



## Application of 3D-Imaging in Diagnosis

Guest Editor:

### Message from the Guest Editor

#### Dr. Ritsuko Kimata Pooh

LLB Fetal Diagnostic Center, Fetal  
Brain Center, Clinical Research  
Institute of Fetal Medicine PMC,  
1-24, Uehommachi, 7, Tennoji,  
Osaka 543-0001, Japan

Deadline for manuscript  
submissions:

**closed (30 April 2022)**

Prenatal imaging diagnostic technologies contain sonography, magnetic resonance imaging (MRI), and computed tomography (CT). Conventionally, prenatal diagnostic imaging has been performed on a two-dimensional planar image. Owing to the 3D-imaging approach, however, it has been possible to demonstrate more comprehensive three-dimensional structures and make accurate diagnoses of congenital fetal diseases in utero. Fetal sonographic imaging has been amazingly advanced in recent decades, and various congenital anomalies have been visualized from a very early stage. In early pregnancy, sonoembryology has demonstrated small embryos and fetuses well. In mid-pregnancy, detailed sonography has visualized fetal organs' morphology and vascular structures. It is no exaggeration to say that recently advanced sonography significantly contributes to the elucidation of previously unknown fetal neurology.

The purpose of this Special Issue is to cover the latest information on various prenatal 3D-imaging diagnostics by collecting articles that make full use of easy-to-understand illustrations, images, and pictures.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Andreas Kjaer

Department of Clinical  
Physiology, Nuclear Medicine &  
PET National University Hospital,  
Rigshospitalet, University of  
Copenhagen, Blegdamsvej 9, DK-  
2100 Copenhagen, Denmark

## Message from the Editor-in-Chief

You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

## 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, PMC, Embase, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Medicine, General and Internal) / CiteScore - Q2 (Internal Medicine)

## Contact Us

---

*Diagnostics* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/diagnostics](http://mdpi.com/journal/diagnostics)  
[diagnostics@mdpi.com](mailto:diagnostics@mdpi.com)  
[X@diagnostic\\_mdpi](https://twitter.com/diagnostic_mdpi)