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Male Infertility—Diagnosis and Treatment

Guest Editors:

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Message from the Guest Editors

In recent years, several new approaches to diagnosis of male infertility have been proposed, with some modest success. These include a DNA fragmentation index test and measurement of oxidative stress induced by reactive oxygen species; tests that assess sperm function, such as acrosome integrity, mitochondrial activity, and the ability to undergo capacitation; multiomics comprising genomics, epigenetics, transcriptomics, proteomics, and metabolomics; reliable and efficient integration of emerging technologies.

For this special issue, we are seeking many reviews and research articles exploring the challenges and recent developments in male infertility testing and diagnosis. Potential topics include (but are not limited to):

1. The role of specific genes, sperm epigenetic alterations, mitochondrial DNA alterations, and specific proteins in sperm and seminal plasma, in male infertility.
2. The role of intracellular structures such as sperm centriole in male infertility.
3. Full-scale untargeted genomics, epigenomics, transcriptomics, proteomics, and metabolomics studies of male infertility.
4. The role of Leukocytospermia in clinical management of male infertility.



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Special Issue