

Jaqaman, K, H Kuwata, N Touret, R Collins, WS Trimble, G Danuser & S Grinstein. 2011. Cytoskeletal Control of CD36 Diffusion Promotes Its Receptor and Signaling Function. *Cell* **146**:593-606.

Legends to Supplemental Movies & Table

[Movie S1. Cy3-Immunolabeled CD36 in an Unperturbed Macrophage, Related to Figure 2.](#) Movie corresponds to static trajectories in [Figure 2A](#). Image size: 17 μm \times 17 μm . Sampling rate: 10 Hz. Cropped area: perinuclear region. Left: Raw movie. Right: Overlaid trajectories. Open white circles indicate detected and tracked receptors, cyan asterisks indicate closed trajectory gaps, green diamonds indicate splitting events, and yellow diamonds indicate merging events. Trajectories are color coded randomly by looping through seven colors to facilitate the visual distinction between neighboring tracks.

[Movie S2. Zoom-in Showing Merging and Splitting between Cy3-Immunolabeled CD36, Related to Figure 2.](#) Movie corresponds to static trajectories in [Figure 2D](#). Note that only the trajectories of the receptors of interest are shown explicitly in this movie. Image size: 5.5 μm \times 7.5 μm . Sampling rate: 10 Hz. Left: Raw movie. Right: Overlaid trajectories. Open purple circles indicate the detected and tracked receptors of interest, open green circles indicate their appearance, and open yellow circles indicate their disappearance. Cyan asterisks indicate closed gaps. Green diamonds indicate splitting events, and yellow diamonds indicate merging events.

[Movie S3. Zoom-in Showing CD36 Linear Movement Overlaid on Microtubules, Related to Figure 6.](#) CD36, labeled with Qdots, shown as cyan spots. Microtubules, visualized using tubulin-GFP, shown in red. Movie corresponds to static trajectories in [Figure 6C](#), inset 1. Note that only the trajectories of the receptors of interest are shown explicitly in this movie. Image size: 2.3 μm \times 4.6 μm . Sampling rate: 10 Hz. Open white circles indicate the detected and tracked receptors of interest, cyan asterisks indicate closed gaps, and pink tails show the trajectories from the beginning until the current frame.

[Movie S4. Zoom-in Showing Unconventional CD36 Movement Overlaid on Microtubules that Happen to Form a Junction, Related to Figure 6.](#) CD36, labeled with Qdots, shown as cyan spots. Microtubules, visualized using tubulin-GFP, shown in red. Movie corresponds to static trajectory in [Figure 6C](#), inset 2. Note that only the trajectory of the receptor of interest is shown explicitly in this movie. Image size: 1.4 μm \times 1.4 μm . Sampling rate: 10 Hz. Open white circles indicate the detected and tracked receptor of interest, cyan asterisks indicate closed gaps, and pink tails show the trajectory from the beginning till the current frame.

[Table S1. oxLDL Uptake versus CD36 Density after Drug Treatment, Relative to Unperturbed Control, Related to Figure 7.](#) In all cases, oxLDL uptake was reduced to a larger extent than would be expected from density reduction alone. Comparing the CD36 density median to the oxLDL uptake median via the Wilcoxon rank-sum test yielded p values < 0.1 in all cases.