Supplemental Materials

Molecular Biology of the Cell

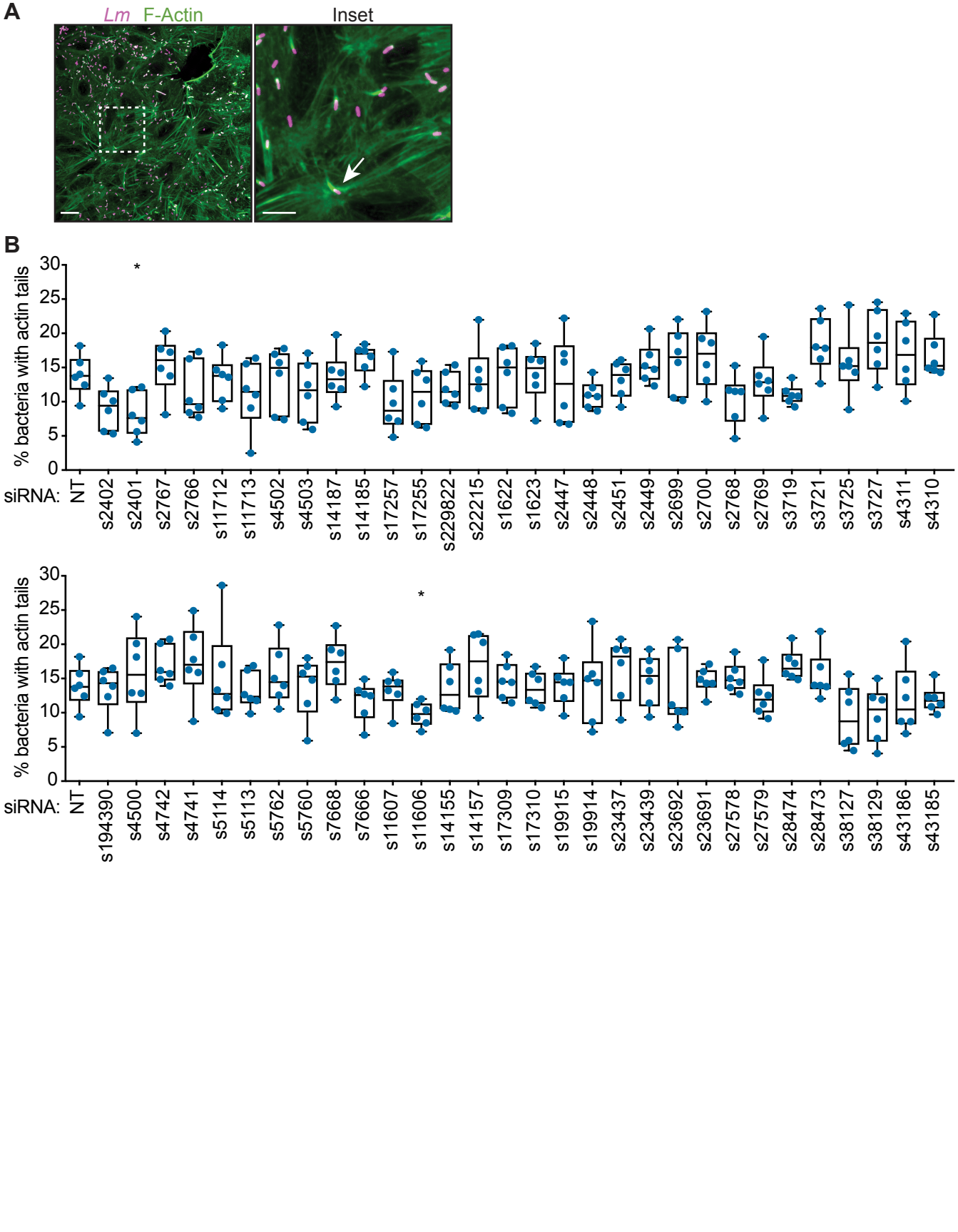
Sanderlin et al.

Figure S1. Secondary RNAi screen reveals host genes that affect actin-based motility. (A) Phalloidin-stained samples used to measure the frequency of TagBFP-expressing *L. monocytogenes* (magenta) with actin tails (green, see arrows). Scale bar, 10 μm (inset, 5 μm). (B) Pooled data from two biological replicates of the screen. Each dot represents the average frequency of bacteria with actin tails per well. 3 wells/siRNA were done in each run of the screen. Significance determined relative to the NT siRNA control using a Kruskal-Wallis ANOVA with an uncorrected Dunn's test. For visibility, the data in (B) are split into two graphs and the NT data duplicated. *p < 0.05, **p < 0.01, ***p < 0.001, ****p < 0.0001.

Figure S2. Secondary RNAi screen reveals host genes reduce host monolayer integrity. (A, B) Phalloidin-stained samples were imaged (left) and then a binary mask was applied (right) to quantify the percentage of surface area covered by cells (i.e. % confluency) from intact (A) and disrupted (B) monolayers. Scale bar, 10 μm. (C) Pooled data from two biological replicates of the screen. Each dot represents the average percentage of confluency per well. 3 wells/siRNA were done in each run of the screen. Significance determined relative to the NT siRNA control using a Kruskal-Wallis ANOVA with an uncorrected Dunn's test. For visibility, the data in (C) are split into two graphs and the NT data duplicated. *p < 0.05, **p < 0.01, ***p < 0.001, ****p < 0.0001.

Table S1. Primary siRNA screen results

Table S2. List of siRNAs used in the RNAi screens


A
Lm F-Actin
Inset
B
% bacteria with actin tails
siRNA:
NT
s2402
s2401
s2767
s2766
s11712
s11713
s4502
s4503
s14187
s14185
s17257
s17255
s229822
s22215
s1622
s1623
s2447
s2448
s2451
s2449
s2699
s2700
s2768
s2769
s3719
s3721
s3725
s3727
s4311
s4310
% bacteria with actin tails
siRNA:
NT
s194390
s4500
s4742
s4741
s5114
s5113
s5762
s5760
s7668
s7666
s11607
s11606
s14155
s14157
s17309
s17310
s19915
s19914
s23437
s23439
s23692
s23691
s27578
s27579
s28474
s28473
s38127
s38129
s43186
s43185

A
Original (F-actin)
Binary
B
Original (F-actin)
Binary
C
% confluency
100
80
60
40
20
0
siRNA:
NT
s2402
s2401
s2767
s2766
s11712
s11713
s4502
s4503
s14187
s14185
s17257
s17255
s229822
s22215
s1622
s1623
s2447
s2448
s2451
s2449
s2699
s2700
s2768
s2769
s3719
s3721
s3725
s3727
s4311
s4310
% confluency
100
80
60
40
20
0
siRNA:
NT
s194390
s4500
s4742
s4741
s5114
s5113
s5762
s5760
s7668
s7666
s11607
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