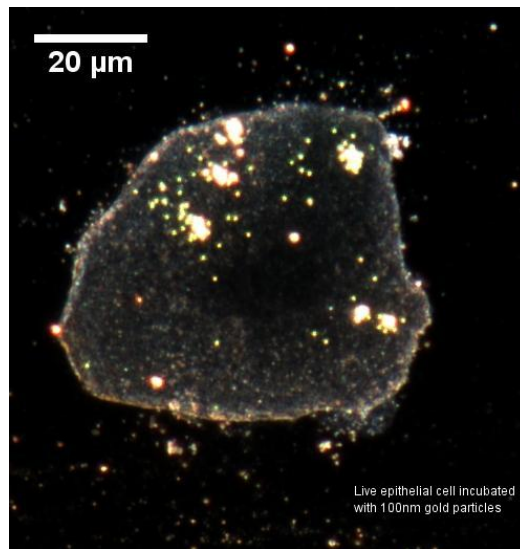




Nano-scale Hyperspectral Imaging

The images below are representative of a typical application for the Cytoviva VNIR Hyperspectral Imaging System in the area of nano-bio research. This application illustrates the ability of the Cytoviva system to quantify the presence of 100nm gold nano-particles incubated with a live epithelial cell.

This data was captured through the integrated use of the high contrast Cytoviva Microscope, which creates the image; The high signal-to-noise Cytoviva Hyperspectral Imager, which captures the spectral image and the Cytoviva Hyperspectral Image Analysis Reporting Software.



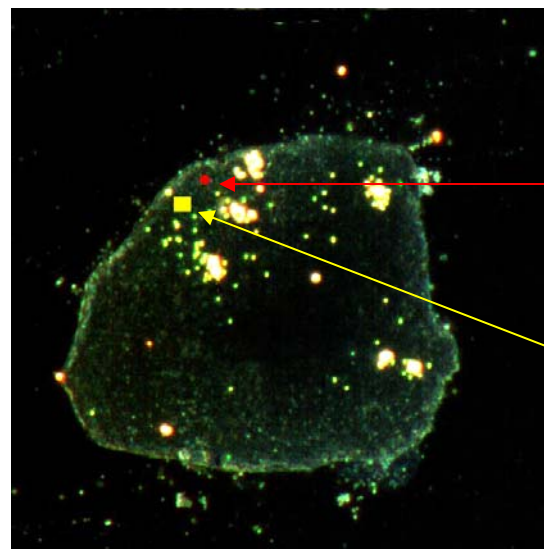
Optical Image

Live epithelial cell incubated with gold nano-particles; Imaged with Cytoviva Microscope System, 40x objective and Dage MTI Excel¹⁶ color digital camera. Note the visible gold nano-particles.

For more information contact us:

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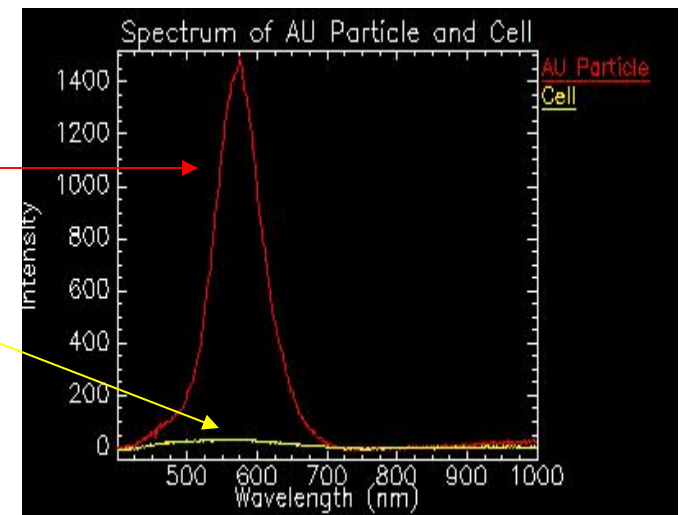


Hyperspectral Image Scan

Live epithelial cell incubated and gold nano-particles: Image scanned with Cytoviva microscope system, 40x objective and Cytoviva Hyperspectral Imaging System.

Red colored area in the sample represents where gold nano-particles are visible.

Yellow colored area in the sample represents an area in the cell where gold particles are not visible.



Spectral Plot

Spectral plot of light scattering from the red colored area of the sample where gold nano-particles are visible. This spectral signature is consistent with previously measured spectra of these nano-particles.

Spectral plot of light scattering from the yellow colored area of the cell sample, where gold nano-particles are not visible.