

## **Label free imaging of nanoparticles in cells with Enhanced Darkfield Hyperspectral Microscopy**

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The ability to observe and to characterize nanoparticles without any fluorescent labeling or other sample preparation in a wide range of biological environments is critical in a wide range of biological research field such as nanotechnology -drug delivery research, nano toxicology research and nanomaterials synthesis research. The enhanced darkfield hyperspectral microscopy enables in easy and effective way, real time observation of nanoparticle uptake in live or fixed cells and in ex vivo tissue sections. The principles of Cytoviva' patented enhanced darkfield hyperspectral microscopy, specifically designed to enable rapid, label free imaging of nanoparticles in biological or materials based environments will be presented. Examples of nanoparticle interactions with live cells, tissue and other materials will be shown.