



## **Molecular Connection between Hormones, Endothelium and Cytokines in Andrology**

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### **Message from the Guest Editors**

The study of male fertility is growing in response to the need of discovering new tools able to diagnose and treat the high rate of infertility and the larger demand of treatments such as medical procreation. Tests that are currently available to the clinician include enhanced semen analysis, antisperm antibody assay, sperm penetration assay, and hemizona assay. Therefore, it is necessary to carry out studies aimed to determine the key molecular factors involved in fertility and define the biomarkers that determine sperm function, such those related to DNA integrity, oxidative stress, and RNA expression profile.

Sexual function is strictly related to the endothelial function and male hypogonadism; testosterone receptors are expressed in the endothelium and vascular smooth cells. The association between coronary artery disease/myocardial infarction and male hypogonadism supports the hypothesis that endothelial dysfunction negatively affects the cardiovascular system.

The aim of this Special Issue is to update, identify, and better understand the mechanisms involved in sexual function and fertility and how they affect men's lives.





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## Message from the Editor-in-Chief

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