

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Oblique illumination live cell imaging of a HUVEC expressing the membrane marker GFP-F (inverted contrast) infected by Nm-iRFP. A single focal plan is shown. Plasma membrane protrusions from the host cell are visible as discrete bright dots surrounding the bacterial bodies. Scale bar, 10 μm . Representative of several events in $n>10$ independent experiments.

File Name: Supplementary Movie 2

Description: Oblique illumination live cell imaging of a HUVEC expressing the membrane marker GFP-F and LifeAct-mCherry infected by Nm-iRFP. A single focal plan is shown. Plasma membrane protrusions from the host cell are visible as discrete bright dots surrounding the bacterial bodies. No accumulation of LifeAct-mCherry is observed. Scale bar, 2 μm . Representative of several events in $n=2$ independent experiments.

File Name: Supplementary Movie 3

Description: Oblique illumination live cell imaging of a micropatterned HUVEC expressing the membrane marker PM-EGFP (inverted contrast) and infected by Nm-iRFP. A single focal plan is shown. Plasma membrane protrusions can be followed over two bacterial divisions. Scale bar, 10 μm . Representative of $n=2$ independent experiments.

File Name: Supplementary Movie 4

Description: Oblique illumination live cell high speed imaging of a HUVEC expressing GFP-F (inverted contrast) infected with a pre-formed bacterial aggregate of Nm-iRFP (not visible on the movie, please refer to Fig. 2). A single focal plan is shown. The plasma membrane protrusions barely move over 10 seconds, except at the aggregate periphery. Scale bar, 5 μm . Representative of several events in $n>10$ independent experiments.

File Name: Supplementary Movie 5

Description: Oblique illumination live cell high speed imaging of a HUVEC expressing GFP-F (inverted contrast) infected with wild-type Nm-iRFP bacteria. In this experimental setting, only one channel can be recorded at high speed. The position of 3 bacteria, denoted by a yellow ellipse, was assessed before recording of the GFP-F channel. Plasma membrane protrusions from the host cell are visible as discrete bright dots. Scale bar, 2 μm . Representative of several events in $n=10$ independent experiments.

File Name: Supplementary Movie 6

Description: Oblique illumination live cell high speed imaging of a HUVEC expressing GFP-F and treated for 20 min with 100nM cytochalasin D (inverted contrast) infected with Nm-iRFP bacteria. In this experimental setting, only one channel can be recorded at high speed. The position of 2 bacteria, denoted by a yellow ellipse, was assessed before recording of the GFP-F channel. Plasma membrane protrusions from the host cell are visible as discrete bright dots. Scale bar, 2 μm . Representative of several events in $n=3$ independent experiments.

File Name: Supplementary Movie 7

Description: Oblique illumination live cell high speed imaging of a HUVEC expressing GFP-F (inverted contrast) infected with pilT-iRFP bacteria which are deficient for T4P retraction. In this experimental setting, only one channel can be recorded at high speed. The position of 2 bacteria, denoted by a yellow ellipse, was assessed before recording of the GFP-F channel. Plasma membrane protrusions from the host cell are visible as discrete bright dots. Scale bar, 2 μm . Representative of several events in n=3 independent experiments.