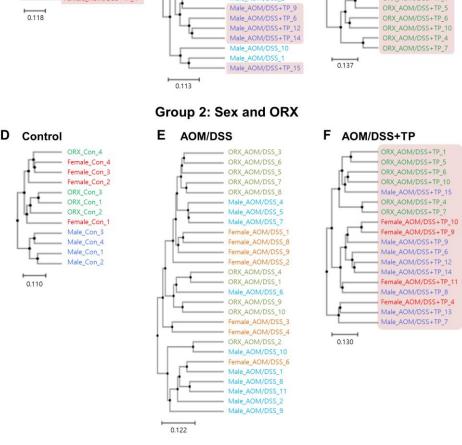
Group 1: AOM/DSS and TP addition В ORX **Female** Male ORX_Con_4 Male_Con_4 Male_Con_1 Female AOM/DSS 9 ORX Con 3 ORX_Con_1 Female_AOM/DSS_1 Female_AOM/DSS_8 Male_Con_2 ORX_Con_2 Male_AOM/DSS_6 ORX_AOM/DSS_3 Female_AOM/DSS+TP_10 ORX_AOM/DSS_6 Female_AOM/DSS+TP_9 Male_AOM/DSS_5 ORX_AOM/DSS_5 Female_Con_2 ORX AOM/DSS 7 Male_AOM/DSS+TP_13 ORX_AOM/DSS_8 Male_AOM/DSS+TP_7 Female_Con_4 ORX_AOM/DSS_4 Female Con 3 ORX AOM/DSS 1 Female_AOM/DSS+TP_11 ORX_AOM/DSS_9 ORX_AOM/DSS_10 Male_AOM/DSS+TP_8 Female AOM/DSS ORX AOM/DSS 2 ORX_AOM/DSS+TP_1 Female_AOM/DSS+TP_4 Male_AOM/DSS+TP_9 ORX_AOM/DSS+TP_5 0.118 Male_AOM/DSS+TP_6 Male_AOM/DSS+TP_12 ORX AOM/DSS+TP 6 ORX_AOM/DSS+TP_10 Male_AOM/DSS+TP_14 ORX_AOM/DSS+TP_4 ORX_AOM/DSS+TP_7 0.137 Male_AOM/DSS+TP_15 0.113 Group 2: Sex and ORX



S5 Fig. Beta diversity of gut microbiota at the species level. Unweighted pair-group method with arithmetic mean (UPGMA) tree of Generalized Unifrac distances of the stool samples from group 1 (females, males, and ORXs including control, AOM/DSS, and AOM/DSS+TP group) (A-C) and group 2 (control, AOM/DSS, and AOM/DSS+TP groups including female, male, and ORX mice) (D-F). AOM, azoxymethane; CON, control; DSS, dextran sulfate sodium salt; ORX, orchiectomized; TP, testosterone propionate.

Reference

1. Song CH, Kim N, Nam RH, Choi SI, Yu JE, Nho H, et al. Testosterone strongly enhances azoxymethane/dextran sulfate sodium-induced colorectal cancer development in C57BL/6 mice. Am J Cancer Res. 2021;11:3145-62.