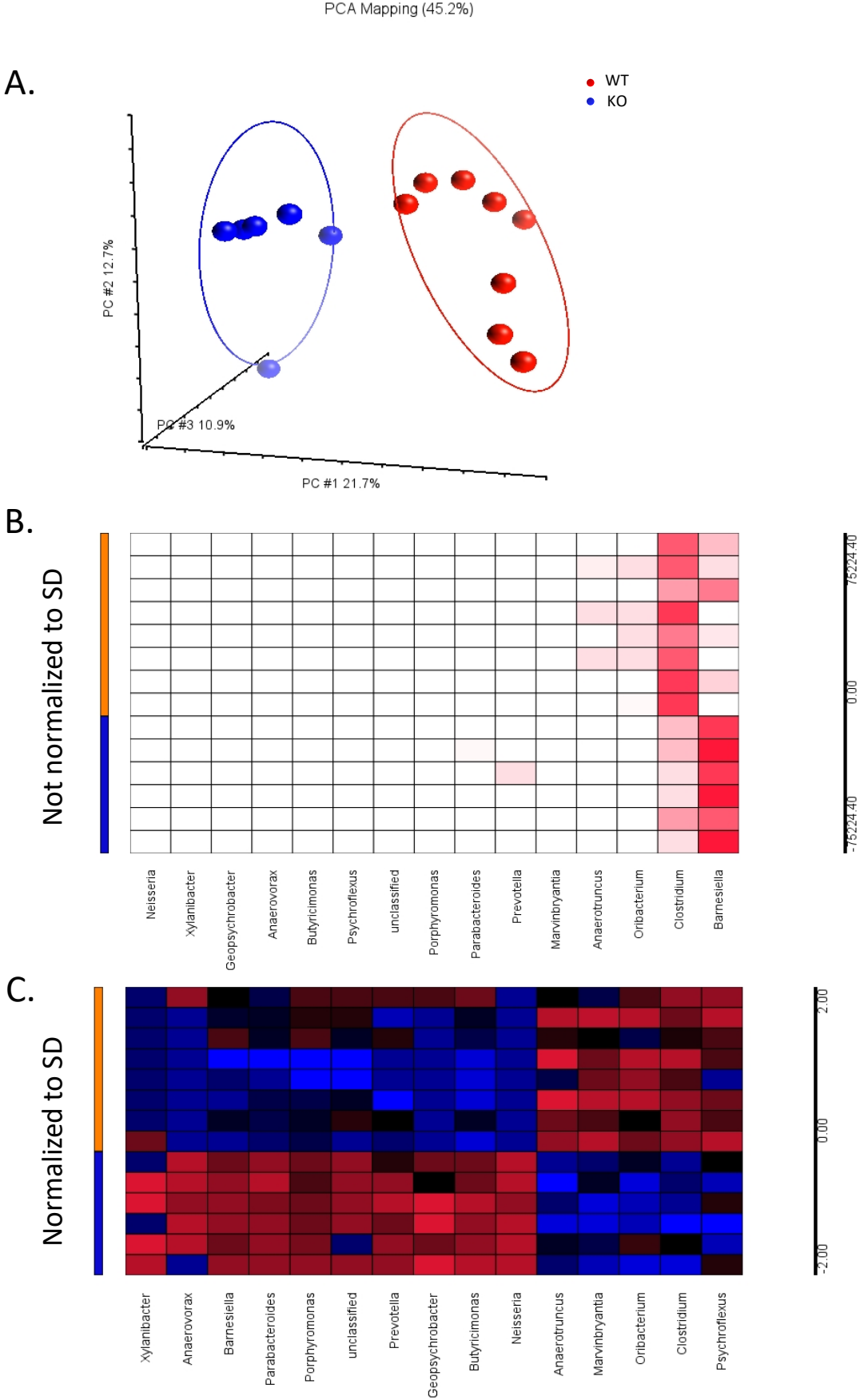
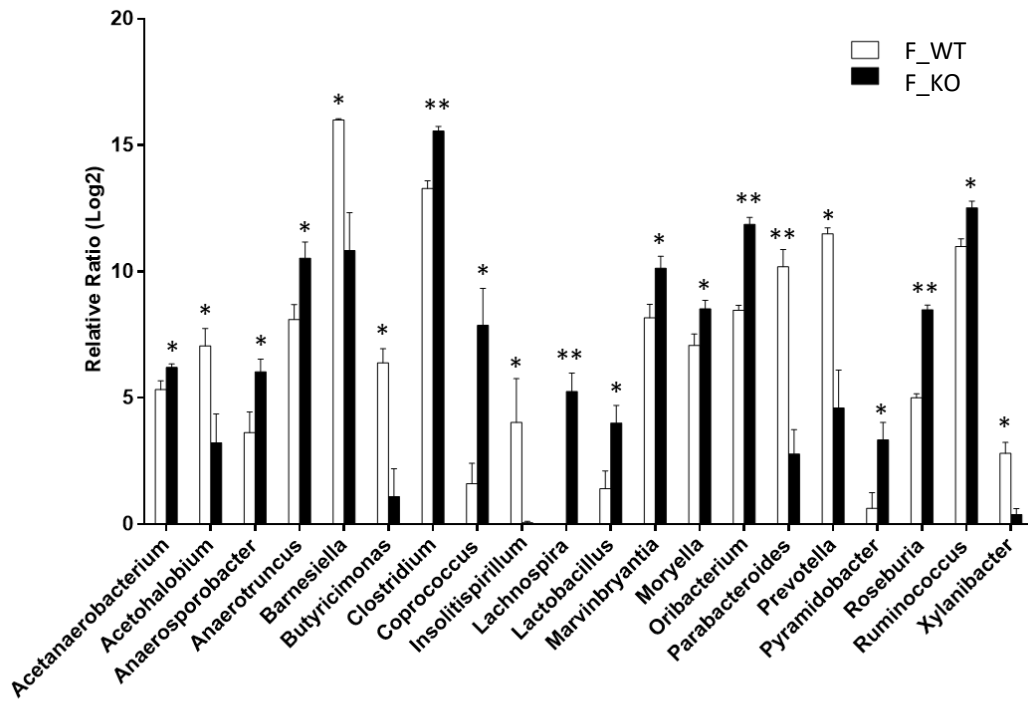


Supplemental Figures

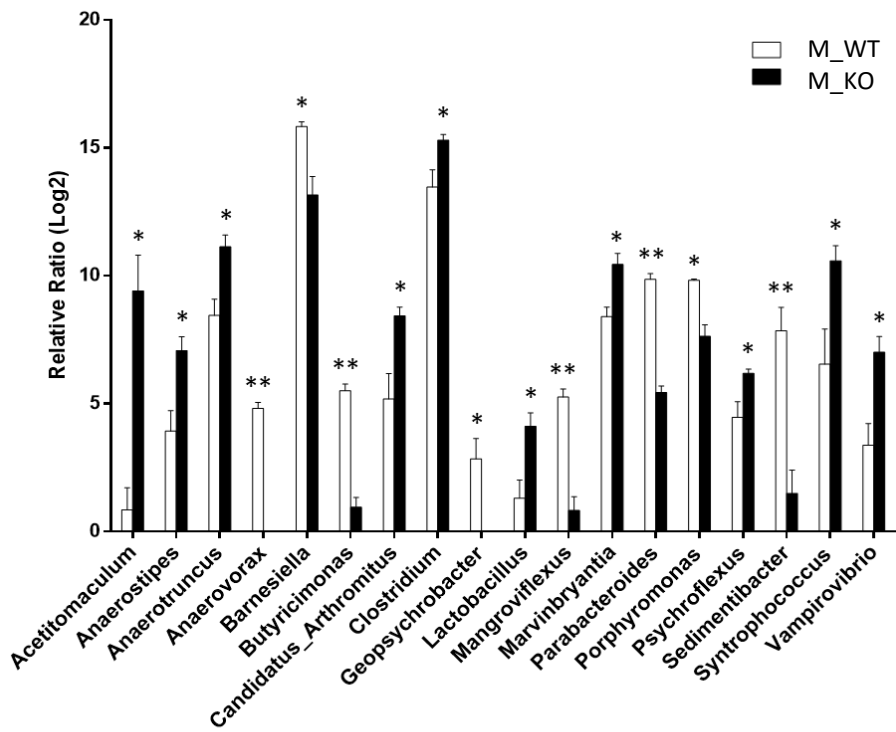
Supplemental Figure 1.



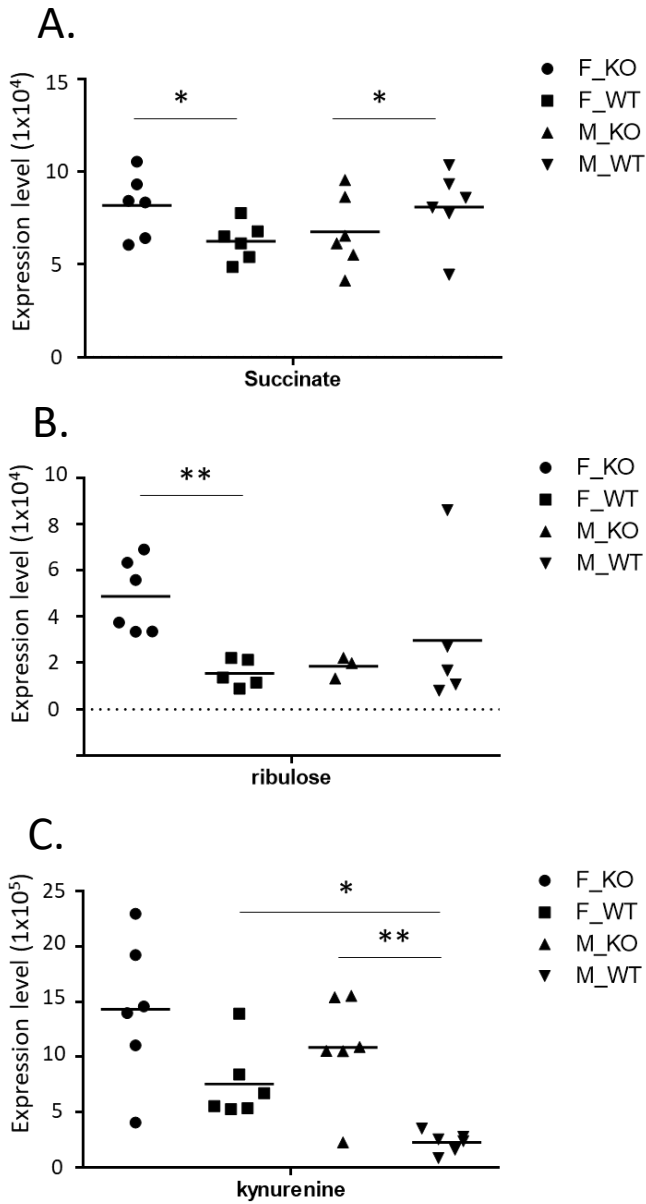
D.



E.

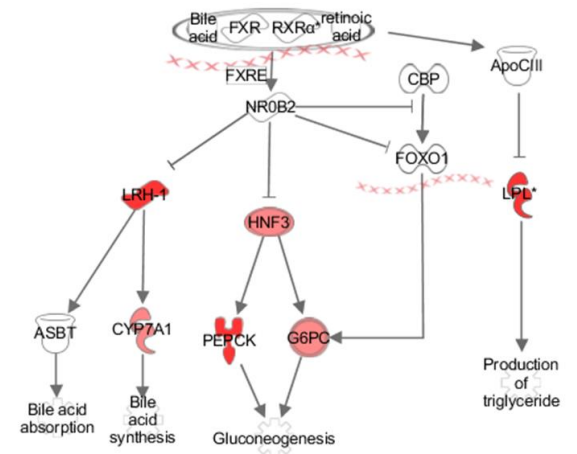


Supplemental Figure 2.

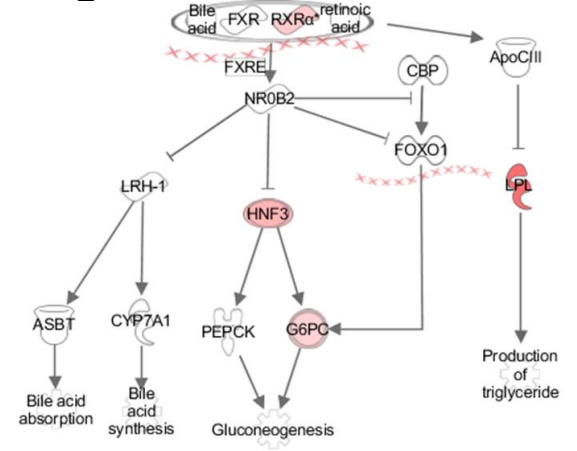


D.

Female_KO



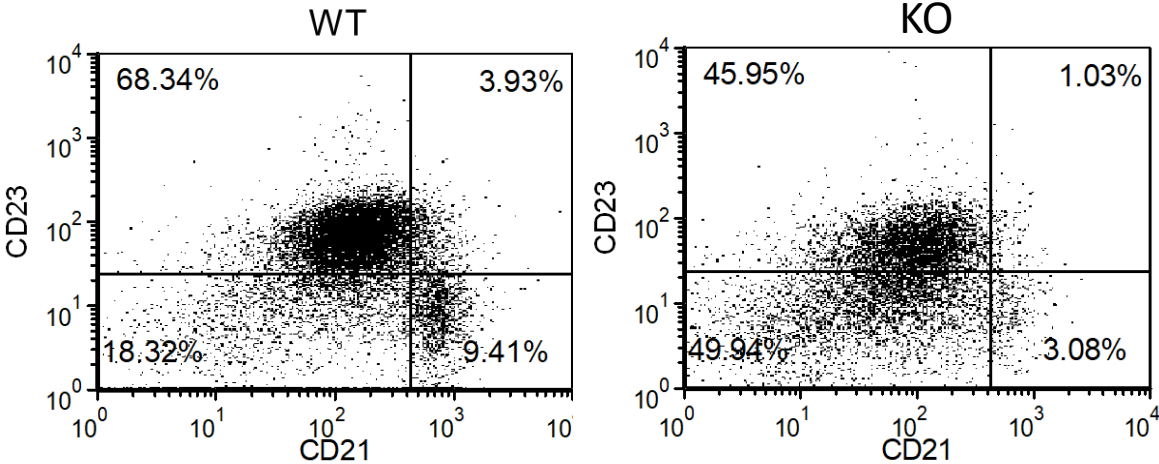
Male_KO



Supplemental Figure 3.

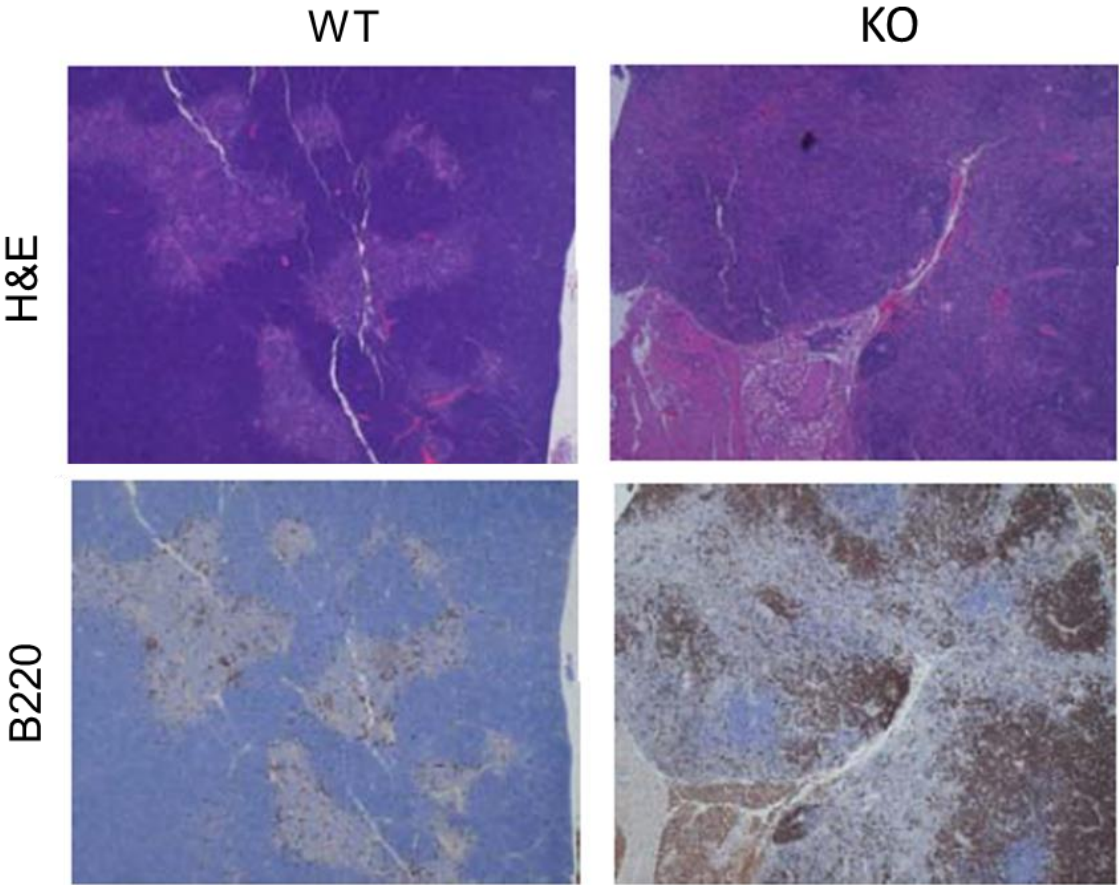
A.

Spleen



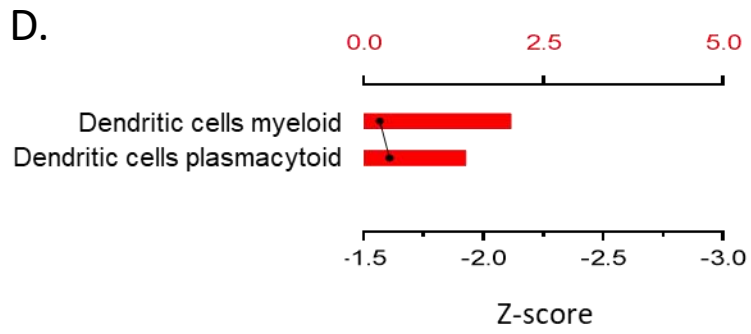
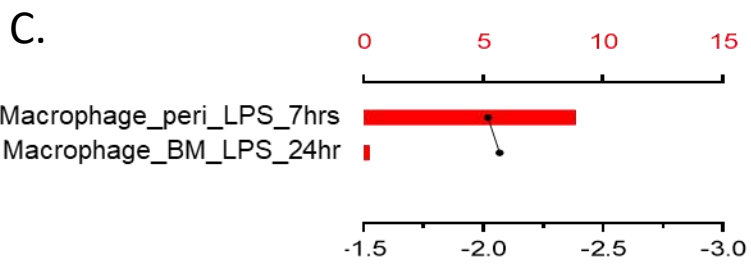
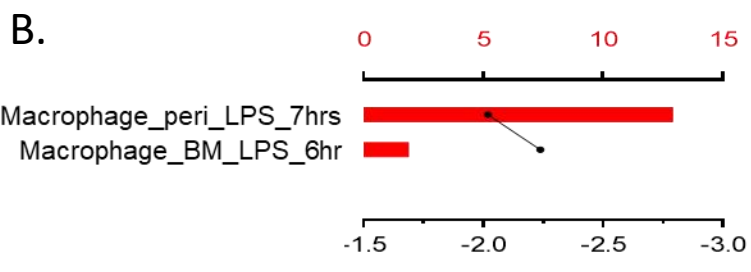
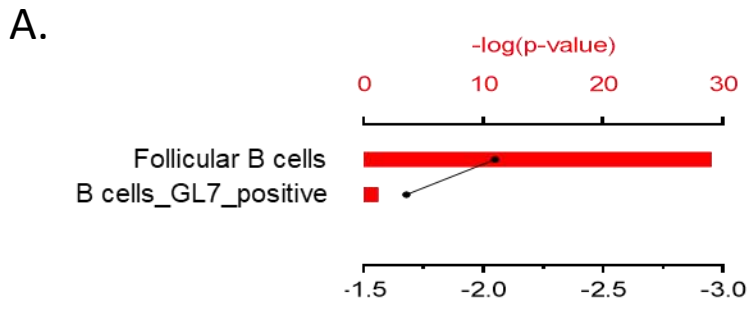
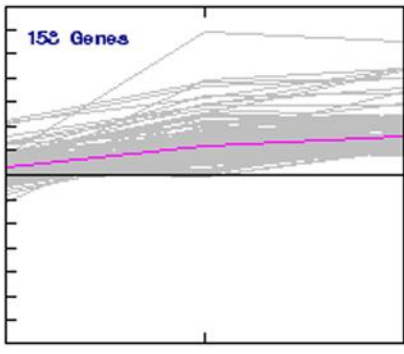
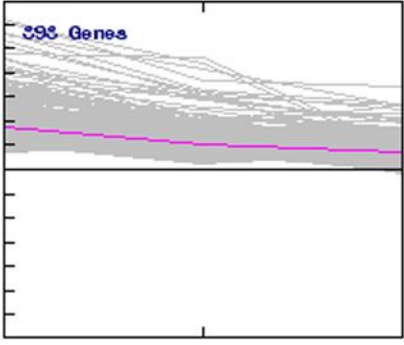
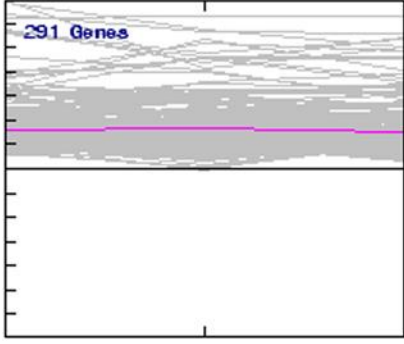
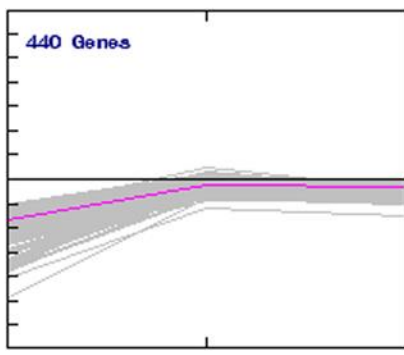
B.

Thymus



Supplemental Figure 4.

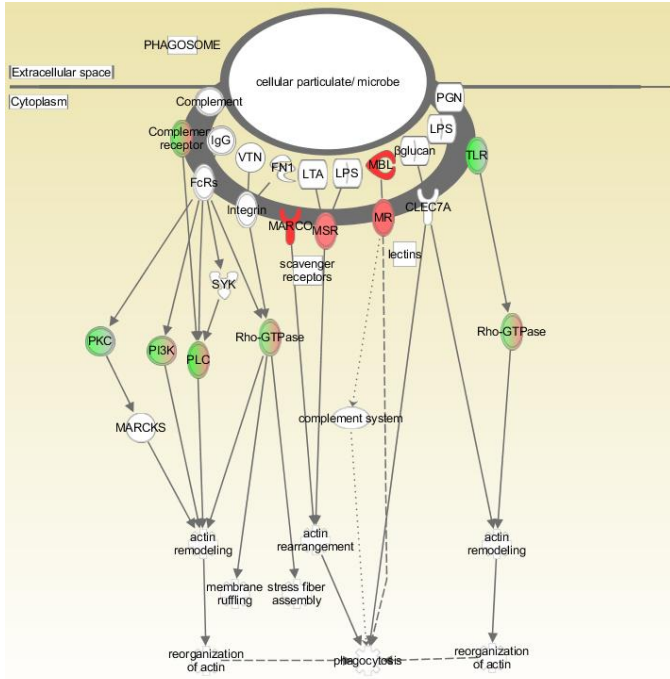
3wks 6wks 12wks



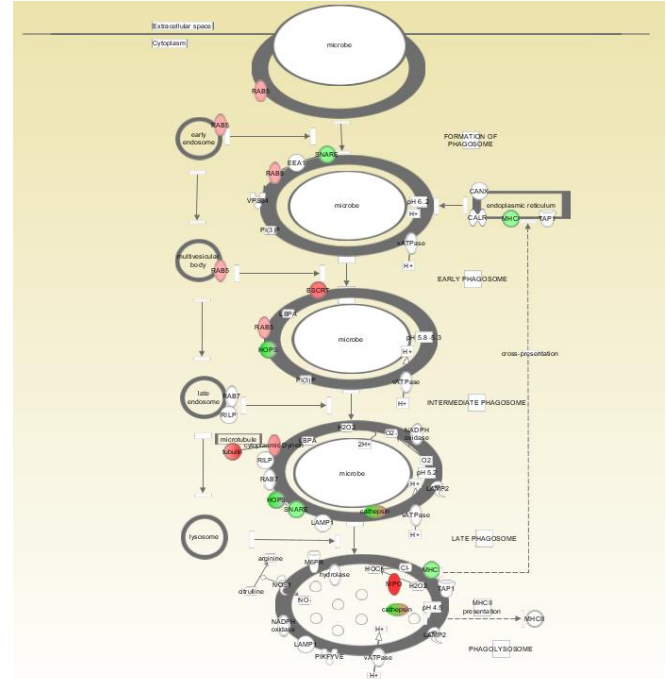
KO vs WT

Supplemental Figure 5.

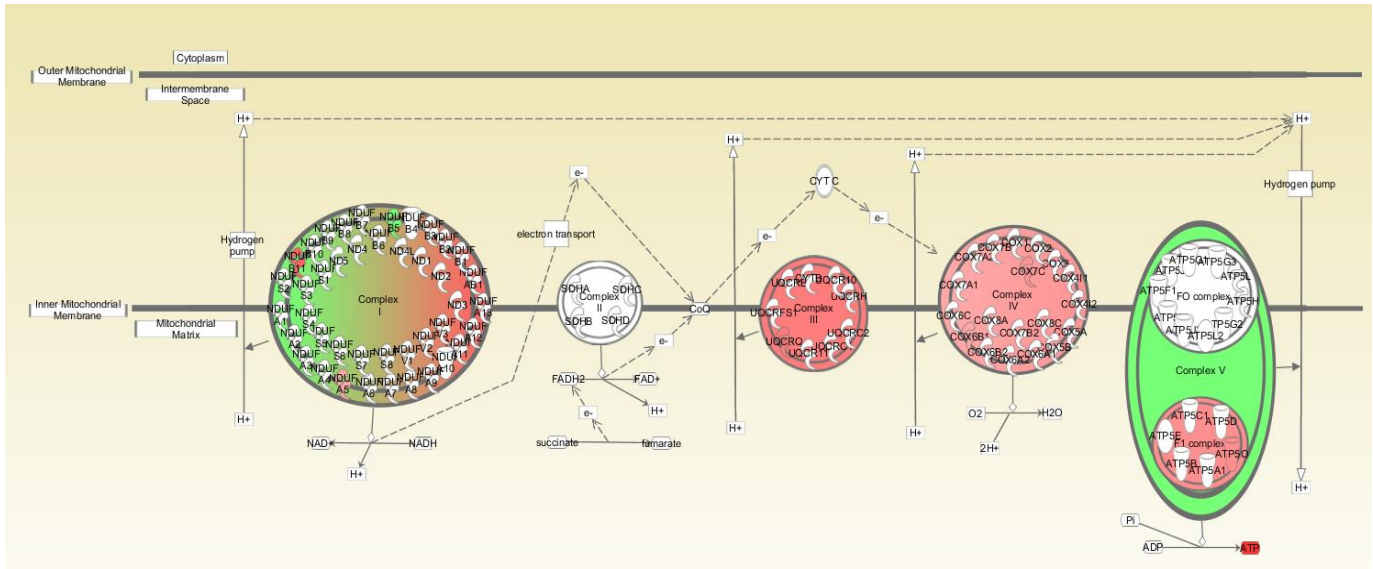
A. Phagosome formation



B. Phagosome maturation

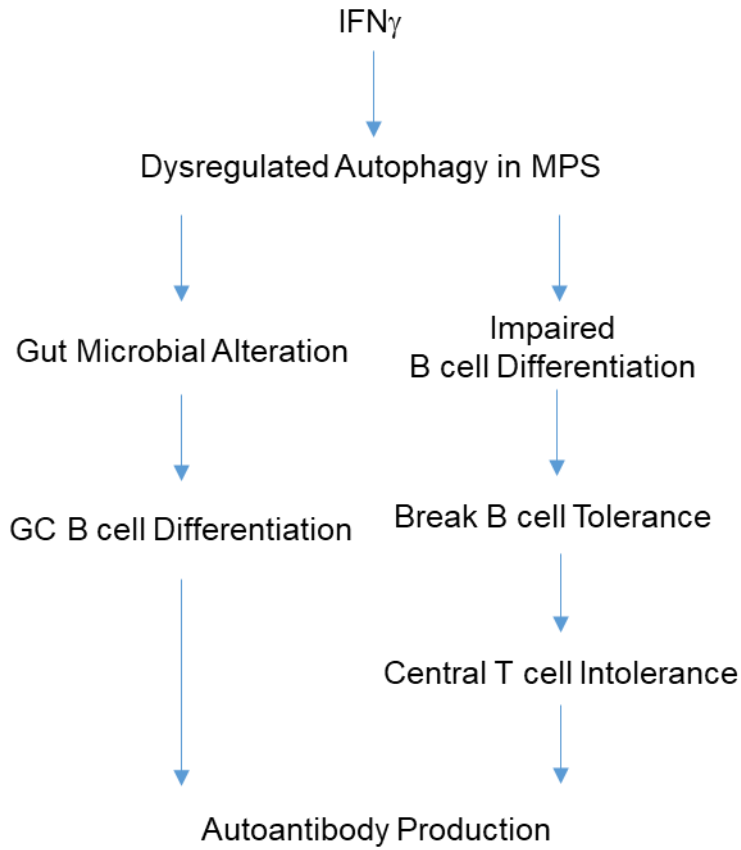


C. Oxidative phosphorylation



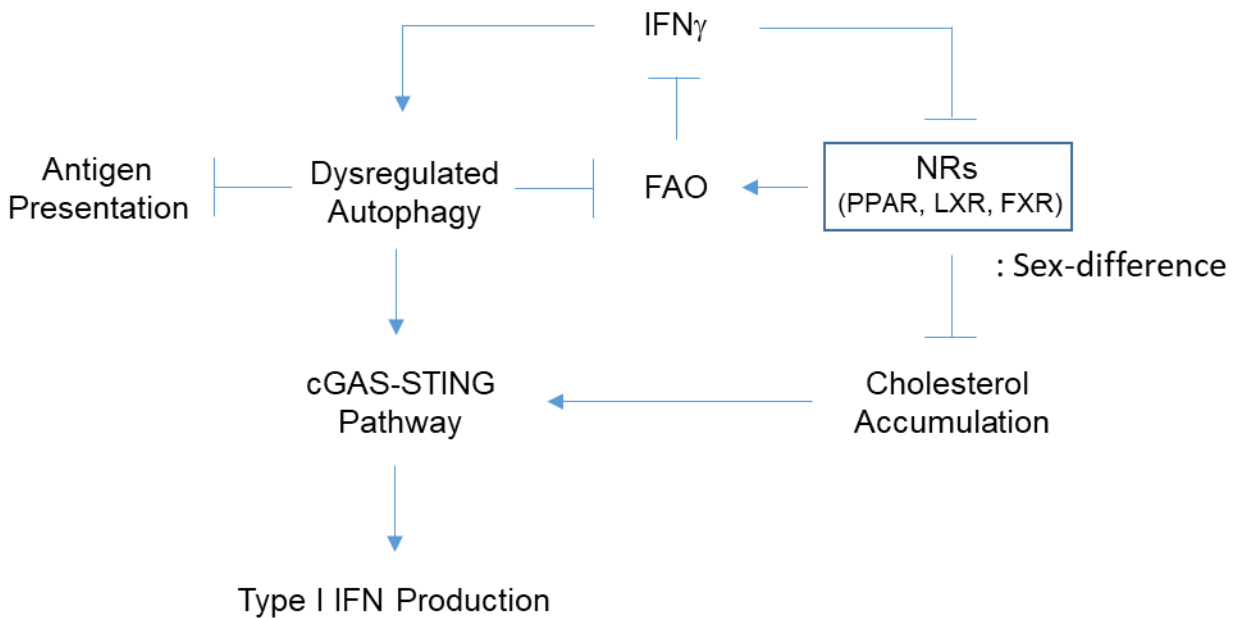
Supplemental Figure 6.

A. Systemic Level



MPS: Mononuclear phagocyte system

B. Cellular Level



Supplemental Table 1.

| miRNA ID | miRNA_12wks (Fold Change) | Gene Symbol | Thymus_12wk (Fold Change) |
|-----------------|------------------------------|-------------|------------------------------|
| mmu-let-7a | -2.645 | CCL7 | 6.622 |
| mmu-let-7a | -2.645 | CHST3 | 5.313 |
| mmu-let-7a | -2.645 | HMOX1 | 2.531 |
| mmu-let-7a | -2.645 | IL10 | 6.863 |
| mmu-let-7a | -2.645 | MSR1 | 5.28 |
| mmu-let-7a | -2.645 | POU2F2 | 4.792 |
| mmu-miR-1 | -2.102 | NR1H3 | 3.211 |
| mmu-miR-1 | -2.102 | NRP2 | 2.655 |
| mmu-miR-101a | 1.352 | CAV3 | 4.681 |
| mmu-miR-101a | 1.352 | MYO1E | 3.182 |
| mmu-miR-101a | 1.352 | RAC1 | 7.69 |
| mmu-miR-107 | -1.608 | FIGF | 2.494 |
| mmu-miR-107 | -1.608 | PIK3AP1 | 7.107 |
| mmu-miR-1197 | 1.02 | FCER1G | 5.403 |
| mmu-miR-122 | 1.257 | NOD2 | 3.233 |
| mmu-miR-122 | 1.257 | OCLN | 2.492 |
| mmu-miR-1224 | -1.621 | CXCL6 | 5.676 |
| mmu-miR-124 | -1.602 | GNG2 | 2.646 |
| mmu-miR-124 | -1.602 | PTPRJ | 2.45 |
| mmu-miR-125a-3p | -1.736 | CCL4 | 14.957 |
| mmu-miR-125a-3p | -1.736 | LAIR1 | 2.727 |
| mmu-miR-125a-5p | -1.635 | CCR5 | 17.619 |
| mmu-miR-125a-5p | -1.635 | CXCL13 | 8.734 |
| mmu-miR-125a-5p | -1.635 | MYO7A | 2.433 |
| mmu-miR-138 | -1.179 | CYBB | 5.923 |
| mmu-miR-138 | -1.179 | SDC3 | 3.352 |
| mmu-miR-138 | -1.179 | SH2D1B | 13.466 |
| mmu-miR-140 | -1.426 | C1R | 3.587 |
| mmu-miR-142-3p | -1.322 | TNFRSF13C | 6.189 |
| mmu-miR-145 | -2.446 | SIRPA | 4.251 |
| mmu-miR-146a | -1.433 | NOS2 | 3.981 |
| mmu-miR-146a | -1.433 | STAT1 | 2.921 |
| mmu-miR-146a | -1.433 | TLR1 | 8.109 |
| mmu-miR-147 | -1.836 | BTK | 4.865 |
| mmu-miR-149 | -1.819 | CD72 | 7.539 |
| mmu-miR-149 | -1.819 | FCGR3A | 118.674 |
| mmu-miR-150 | -1.043 | ITGAX | 6.901 |
| mmu-miR-152 | -1.613 | HLA-A | 2.754 |
| mmu-miR-155 | -1.276 | LAT2 | 4.083 |
| mmu-miR-16 | -1.884 | CXCL10 | 4.475 |
| mmu-miR-16 | -1.884 | IL10RA | 2.855 |
| mmu-miR-16 | -1.884 | TNFSF13B | 5.704 |
| mmu-miR-181a | -1.599 | IL2 | 2.828 |
| mmu-miR-185 | -1.884 | LYN | 5.492 |
| mmu-miR-188-3p | 1.222 | PAX5 | 4.833 |
| mmu-miR-1900 | -1.928 | TLR6 | 3.687 |
| mmu-miR-192 | -1.177 | CXCR5 | 6.062 |
| mmu-miR-1962 | -1.21 | CD79A | 6.327 |
| mmu-miR-1962 | -1.21 | OAS1 | 3.741 |
| mmu-miR-1962 | -1.21 | TGM2 | 2.816 |
| mmu-miR-200a | -2.071 | HCAR2 | 6.055 |
| mmu-miR-214 | -1.969 | F8 | 2.142 |
| mmu-miR-219 | -1.572 | IL12B | 4.156 |
| mmu-miR-219 | -1.572 | PLCG2 | 3.106 |
| mmu-miR-22 | -1.248 | TLR8 | 4.983 |
| mmu-miR-222 | -1.95 | C6 | 4.59 |
| mmu-miR-224 | -1.573 | PTX3 | 4.062 |
| mmu-miR-24 | -1.218 | IFNG | 24.122 |
| mmu-miR-2861 | -1.042 | GSTT1 | 4.711 |
| mmu-miR-296-5p | -1.029 | CD22 | 4.442 |
| mmu-miR-29b | -1.407 | Tpm1 | 5.305 |
| mmu-miR-301b | -1.494 | TBXAS1 | 4.493 |
| mmu-miR-3072 | -1.181 | BLVRB | 2.75 |
| mmu-miR-3072 | -1.181 | NLRC5 | 2.884 |
| mmu-miR-31 | -1.517 | FCGR1A | 7.535 |
| mmu-miR-324-5p | 1.037 | CCL13 | 6.789 |
| mmu-miR-370 | -1.153 | FARP2 | 2.277 |
| mmu-miR-495 | -1.406 | NOD1 | 3.471 |
| mmu-miR-668 | 1.403 | PLA2G2D | 5.048 |
| mmu-miR-671-5p | 1.082 | C1QA | 5.771 |
| mmu-miR-744 | -1.511 | PLD4 | 6.227 |
| mmu-miR-758 | -1.138 | TLR7 | 3.348 |
| mmu-miR-876-5p | -1.302 | MYL2 | 8.992 |