

Special Issue

Current Trends and Future Challenges in Assisted Reproduction

Message from the Guest Editor

Infertility affects around 10–15% of couples worldwide, with a constantly growing trend in Western countries. Over the last decades, reproductive medicine has undergone a dramatic increase in several clinical and technological upgrades based on translational research discoveries.

In view of the presentation of current trends and future challenges in assisted reproduction, the aim of this Special Issue is to gather different and innovative perspectives for the treatment of human infertility, including both clinical and laboratory aspects. This includes the application of new protocols for ovarian stimulation, gamete and embryo culture and cryopreservation, embryo assessment via cutting-edge technologies such as time-lapse microscopy and artificial intelligence, as well as new and non-invasive applications of preimplantation genetic testing.

In this Special Issue, we would like to invite original clinical and basic research articles, meta-analyses and systematic reviews, aiming to update evidence on the future of assisted reproduction that embraces gynecological, andrological and embryological interests.

Guest Editor

Dr. Stefano Canosa

1. IIRMA Global Research Alliance, Livet, Via Tiziano Vecellio 3, 10126 Turin, Italy
2. Obstetrics and Gynecology 1U, Physiopathology of Reproduction and IVF Unit, Department of Surgical Sciences, Sant'Anna Hospital, University of Turin, 10126 Turin, Italy

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

mdpi.com/journal/

jpm





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About the Journal

Message from the Editor-in-Chief

Journal of Personalized Medicine is one of the few journals that covers the diverse areas involved in the field, including research at basic, translational, and clinical levels. It focuses on “omics”-level studies that seek to define the basis of interindividual variation in susceptibility for a disease, its prognosis or definition of clinical subsets, and response to therapy (pharmacogenomics). We are also interested in systems biology as it relates to interindividual variation, and research on new methodologies, informatics, and biostatistics, in the aforementioned areas.

Editor-in-Chief

Prof. Dr. Kenneth P.H. Pritzker

Department of Laboratory Medicine and Pathobiology, Department of Surgery, University of Toronto, 6 Queens Pk Crescent W.F, Toronto, ON M5S 3H2, Canada

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 25 days after submission; acceptance to publication is undertaken in 5.8 days (median values for papers published in this journal in the second half of 2025).