

Special Issue

Prenatal Diagnosis: Current Challenges and Future Perspectives

Message from the Guest Editors

Prenatal diagnosis has undergone a major transformation in recent decades, evolving from basic ultrasound and invasive procedures to highly sophisticated molecular and imaging technologies. The introduction of non-invasive prenatal testing, advances in genomic sequencing, and improvements in imaging modalities have greatly expanded our ability to detect fetal anomalies and genetic conditions earlier and more accurately. The aim of this Special Issue is to provide a comprehensive platform for discussing both the achievements and the unresolved challenges in prenatal diagnosis. Topics of interest include (but are not limited to) the following:

- Advances in prenatal imaging and molecular diagnostics;
- Applications of genomics, epigenomics, and proteomics in early fetal assessment;
- Ethical, social, and psychological dimensions of prenatal testing;
- Artificial intelligence and digital health tools in diagnostic workflows;
- Clinical translation and global access disparities;
- Future directions for personalized and precision prenatal medicine.

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