

Supporting Information for:

TLR4-Independent Effects of LPS Identified Using Longitudinal Serum Proteomics

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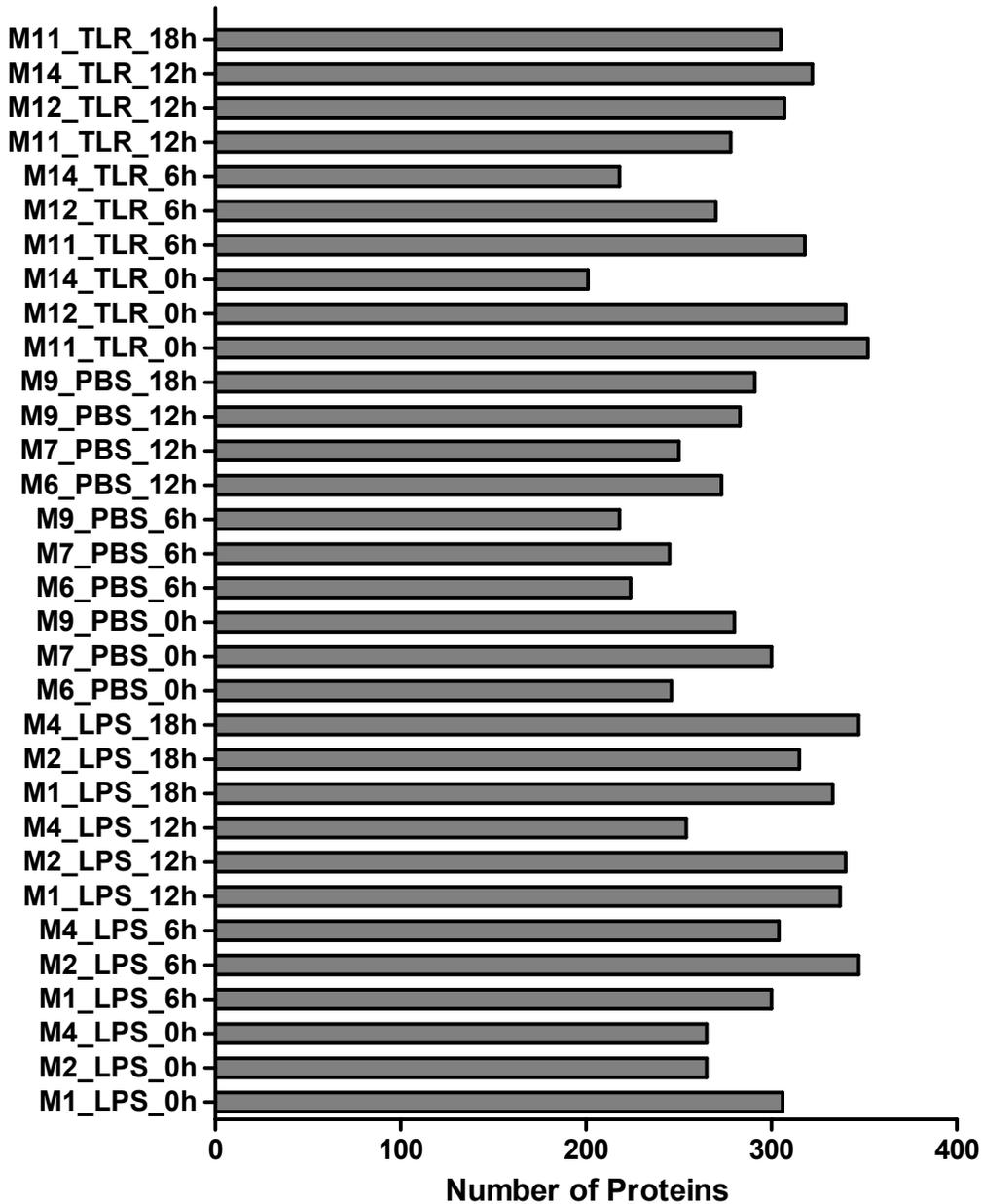
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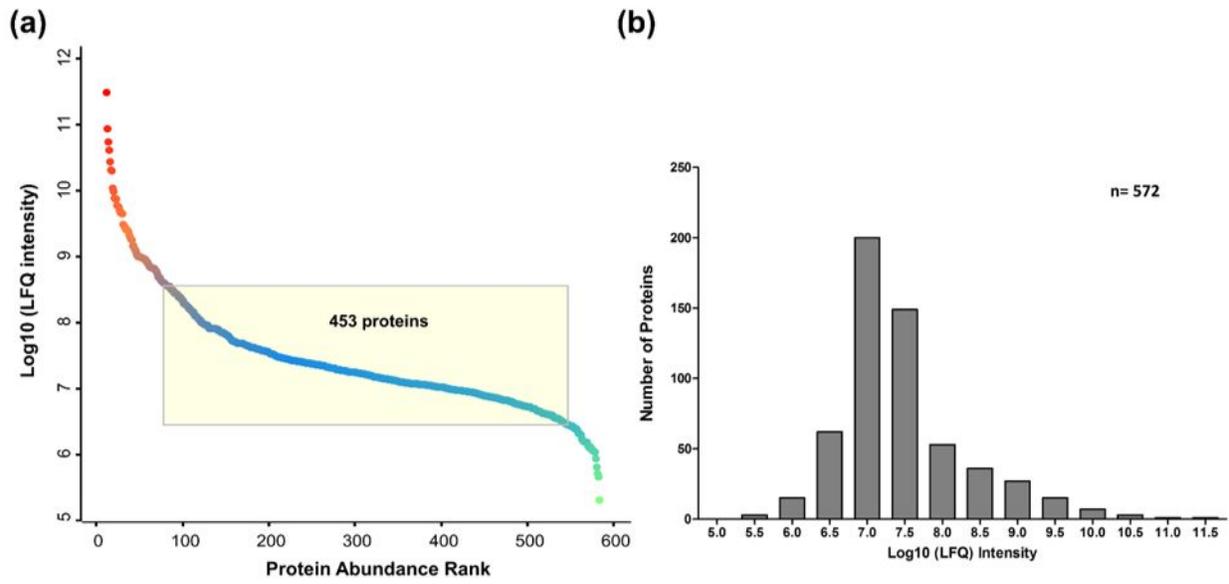
Supplemental Table 1. Summary of 32 biologic samples each of which was run in technical duplicate.

Mouse Strain	Injection Innoculum	Timepoint	Serum Samples
WT C57BL6	PBS	0 hr	3
		6 hr	3
		12 hr	3
		18 hr	1
WT C57BL6	30 mg/kg <i>E. coli</i> LPS	0 hr	3
		6 hr	3
		12 hr	3
		18 hr	3
TLR4 ^{-/-} C57BL6	30 mg/kg <i>E. coli</i> LPS	0 hr	3
		6 hr	3
		12 hr	3
		18 hr	1

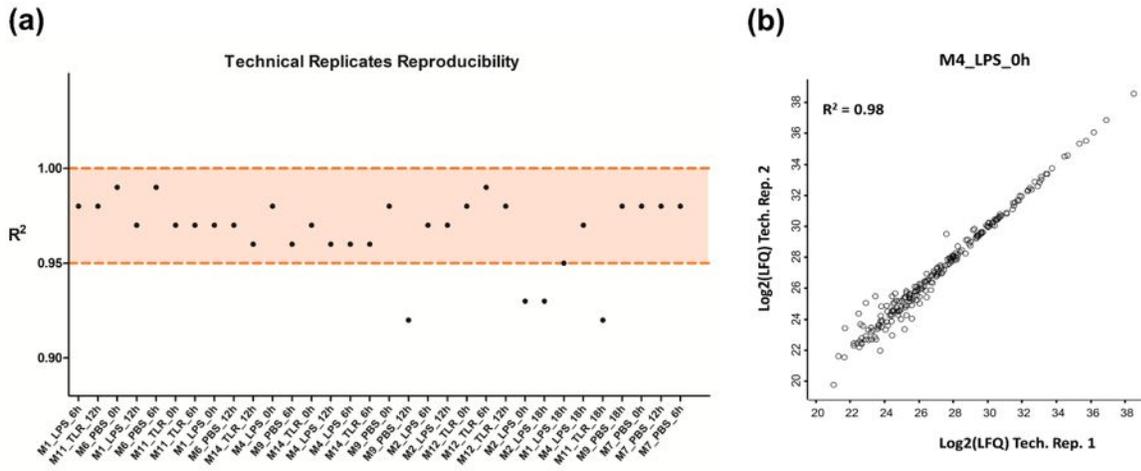
Supplemental Figure 1. The number of proteins identified for three mouse groups. A detailed view of number of protein identified for each biological replicate from three groups (PBS-WT, LPS-WT, and LPS-TLR4^{-/-}) and four time points (0, 6, 12, and 18 hours post induction).



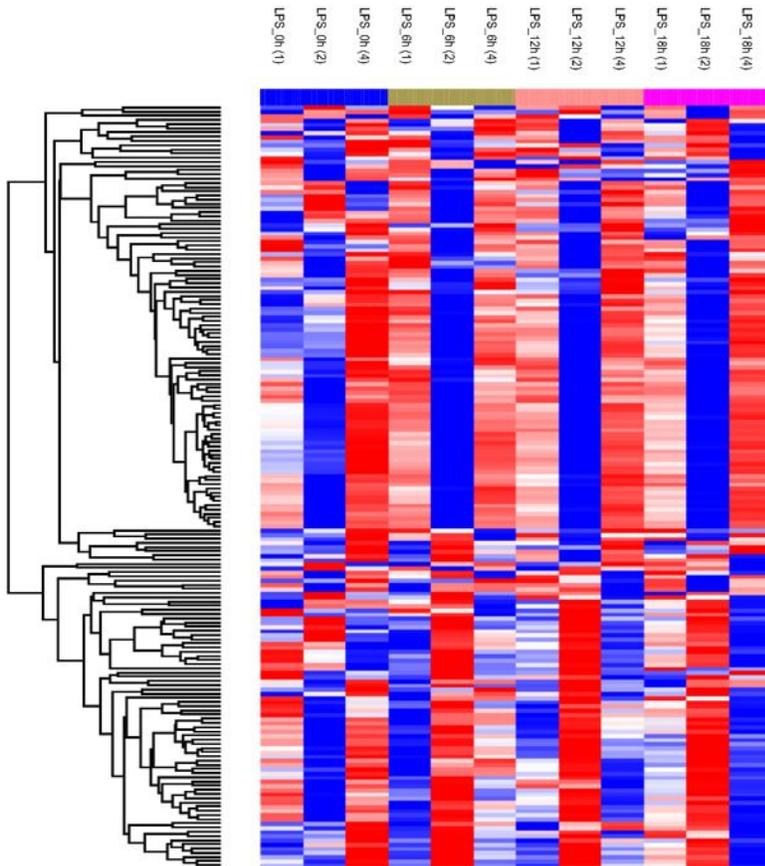
Supplemental Figure 2. Dynamic range analysis of sepsis serum proteome. (a) Distribution of protein abundance from 32 serum samples; Light yellow highlighted rectangle spans a 100-fold range, containing 453 proteins. (b) Frequency distribution of all 572 proteins.



Supplemental Figure 3. Technical replicates reproducibility of all 32 serum samples. (a) R^2 values of each correlated duplicate injection of each biological replicate. Pink shaded area represents a range of 0.95 to 1.00 of R^2 values. Sample names on x-axis are plotted following the randomized injection order. (b) Example of the sample collected from mouse 4 of LPS dosed group at 0 hour.



Supplemental Figure 4. Hierarchical Clustering Analysis with Z-score Normalization by Biological Replicates Grouping. Heat map of LPS-WT group proteins profile. Up-regulated proteins z-score normalized values are colored in red and down-regulated proteins in blue. The grouping method for z-score normalization is calculated by taking three mouse protein LFQ data sets from the same time point.



Supplemental Appendix I.

List of 182 significant proteins from analysis 1

B3EWD4 F4HPR5 O08677 O08709 O09061 O09164 O35744 O70250 O70362 O88947 O89020
P01027 P01631 P01638 P01678 P01754 P01790 P01799 P01837 P01864 P01868 P01872
P01898 P01942 P02057 P02088 P03953 P03987 P04919 P05064 P05366 P05367 P06151
P06330 P06728 P06745 P06909 P07309 P07361 P07724 P07758 P07759 P07901 P08032
P08071 P08226 P08228 P09411 P09528 P62984 P10639 P10810 P63017 P11276 P11352
P11672 P11680 P11758 P13020 P13609 P14106 P14152 P15327 P15508 P15532 P16294
P17182 P17742 P17751 P19157 P19221 P20918 P21107 P21180 P21614 P22777 P23953
P26262 P27005 P28665 P29391 P29699 P29788 P31532 P31725 P32261 P33622 P35441
P39039 P40124 P40142 P41317 P46412 P48193 P49182 P49222 P51437 P51885 P51910
P53657 P54116 Q63570 Q01853 P58389 P60712 P61089 P62827 P63101 P63242 P70168
P70274 P70290 P70349 P70389 P70697 P80316 P80317 P84084 Q6LBE8 P97372 P98064
P98086 Q00623 Q00724 Q00897 Q01279 Q01339 Q01730 Q02013 Q02053 Q02105 Q02357
Q06770 Q06890 Q07235 Q07456 Q07968 Q08761 Q60994 Q61129 Q61233 Q61247 Q61598
Q61646 Q61702 Q61730 Q61838 Q64726 Q6ZQ38 Q76MZ3 Q80YC5 Q8CC86 Q8CHP8
Q8K0D2 Q8K0E8 Q8K182 Q8VCG4 Q8VCM7 Q8VDM4 Q91WP6 Q91XF0 Q921I1 Q923D2
Q99JI6 Q9CPU0 Q9CQ60 Q9CQT1 Q9CY64 Q9DBB9 Q9DBD0 Q9DCD0 Q9JMA1
Q9QUM9 Q9QWK4 Q9QXC1 Q9QYC0 Q9R098 Q9R1P3 Q9WVJ2 Q9Z126 Q9Z1R3
Q9Z2W0

List of 51 significant proteins from analysis 2

P49722 P52480 P98064 P15508 P51910 Q8VCM7 P51437 O88783 Q99KB8 Q9WV69
Q8BGD9 O89053 Q8BH61 Q9QYB8 P10518 P62630 Q8K0E8 P58252 P26928 Q8BKC5
Q9QWK4 E9PV24 P01631 Q9DCD0 P53657 P0DP28 P70274 P14152 P62806 Q00724
Q9CY64 P01844 Q61730 Q9CQ60 P03953 Q9R1P3 P54822 Q19LI2 Q3TMH2 P97494 P01592
Q9R098 P14106 P58389 P39039 P05064 Q9JMA1 Q61598 O70250 P03987 Q91XF0

List of 69 significant proteins from analysis 2

P01027 P06683 Q91X72 P11680 P23953 P01837 Q61247 P32261 Q9WVJ2 Q8BH35 P33622
P41317 Q07968 P21614 P31532 Q00897 Q61129 P01898 P22907 P01872 O08677 P16294
Q9DBB9 Q9DBD0 P10810 P20918 P06728 P01864 P08226 P29699 P19221 P07724 Q8VDM4
P06330 P01638 O09061 Q01339 Q06890 P07759 Q8VCG4 P06684 P22777 Q921I1 P80317
P98086 Q64726 P55065 P70697 Q61702 P13020 Q9Z1R3 P51885 P01843 P26262 P49182
O88947 Q00623 P46412 P80316 Q9CQT1 Q01279 P01868 Q07456 P06909 P07309 O89020
P01799 P01867 Q80YC5