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Line-scanning reflectance confocal microscopy of human skin: comparison of full-pupil and divided-pupil configurations.

Gareau DS, Abeytunge S, Rajadhyaksha M.; Opt Lett. 2009 Oct 15;34(20):3235-7. DOI: 10.1364/OL.34.003235.

ABSTRACT

Line-scanning, with pupil engineering and the use of linear array detectors, may enable simple, small, and low-cost confocal microscopes for clinical imaging of human epithelial tissues. However, a fundamental understanding of line-scanning performance within the highly scattering and aberrating conditions of human tissue is necessary, to translate from benchtop instrumentation to clinical implementation. The results of a preliminary investigation for reflectance imaging in skin are reported.