Correlative Light and Electron Microscopy (CLEM) from an Ultrathin Section of immunolabeling (Amylase-labelled antibody) by QDs (streptavidin-conjugated QD655, red) showing localization in secretory granules with high-probe density. The overlay image is composed of transparent confocal microscopy blended with an EM image of the corresponding area.

Live Cell imaging of T84 human colon carcinoma exhibiting cells growth.

FESEM wide area scan of a prostate tissue correlated with CT and LM imaging. The growing endothelial sprouts emanating from large veins may bring the vasculature into closer contact the tumour cells.

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We have Honours projects available where you will learn
(i) nanoparticle-based immunocytochemistry
(ii) correlation of different imaging modalities to generate research data from pathology biopsy and surgical tissue samples.

3-D renderings of veins in close proximity to the tumour front showing growing endothelial sprouts.

Data Analysis

FESEM (GeminiSEM 300)