







an Open Access Journal by MDPI

Epigenetic Safety after Assisted Reproductive Technologies

Guest Editor:

Prof. Dr. Martine De Rycke

Center for Medical Genetics, University Hospital Brussels, 1090 Brussels, Belgium

Deadline for manuscript submissions:

closed (15 April 2023)

Message from the Guest Editor

Assisted reproductive technologies (ART) provide great benefits for many couples struggling with infertility problems. Although the vast majority of children born as a result of ART are healthy, an association between ART and epigenetic changes has been documented. Human and animal studies indicate that certain aspects of ART, such as hormonal stimulation or in vitro culture systems, may cause epigenetic deregulation during the periconceptional period of gamete maturation and early embryonic development, which may lead to phenotypic changes such as low birth weight or an increased prevalence of metabolic and cardiovascular disease later in adult life (the Developmental Origins of Health and Disease (DOHaD) concept).

Epidemiological studies in human also suggest that subfertility predisposes to epigenetic deregulation. As the use of ART increases worldwide, it is crucial to understand the mechanism(s) underlying the association between ART and epigenetics as this would allow for taking precautions in order to realize the safe and ethical use of ART.













an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

Why not consider *Genes* for your next genetics paper?

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank: JCR - Q2 (*Genetics & Heredity*) / CiteScore - Q2 (*Genetics*)

Contact Us