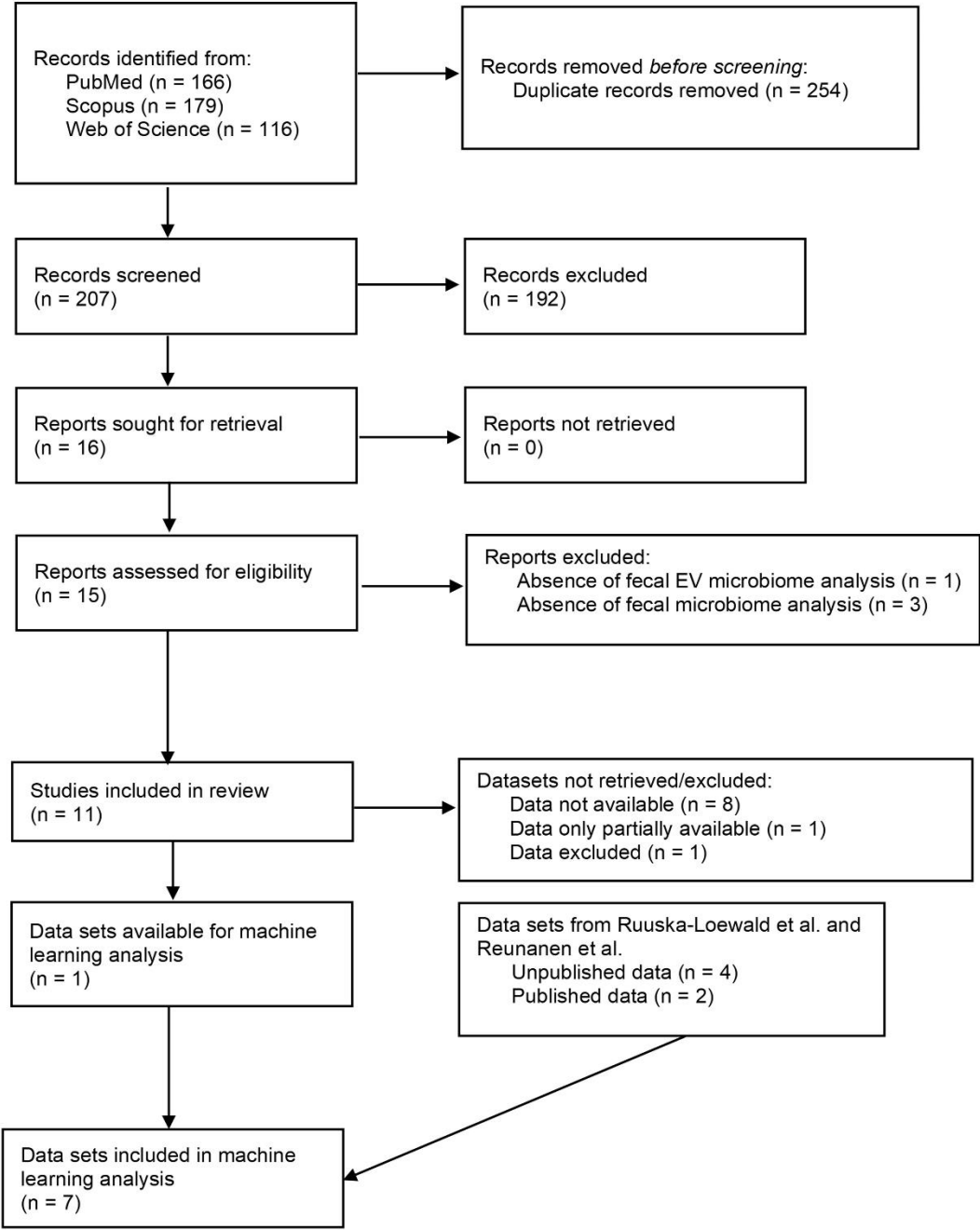
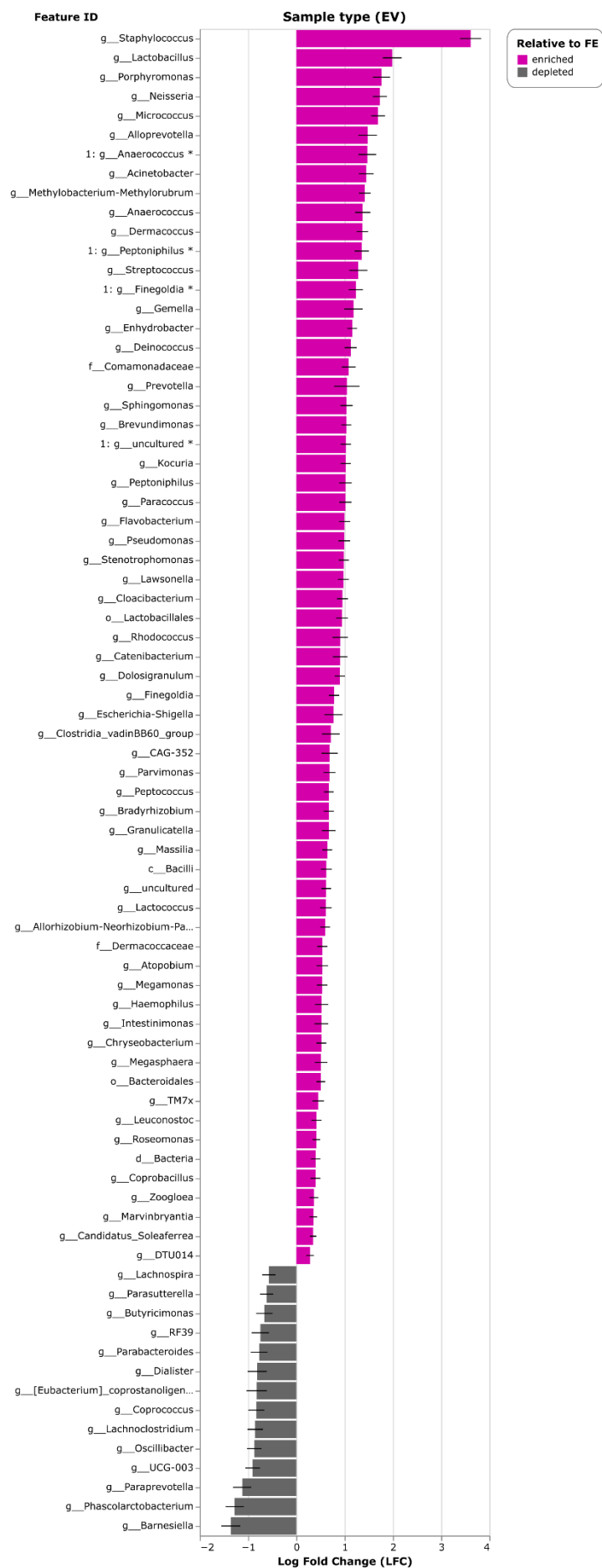


1    **Supplemental figures (1-11)**

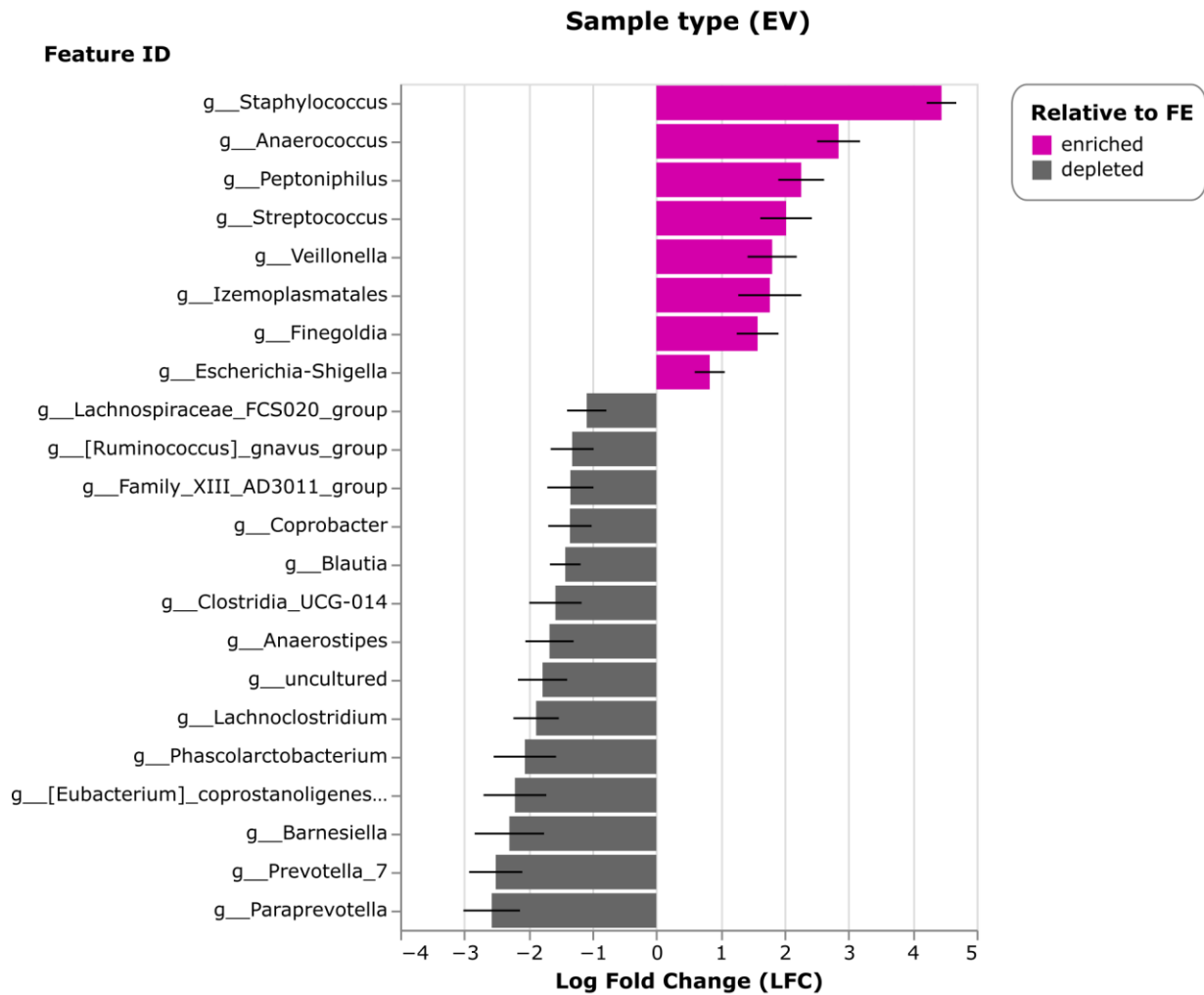


2

3    **Supplemental figure 1.** Preferred Reporting Items for Systematic Reviews and Meta-Analyses  
4    (PRISMA) flowchart of the systematic review process used to identify published 16S rRNA gene  
5    sequencing datasets.

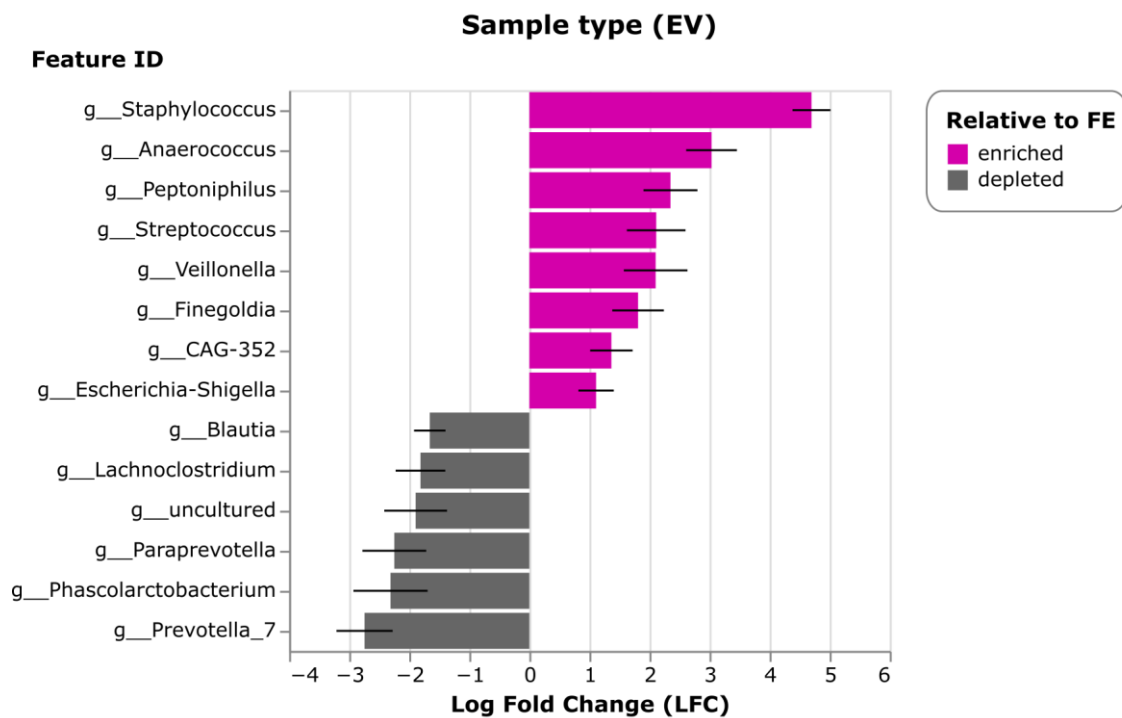


7 **Supplemental figure 2.** Differentially abundant genera between gut microbiota-derived EV and  
8 fecal samples pooled from all the datasets with 95% confidence intervals for the mean differential  
9 abundance for all genera. Genera with positive LFC values (pink) are enriched, and genera with  
10 negative LFC values (grey) are depleted in the gut microbiota-derived EVs compared to the fecal  
11 samples.



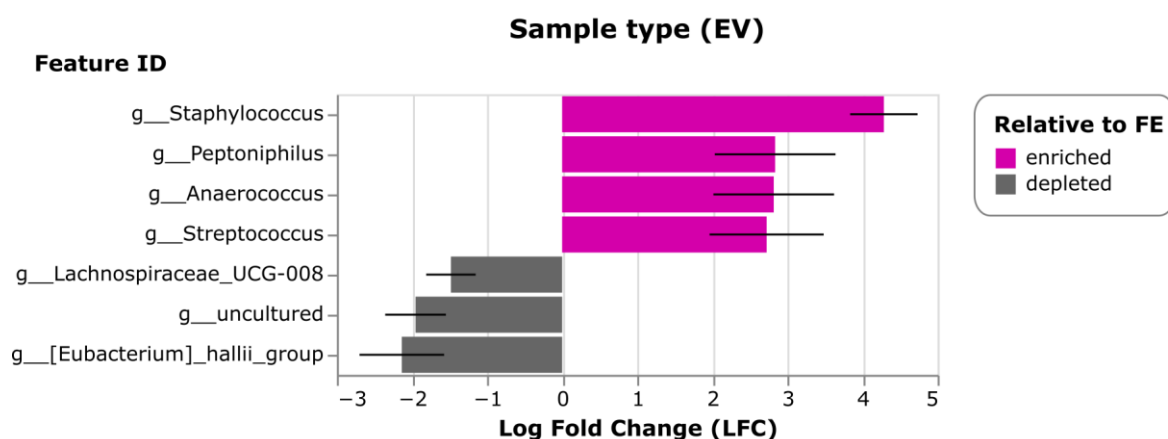
12

13 **Supplemental figure 3.** Differentially abundant genera between gut microbiota-derived EV and  
 14 fecal samples in the lymphoma (all) dataset, with 95% confidence intervals for the mean differential  
 15 abundance for all genera. Genera with positive LFC values (pink) are enriched, and genera with  
 16 negative LFC values (grey) are depleted in the gut microbiota-derived EVs compared to the fecal  
 17 samples.



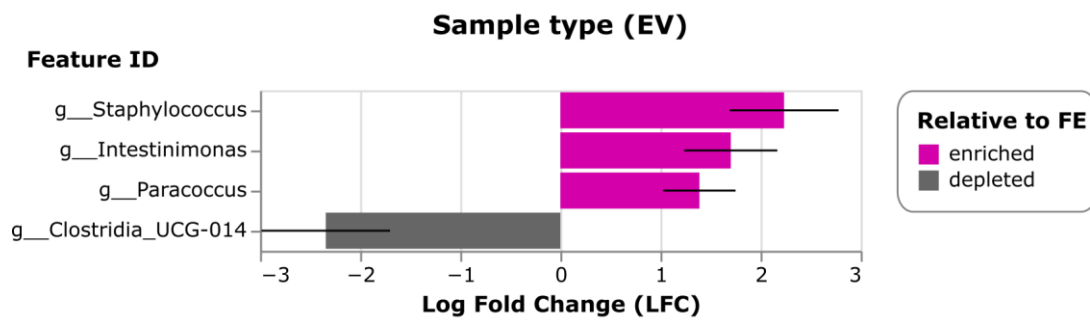
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19 **Supplemental figure 4.** Differentially abundant genera between gut microbiota-derived EV and  
 20 fecal samples in the lymphoma (DLBL) dataset, with 95% confidence intervals for the mean  
 21 differential abundance for all genera. Genera with positive LFC values (pink) are enriched, and  
 22 genera with negative LFC values (grey) are depleted in the gut microbiota-derived EVs compared to  
 23 the fecal samples.



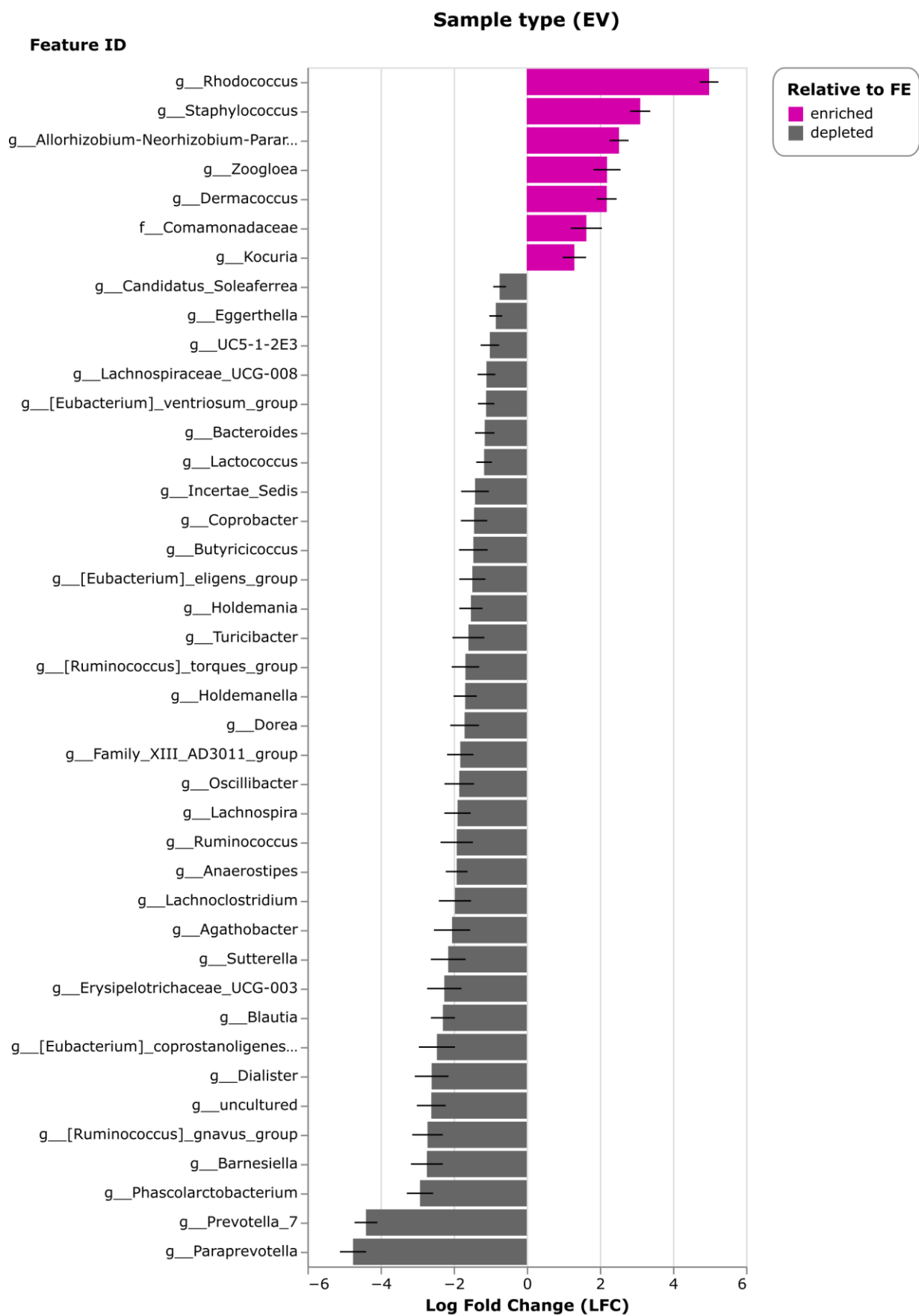
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25 **Supplemental figure 5.** Differentially abundant genera between gut microbiota-derived EV and  
 26 fecal samples in the lymphoma (Hodgkin) dataset, with 95% confidence intervals for the mean  
 27 differential abundance for all genera. Genera with positive LFC values (pink) are enriched, and  
 28 genera with negative LFC values (grey) are depleted in the gut microbiota-derived EVs compared to  
 29 the fecal samples.



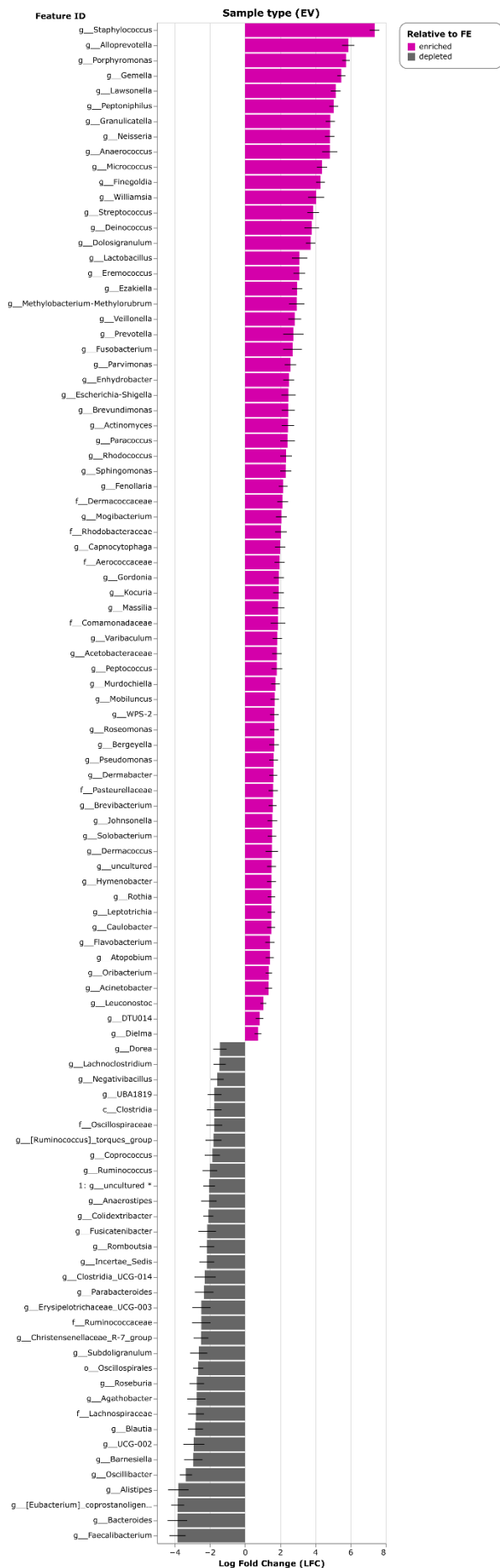
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31 **Supplemental figure 6.** Differentially abundant genera between gut microbiota-derived EV and  
 32 fecal samples in the Parkinson's disease dataset, with 95% confidence intervals for the mean  
 33 differential abundance for all genera. Genera with positive LFC values (pink) are enriched, and  
 34 genera with negative LFC values (grey) are depleted in the gut microbiota-derived EVs compared to  
 35 the fecal samples.

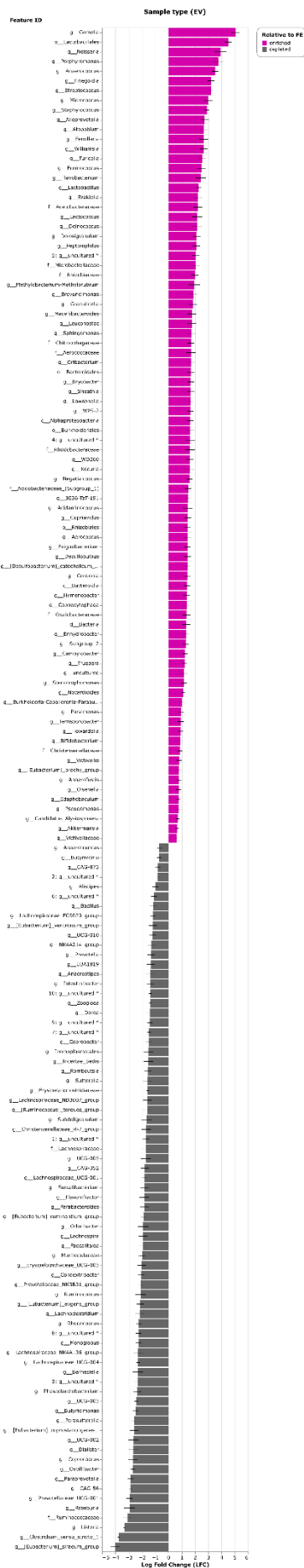




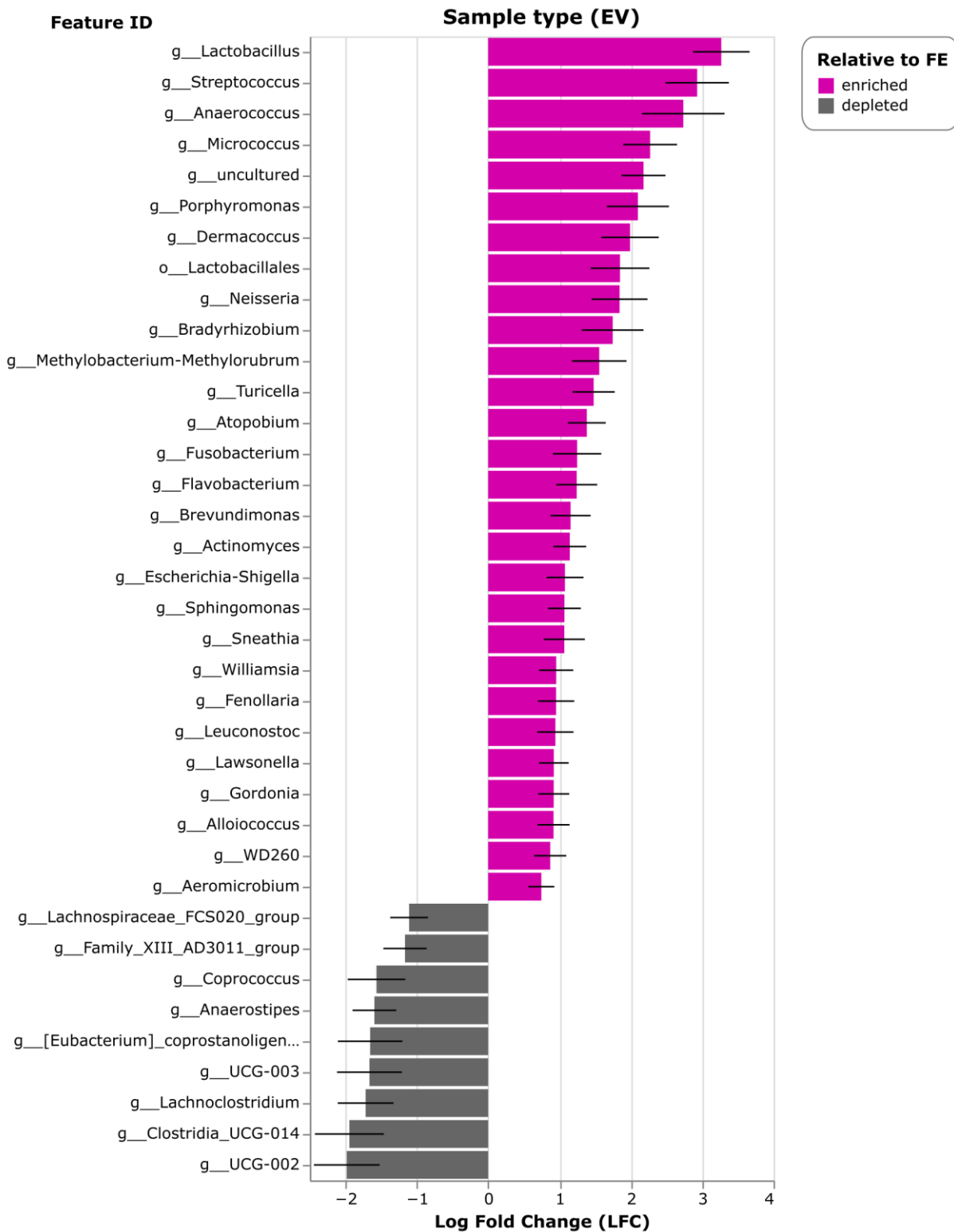
37 **Supplemental figure 7.** Differentially abundant genera between gut microbiota-derived EV and  
38 fecal samples in the solid tumor dataset with 95% confidence intervals for the mean differential  
39 abundance for all genera. Genera with positive LFC values (pink) are enriched, and genera with  
40 negative LFC values (grey) are depleted in the gut microbiota-derived EVs compared to the fecal  
41 samples.



43 **Supplemental figure 8.** Differentially abundant genera between gut microbiota-derived EV and  
44 fecal samples in the pregnancy dataset, with 95% confidence intervals for the mean differential  
45 abundance for all genera. Genera with positive LFC values (pink) are enriched, and genera with  
46 negative LFC values (grey) are depleted in the gut microbiota-derived EVs compared to the fecal  
47 samples.

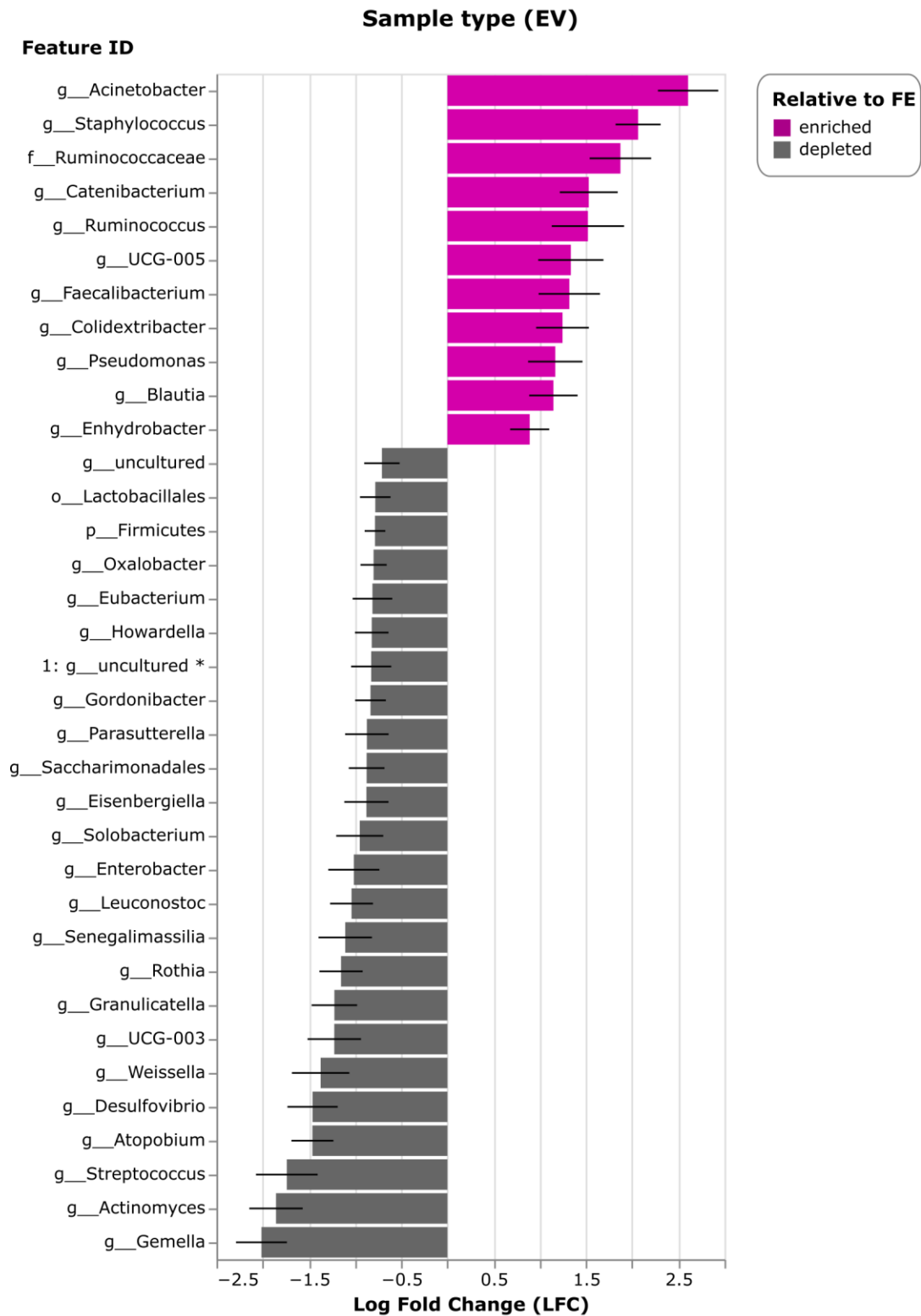


49 **Supplemental figure 9.** Differentially abundant genera between gut microbiota-derived EV and  
50 fecal samples in the obesity dataset, with 95% confidence intervals for the mean differential  
51 abundance for all genera. Genera with positive LFC values (pink) are enriched, and genera with  
52 negative LFC values (grey) are depleted in the gut microbiota-derived EVs compared to the fecal  
53 samples.



54

55 **Supplemental figure 10.** Differentially abundant genera between gut microbiota-derived EV and  
 56 fecal samples in the non-disease dataset, with 95% confidence intervals for the mean differential  
 57 abundance for all genera. Genera with positive LFC values (pink) are enriched, and genera with  
 58 negative LFC values (grey) are depleted in the gut microbiota-derived EVs compared to the fecal  
 59 samples.



60

61 **Supplemental figure 11.** Differentially abundant genera between gut microbiota-derived EV and  
 62 fecal samples in the colorectal cancer dataset, with 95% confidence intervals for the mean  
 63 differential abundance for all genera. Genera with positive LFC values (pink) are enriched, and  
 64 genera with negative LFC values (grey) are depleted in the gut microbiota-derived EVs compared to  
 65 the fecal samples.