



# SPECTROSCOPY

## Tech Pulse

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PHOTONICS MEDIA

November 2015

Spectroscopy Tech Pulse is a special edition newsletter from Photonics Media covering key developments in spectroscopy technology.

### Montana Invests in Optics for Agriculture

More than \$2.8 million in state funding aims to kick hyperspectral imaging and other optical technologies into hyperdrive.

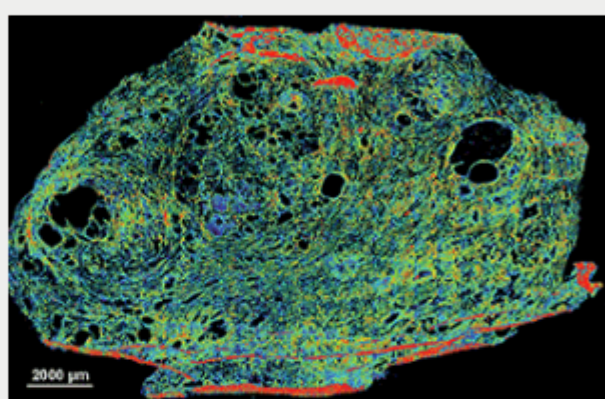


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### Using QCLs for MIR-Based Spectral Imaging — Applications in Tissue Pathology

A quantum cascade laser (QCL) microscope allows for fast data acquisition, real-time chemical imaging and the ability to collect only spectral frequencies of interest. Due to their high-quality, highly tunable illumination characteristics and excellent signal-to-noise performance, QCLs are paving the way for the next generation of mid-infrared (MIR) imaging methodologies.

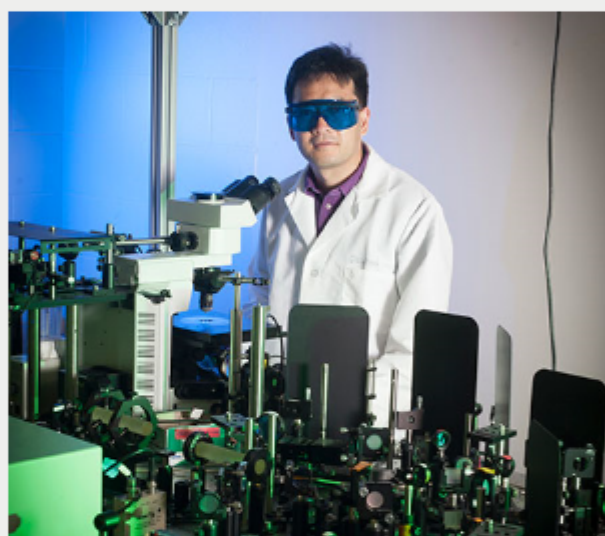


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### Efficient Spectroscopic Imaging Demonstrated In Vivo

Although optical spectroscopy is routinely used study molecules in cell samples, it is currently not practical to perform in vivo. Now, a converted Raman spectroscopy system has been used to reveal the chemical composition of living tissues in seconds.



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### Broadband Laser Aimed at Cancer Detection

Covering a wide swath of the mid-infrared region, a new laser system offers greater spectral sensitivity.



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#### Admesy BV

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