



Raman Spectroscopy and Machine Learning in Human Disease

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Raman spectroscopy (RS) can provide an information on the chemical composition of tested samples at the molecular level and help to track even the smallest changes in the chemical composition of tested tissues and biofluids. Currently, advanced machine learning techniques pave the way for RS to overcome the described problems and become a routinely used approach in clinical practice. This Special Issue of the International Journal of Molecular Sciences focuses on the molecular origin of Raman spectra and RS applications in molecular medicine. Translational studies of RS to real clinical fields are welcomed and may include the application of different RS modalities and different approaches of advanced machine learning techniques for the determination of the presence and severity of human diseases. Potential topics of the Special Issue may include (but are not limited to) conventional RS, surface-enhanced RS, and other RS applications, as well as machine learning methods such as principal component analysis, projection on latent structures, neural networks, decision trees, and their numeral modifications.

Dr. Ivan Bratchenko
Guest Editor



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Message from the Editor-in-Chief

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