Explanation movies

Movie PNAS_movie5

3D reconstruction of the SHREAD platform for paracrine delivery. Detailed visualization of vasculature (red), transduced cells (cyan), and secreted antibody (yellow) feature extraction using IMARIS from confocal data in a representative Ad-TZB-treated mouse at day 11. The video shows segmentation and feature demonstration on a subset of the whole dataset. Transduced cells and antibody can be seen distributed throughout the imaged section. Our PACT-confocal imaging enables reliable feature extraction down to the surface morphology for vasculature. The experiment was performed on 9 mice total for all samples.

Movie PNAS_movie1 to 4

Reconstruction of nuclei, infected cells, secreted antibody and vasculature: Visualization of the reconstruction procedure of raw confocal imaging data in IMARIS. The videos show full-resolution reconstruction of the 4 features quantified in paracrine delivery experiments: nuclei (**Movie S1**), vasculature (**Movie S2**), transduced cells (**Movie S3**), and secreted antibody (**Movie S4**). All features except for antibodies were rendered for visualization using the surfaces tool, while antibodies were rendered using the spot detector; however, for quantification, all features were measured using the surfaces tool (**Figures 6-7, S9**). The experiment was performed on 9 mice total for all samples.