



## Clinical Applications of Biospectroscopy and Imaging

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### Message from the Guest Editor

Biospectroscopy involves an emerging inter-disciplinary approach with the potential to revolutionise healthcare diagnosis and screening. The potential for application in clinical arenas ranging from point-of-care primary or triage settings to the implementation of an intra-operative tool to a more complex imaging modality is vast. The range of clinical applications includes, but is not limited to, cancer diagnosis or imaging, characterisation of neurodegenerative disease, bone integrity analysis, antibiotic resistance in bacteria, and regenerative medicine. In various settings and requirements, spectrochemical methods may be employed that range from FTIR to Raman spectroscopy. This then leads to the necessity for the appropriate handling of spectral-derived datasets, be it for exploratory analysis, classification, feature extraction for prediction or imaging. Such complex inter-disciplinarity requires cross-talk between experts in different fields of expertise. In this Special Issue, the current knowledge as well as future perspectives in the contributing fields of biospectroscopy approaches in screening, diagnosis, and imaging in a range of clinical settings will be presented.





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