Special Issue

Technologies in the Diagnosis of Lung Diseases

Message from the Guest Editor

In recent decades, great advances have been made regarding the treatment of various lung diseases, but considerable heterogeneity in the treatment response remains present. In this context, precision medicine aims to account for inter-individual variability and provide a more targeted approach to patient care, enhancing the accuracy of diagnosis, the prediction of prognosis, and the efficacy of treatment. Physiological measurements, medical imaging, and measurements obtained from biological samples from the cellular to the molecular level represent relevant biomarkers. Advances in radiology and image processing techniques have enhanced the diagnostic possibilities in terms of both sensitivity and non-invasiveness. The development of wearable devices has applicative prospects for the real-time assessment and monitoring of respiratory function. Additionally, machine learning, when applied to multi-omics features, has introduced the possibility of screening for the potential biomarkers of susceptibility.

Guest Editor

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