

Non-invasive technique may help detect skin and other cancers

July 6 2015

Researchers have developed a non-invasive technique that allows clinicians to accurately detect various forms of skin cancer.

The current clinical "gold standard" non-invasive technique, called dermoscopy, is a highly subjective method. But by using what's called Raman spectroscopy, investigators found that [malignant melanoma](#) could be detected with an accuracy of 91% and non-melanoma skin cancers could be detected with accuracy between 73% and 85%.

"The non-invasive and label-free nature of Raman spectroscopy enables the application in various medical fields. The method could be applied through an endoscope in order to reach internal organs. Besides the detection of [skin cancer](#), applications to detect cancer of the urinary bladder, esophagus or cervix have been shown," said Dr. Johannes Schleusener, co-author of the *Experimental Dermatology* article.

More information: Schleusener, J., Gluszczynska, P., Reble, C., Gersonde, I., Helfmann, J., Fluhr, J. W., Lademann, J., Röwert-Huber, J., Patzelt, A. and Meinke, M. C. (2015), In vivo study for the discrimination of cancerous and normal skin using fibre probe-based Raman spectroscopy. *Experimental Dermatology*. [DOI: 10.1111/exd.12768](#)

Provided by Wiley

Citation: Non-invasive technique may help detect skin and other cancers (2015, July 6) retrieved 25 April 2024 from

<https://medicalxpress.com/news/2015-07-non-invasive-technique-skin-cancers.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.