

Special Issue

Multidisciplinary Approaches to Oral Cancer Diagnosis

Message from the Guest Editor

The diagnosis of oral cancer requires a multidisciplinary approach integrating clinical, radiological, histopathological, molecular, and technological expertise for accurate detection, staging, and treatment planning. Early detection begins with thorough oral exams and adjunctive tools like toluidine blue staining, while definitive diagnosis relies on histopathology. Radiological imaging—CT, MRI, and PET—assesses tumour extent and metastasis, enabling precise surgical planning. Molecular and genetic analyses, such as gene expression profiling and next-generation sequencing, help stratify patients, identify biomarkers, and tailor personalized therapies. The integration of artificial intelligence and machine learning further enhances diagnostic accuracy by analysing large datasets and detecting subtle patterns in imaging and risk assessment. This collaborative, multidisciplinary paradigm not only improves diagnostic precision but also supports personalized treatment strategies, ultimately enhancing patient outcomes. We welcome innovative contributions that integrate AI with established diagnostic methods to advance oral cancer diagnosis and pathology.

Guest Editor

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