

Special Issue

Assisted Reproductive Technology: Recent Developments and Future Perspectives

Message from the Guest Editors

Fertility treatments have undergone a transformative shift since the introduction of assisted reproductive technology (ART), and the rapid evolution of ART over the last few decades stands as a remarkable achievement in restorative medicine on the global scale. This Special Issue focuses on the new trends, advancements, and innovations in ART techniques and procedures, encompassing various aspects, including testicular sperm retrieval, ovulation induction, sperm function and quality assessment, oocyte quality assessment, in vitro fertilization (IVF), intracytoplasmic sperm injection (ICSI), enhanced embryo selection techniques, preimplantation genetic testing (PGT), and recurrent pregnancy loss (RPL). Additionally, this Special Issue explores scientific breakthroughs shedding light on reproductive physiology, pathophysiology, endocrinology, and hormonal regulation, all of which can significantly affect ART's outcomes. Furthermore, it is timely and relevant to examine the current and prospective roles of artificial intelligence (AI) in shaping the landscape of ART.

Guest Editors

Dr. Hiva Alipour

Prof. Dr. Ole Bjarne Christiansen

Prof. Dr. Ulrik Schiøler Kesmodel

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Journal of Clinical Medicine
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcm@mdpi.com

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