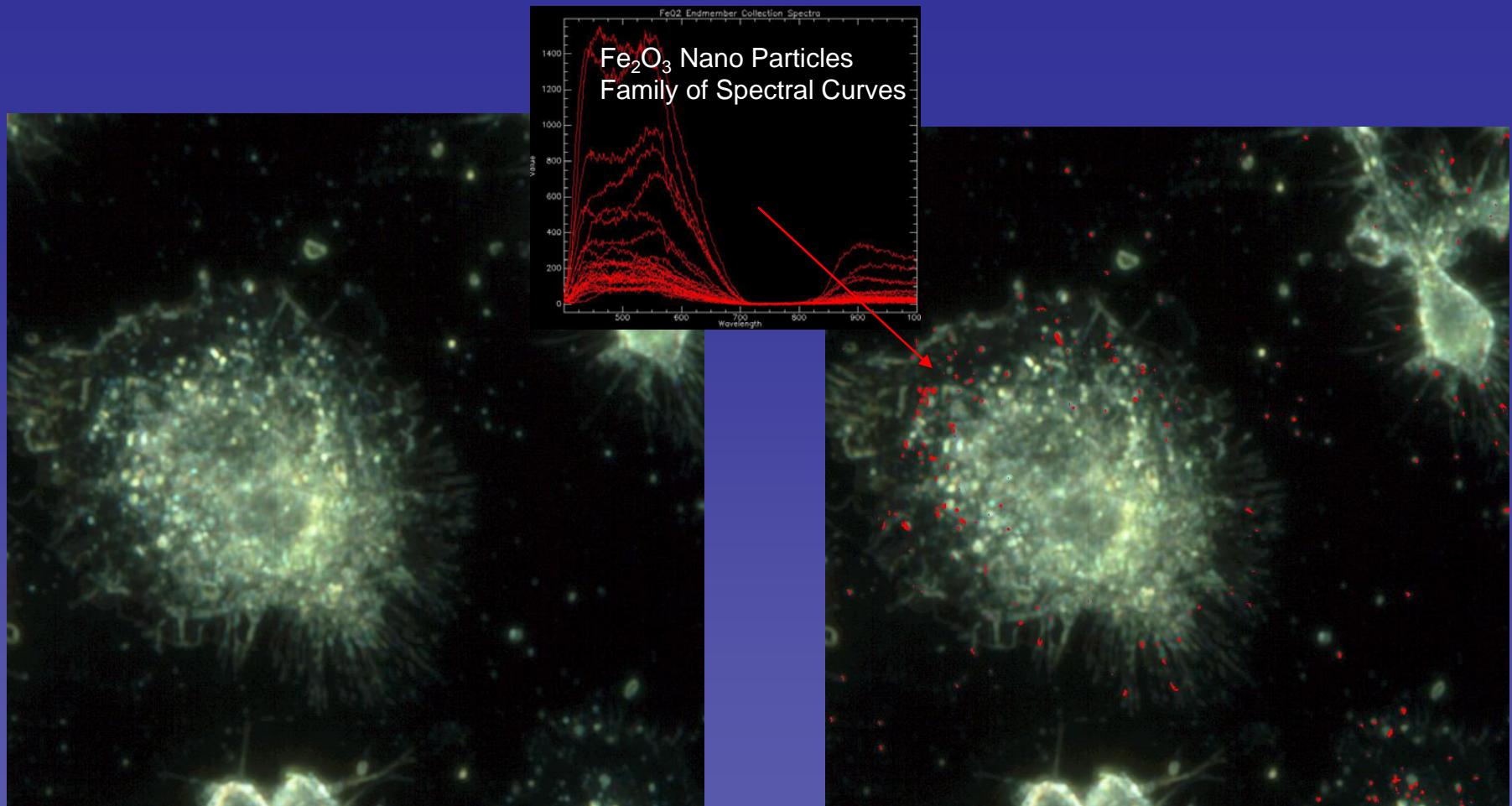


Fe_2O_3 Nano Particles -Magnetic Imaging-

CytoViva[®]

Nano-scale Microscopy & Hyperspectral Imaging



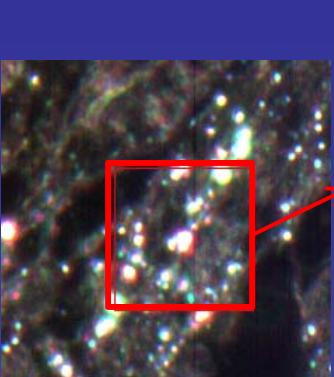
Macrophage cells incubated with Fe_2O_3 NP
Hyperspectral Scanned Image:
40x objective

Mapping overlay of Macrophage cells
incubated with Fe_2O_3 NP: Red maps each pixel
matching the spectra of Fe_2O_3 NP

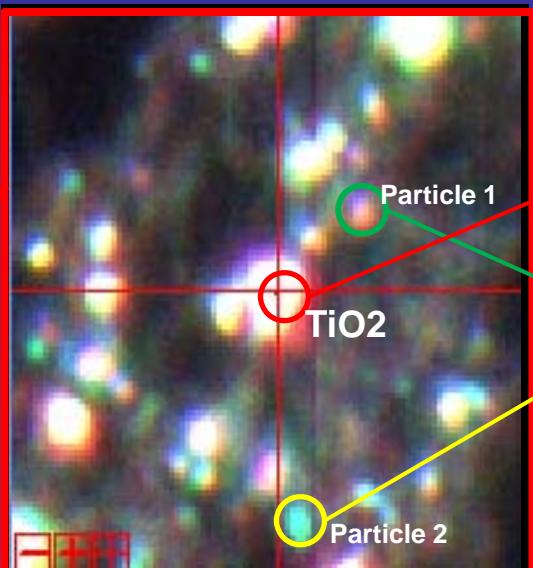
Nanotox Investigations: TiO₂ & Nanoparticles in tissue



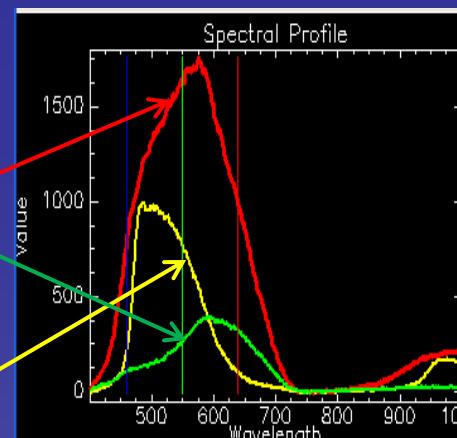
Nano-scale Hyperspectral Imaging



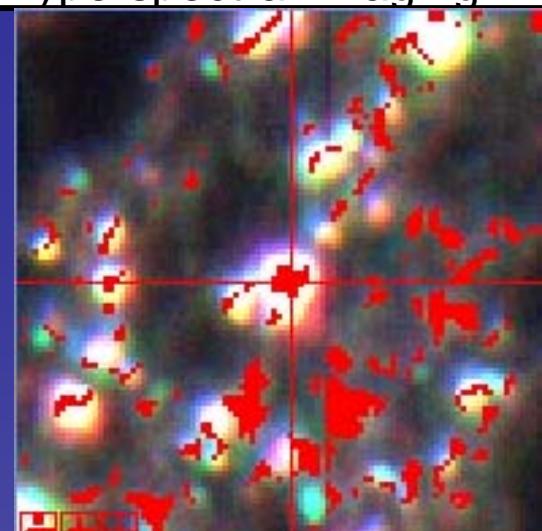
TiO₂ in Tissue
-Original Image-



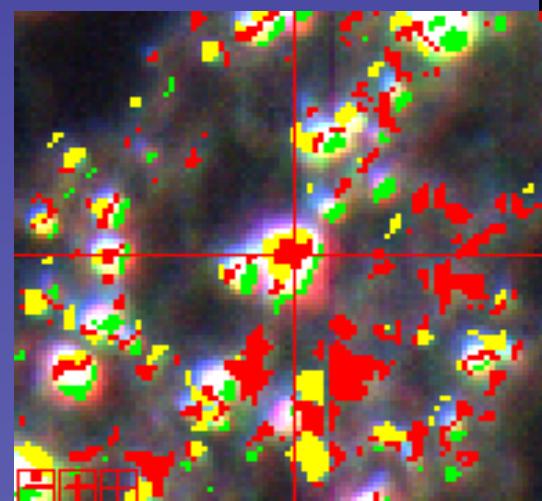
TiO₂ & 2 Nanoparticles
-Zoom Window-



Spectral curves of TiO₂ and
Nanoparticles



TiO₂ Only Mapped in RED



TiO₂ and unknown Nanoparticles spectrally scanned. Stored spectra mapped in each 30 nm pixel on the Original Image to confirm location and concentration.

TiO₂ &
2 Nanoparticles Mapped
(RED, YELLOW & GREEN)