

26 **FIGURE LEGENDS**

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28 **Figure S1: Microbiota and inflammation in WT or IL10^{-/-} microbiota-conventionalized mice.**

29 Three-weeks old male and female GF C57BL/6 mice were conventionalized *via* microbiota
30 transplant from single WT, non-colitic IL10^{-/-} or colitic IL10^{-/-} female donor mice. **A**, LefSe (LDA
31 Effect Size) was used to investigate bacterial members that drive the differences in the fecal
32 microbiota of WT, non-colitic IL10^{-/-} and colitic IL10^{-/-}. Taxonomic cladogram obtained from
33 LefSe analysis of fecal 16S rRNA gene sequencing results, highlighting taxa found to be
34 significantly altered between groups at D42. Blue: taxa enriched in the microbiota of WT
35 microbiota recipient mice, Green: taxa enriched in the microbiota of non colitic IL10^{-/-} microbiota
36 recipient mice and red: taxa enriched in the microbiota of colitic IL10^{-/-} microbiota recipient mice.
37 The brightness of each dot is proportional to its effect size (LDA score > 2.0). **B**, Body weight of
38 conventionalized mice from transplant to euthanasia at D49. **C**, Colonic MPO levels at D49. **D**,
39 Levels of fecal lipocalin-2 (LCN-2) were monitored by ELISA. Data are presented as the means ±
40 SEM (n=5 per group). Significance was determined by two-way ANOVA followed by Bonferroni
41 *post-hoc* test. **, p<0.01; *, p<0.05.

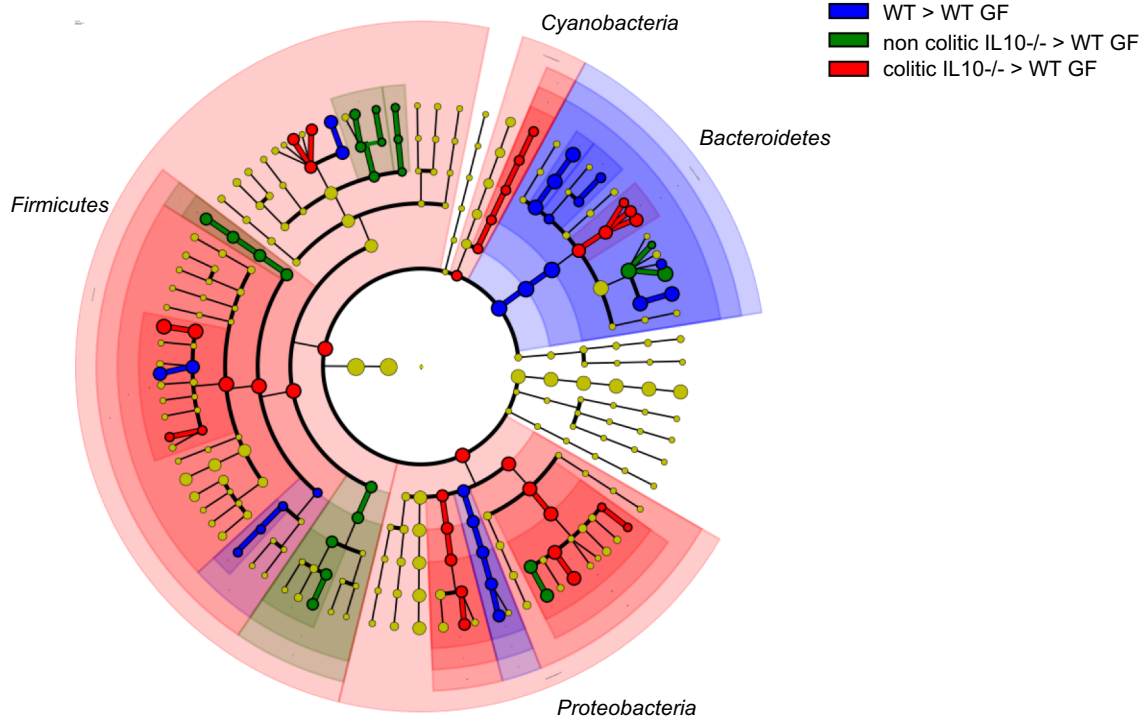
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43 **Figure S2: Microbiota and inflammatory in WT or colitic IL10^{-/-} or TLR5^{-/-} microbiota-**
44 **conventionalized mice.** Three-weeks old male and female GF C57BL/6 mice were

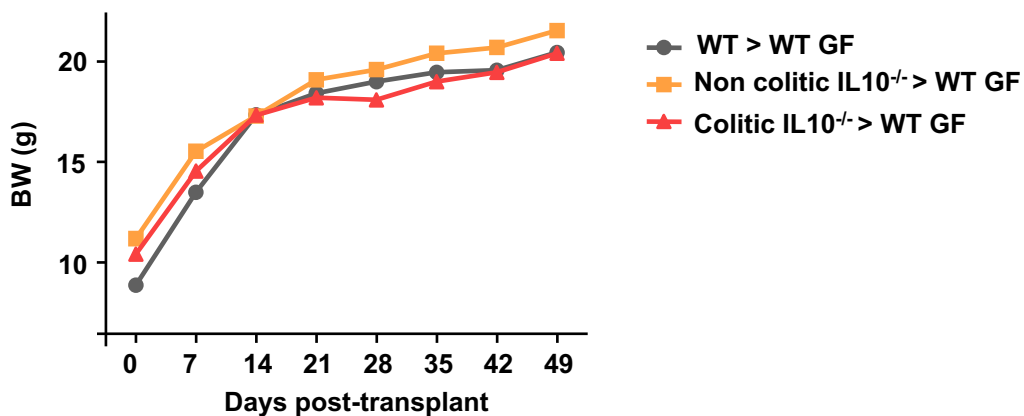
45 conventionalized *via* microbiota transplant from single WT, colitic IL10^{-/-} or TLR5^{-/-} female donor
46 mice. **B**, LefSe (LDA Effect Size) was used to investigate bacterial members that drive the
47 differences in the fecal microbiota of WT, IL10^{-/-} and TLR5^{-/-}. Taxonomic cladogram obtained
48 from LefSe analysis of fecal 16S rRNA gene sequencing results, highlighting taxa found to be
49 significantly between groups at D42. Blue: taxa enriched in the microbiota of WT microbiota
50 recipient mice, Green: taxa enriched in the microbiota of colitic IL10^{-/-} microbiota recipient mice
51 and red: taxa enriched in the microbiota of colitic TLR5^{-/-} microbiota recipient mice. The
52 brightness of each dot is proportional to its effect size (LDA score > 2.0). **B**, Body weight of
53 conventionalized mice from transplant to euthanasia at D49. **C**, Colonic MPO levels at day 49.
54 Data are presented as the means ± SEM (n=5-8 per group). Significance was determined by two-
55 way ANOVA.

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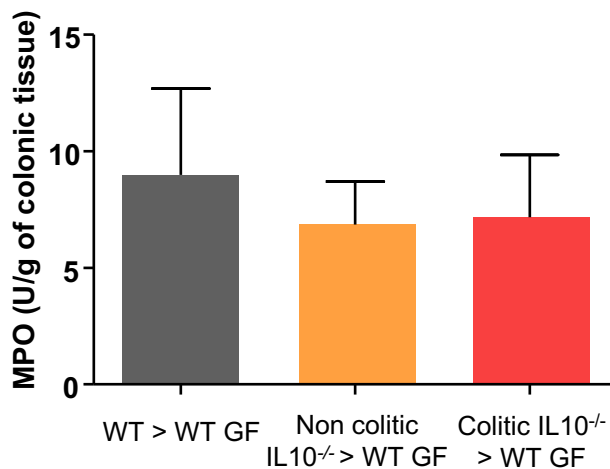
A



B



C



D

