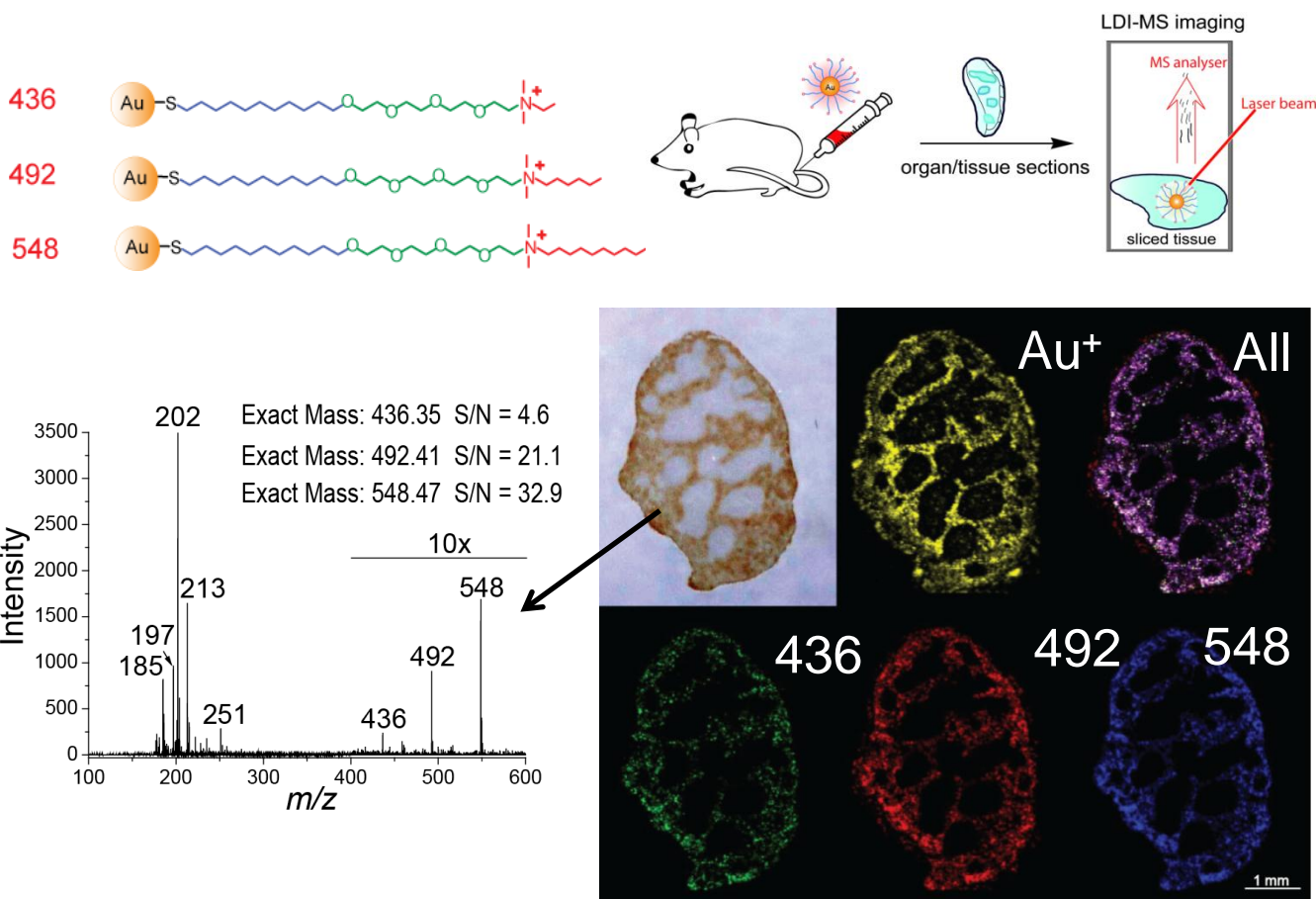


Multiplexed Imaging of Nanoparticles in Tissues

To more fully understand the biodistributions and potential toxicity of nanoparticles (NPs) that are released into the environment, it is essential to monitor the spatial distributions of NPs *in vivo*. To this end CHM scientists have developed an approach based on laser desorption/ionization mass spectrometry (LDI-MS) to image NPs in tissues. Because MS is used as the readout for this imaging approach, multiple NPs can be imaged simultaneously, which facilitates the side-by-side comparison of different NP types. Results indicate that NPs can remain intact in animals and that biodistribution information can be directly obtained.



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