each other's activities. The Special Issue "Growth Hormone Axis and Stress" of the *International Journal of Molecular Sciences* will provide an overview of the role of GH signaling in modulating the response to stress through a series of original research articles and reviews.

Topics include:

- GH/IGF axis and HPA axis activity
- Glucocorticoids and somatotrope function
- Diet, GH, and POMC activity
- Ghrelin and stress related behaviors
- GH and Nrf2 activity
- GH and stress resistance pituitary mutants
- GH and oxidative stress
- GH and ER stress
- Stress, GH, and muscle function
- Glucocorticoids and IGF-I signaling
- Stress and obesity
- Social stress and GH signaling





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Message from the Editor-in-Chief

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