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Title:Spectroscopic study of human teeth and blood from visible to terahertz frequencies for clinical diagnosis of dental pulp vitality

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Abstract:Transmission spectra of wet human teeth and dentin slices, together with blood of different flow rates were investigated. The measurements carried out over a wide spectral range, from visible light down to terahertz radiation. The results make it possible to find the optimum light frequency for an alloptical determination of pulpal blood flow and, consequently, for clinically diagnosis of tooth vitality. © Springer Science+Business Media, LLC 2012.

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