

Special Issue on Biomarkers in Reproductive Medicine

CALL FOR PAPERS

The concept of utility of a biomarker in clinical care is not new. In obstetrics the use of serum and ultrasound biomarkers to assess the risk of aneuploidy in the fetus is standard of care. The use of biomarkers in reproductive medicine is less developed. The number of targets and potential use of biomarkers is rapidly increasing. The science is outstanding and innovative. The breadth and the pace of new discovery are encouraging.

A biomarker in reproduction could be used to improve assessment of exposure (i.e., identification of aspects of both male and female aspects of infertility), identify differences in susceptibility (who may be best treated and under what conditions), predict outcome (which embryo should be transferred, or the location and viability of a gestation), and/or differentiate subgroups with potentially different etiologies of disease. However, much needs to be learned about the predicted significance of many of these proposed markers before any of these goals can be realized.

Extensive testing, validation, and modification need to be performed before a biomarker is demonstrated to have clinical utility. Education and understanding of the use and development of biomarkers is necessary to optimize its clinical utility and avoid misuse or overinterpretation. As more biomarkers are moved into practice, a better educated biomarker consumer will enhance the possibility that biomarkers will realize their great potential.

We invite investigators to contribute to the present special issue, with research articles, review articles, and clinical studies that will stimulate the understanding of approaches on biomarkers in reproductive medicine.

All submitted papers will undergo independent peer-review process.

Potential topics include but are not limited to the following:

- ▶ Advances in genetics and molecular features of reproductive biomarkers
- ▶ Clinical role of biomarkers measurement
- ▶ Development of different methods using noninvasive samples
- ▶ Gene-diet/lifestyle interaction on reproductive medicine biomarkers
- ▶ Preimplantation Genetic Diagnosis
- ▶ Noninvasive prenatal diagnosis based on fetal DNA circulating in maternal blood

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/dm/breme/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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