

## Special Issue

# Medical Microwave Radiometry for R&D and Practical Applications in 2025

### Message from the Guest Editor

This Special Issue of *Diagnostics* is dedicated to medical microwave radiometry for R&D and its practical application. Unlike infrared thermography, which visualizes the temperature of the skin, microwave radiometry (MWR) is based on the measurement of the tissue's own electromagnetic radiation in the microwave range. It allows for non-invasive detection of thermal anomalies in internal tissues at a depth of several centimeters. MWR can be used for non-invasive monitoring of the temperature of internal tissues during hypo- and hyperthermia. It is known that the temperature of a malignant tumor depends on its growth rate; therefore, the temperature of the tumor is a natural indicator of the aggressiveness of the tumor. Diseases associated with inflammatory processes in internal tissues are subjects of research in combination with MWR. In addition, the technology can be used not only for diagnostics but also to monitor the course of the treatment of diseases that are accompanied by changes in the temperature of internal tissues.

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