







Available Imaging Tools































X-ray Fluorescence Molecular CT Imaging

M. Balazova, Y. Kuang, G. Pratx, L. Xing, X-ray Fluorescence Molecular CT Imaging, IEEE Trans Med Ima., 2012























Proton Fluorescence (In collaboration with Hokkaido Unv.)























QD710-RGD peptide

Modification of QD710-Dendron with a dimeric RGD peptide, RGD₂. B: Excellent solubility and monodisperity in aqueous solution for the QD710-Dendron (left) and QD710-RGD₂ (light). C: TEM image of QD710-RGD₂. D: UV absorbance and NIRF of the QD710-Dendron (bottom) and QD710-RGD₂ (top). In vivo NIRF imaging of QD710-RGD₂ (active targeting, E) and QD710-Dendron (passive targeting, F) in mice bearing SKOV3 tumor (Cheng's lab).







SUMMARY

- Interaction of X-ay with endogenous or exogenous media provides the basis for highly sensitive X-ray molecular imaging.
- Highly sensitive XFCT is feasible.
- XFCT and XLCT are two examples of X-ray molecular/physiological imaging that are being developed at Stanford.