



Advances in the Research of Endocrine and Metabolic Disorders in the Human Reproductive System

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Message from the Guest Editors

Infertility is a disease of the reproductive system, with endocrine and metabolic abnormalities being the most common cause of reproductive disorders. There are still many unknown mechanisms of reproductive endocrine and metabolic abnormalities. Reproductive endocrine and metabolic disorders are centrally regulated by the hypothalamus. Hypothalamic metabolism affects hormonal imbalance, and hormonal imbalance and energy depletion lead to changes in metabolic pathways and impairment of the interrelationship between energy metabolism and reproduction. Reproductive health is affected by energy status, which in turn changes metabolic pathways and hormone levels. The primary goal is to gain sufficient knowledge from multi-omics to develop future diagnostic and therapeutic procedures to improve human reproductive health.

The purpose of this SI is to dig deeper into the multifaceted research affecting infertility and to lay the theoretical foundation for individualized medicine. Both original manuscripts and reviews discussing genomic, transcriptomic, epigenomic, proteomic, and metabolomic abnormalities related to reproductive physiology in human and animal models are highly welcome.





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Message from the Editor-in-Chief

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