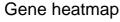
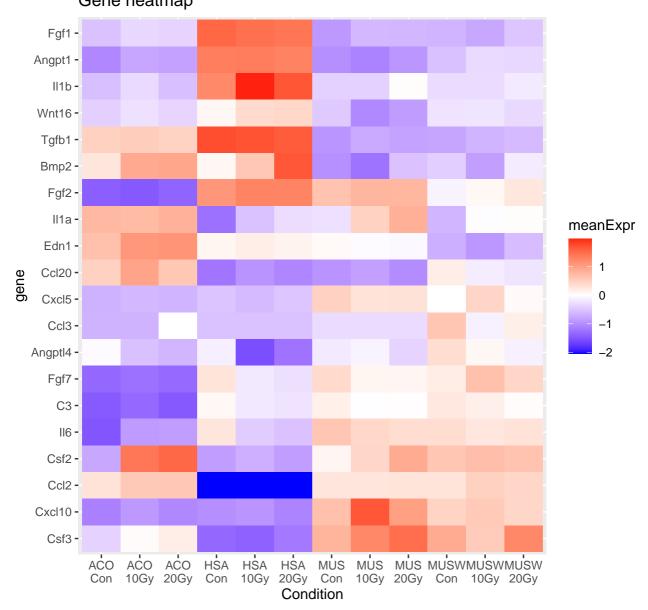
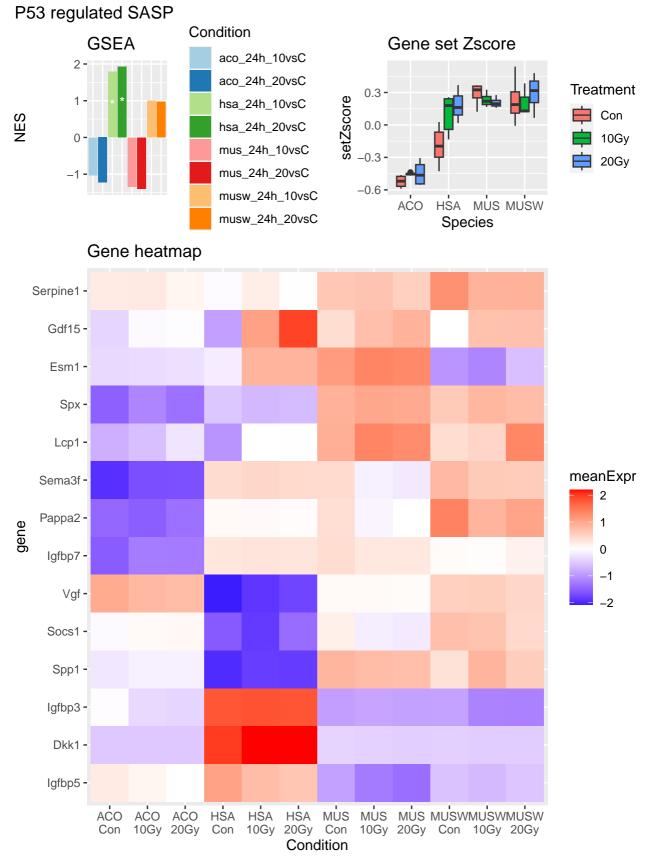
NFkB regulated SASP Condition **GSEA** Gene set Zscore aco_24h_10vsC 2 -0.50 aco_24h_20vsC **Treatment** 0.25 setZscore hsa_24h_10vsC Con NES 0.00 hsa_24h_20vsC 10Gy -0.25mus_24h_10vsC 20Gy -0.50 mus_24h_20vsC musw_24h_10vsC HSA MUS MUSW musw_24h_20vsC **Species**







Fibroblast SASP factors Condition **GSEA** Gene set Zscore aco_24h_10vsC 0.50 aco_24h_20vsC **Treatment** 0.25 setZscore hsa_24h_10vsC Con NES 0.00 hsa_24h_20vsC 10Gy -0.25 mus_24h_10vsC 20Gy -0.50 mus_24h_20vsC musw_24h_10vsC HSA MUS MUSW musw_24h_20vsC **Species** Gene heatmap 116 -Fgf7 -Cxcl5 -Plaur -AxI -Igfbp4 -Fgf2 -Igfbp7 meanExpr Igfbp6 -2 Tnfrsf26 -1 Lep -0 Pgf --1 Mmp1a --2 Vegfa -Ccl20 -Icam1 -Timp2 -Igfbp2 -II1a -Csf2 -

HSA

10Gy

HSA

20Gy Con

Condition

MUS

MUS MUS MUSWMUSWMUSW

10Gy 20Gy Con 10Gy 20Gy

HSA

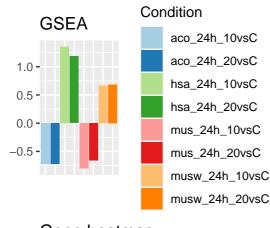
Con

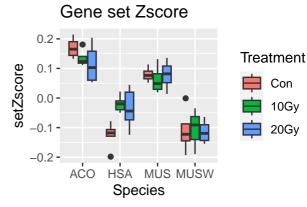
10Gy 20Gy

Ccl2 -

Core factors GSEA

NES





meanExpr

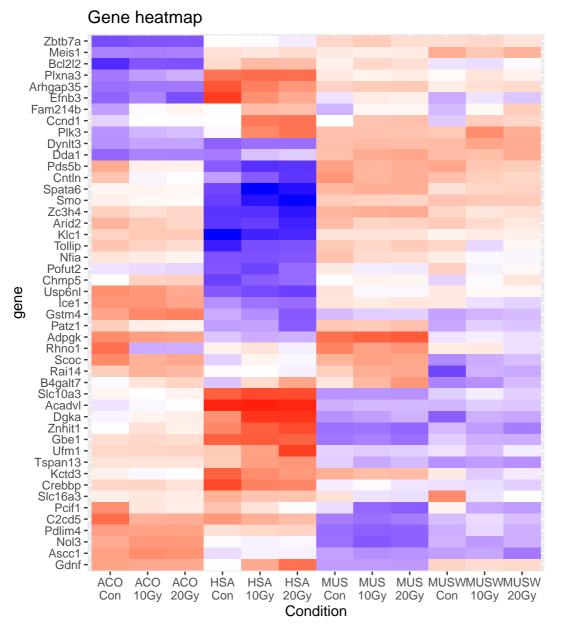
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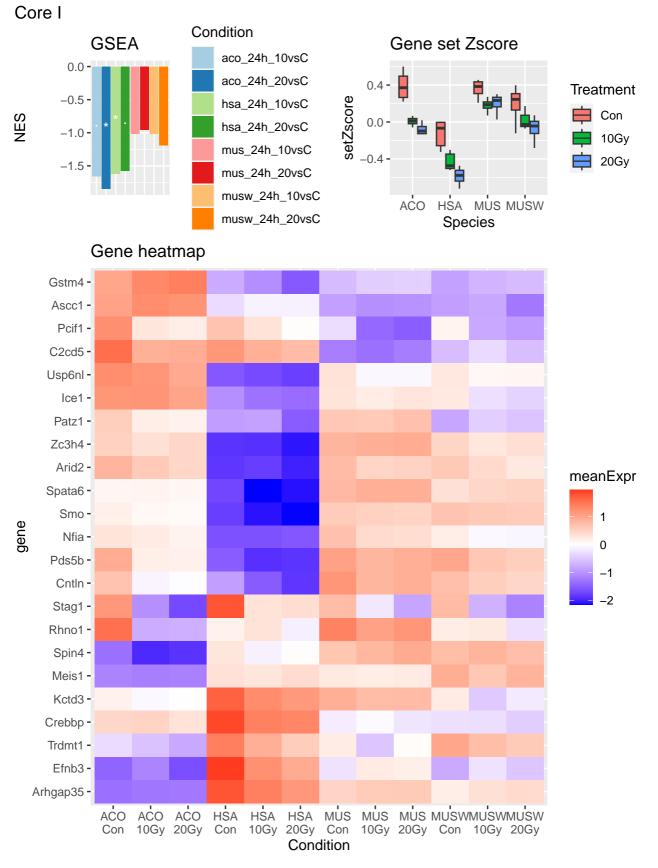
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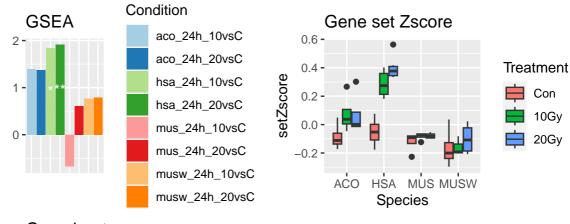
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-2

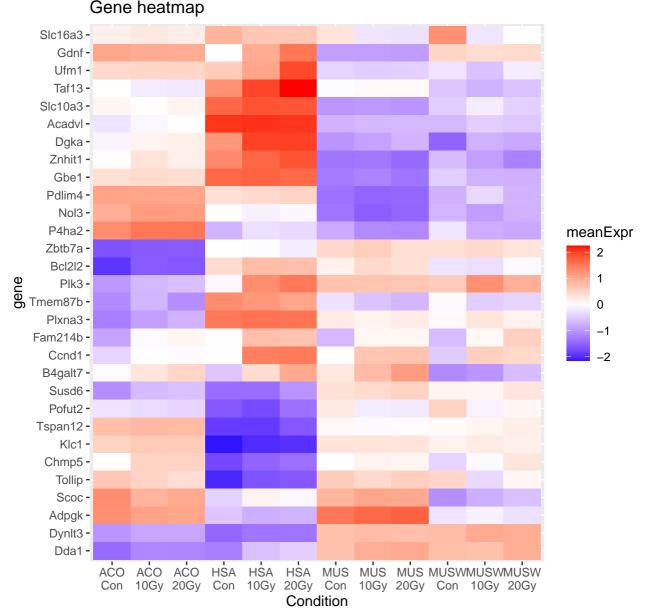




Core II

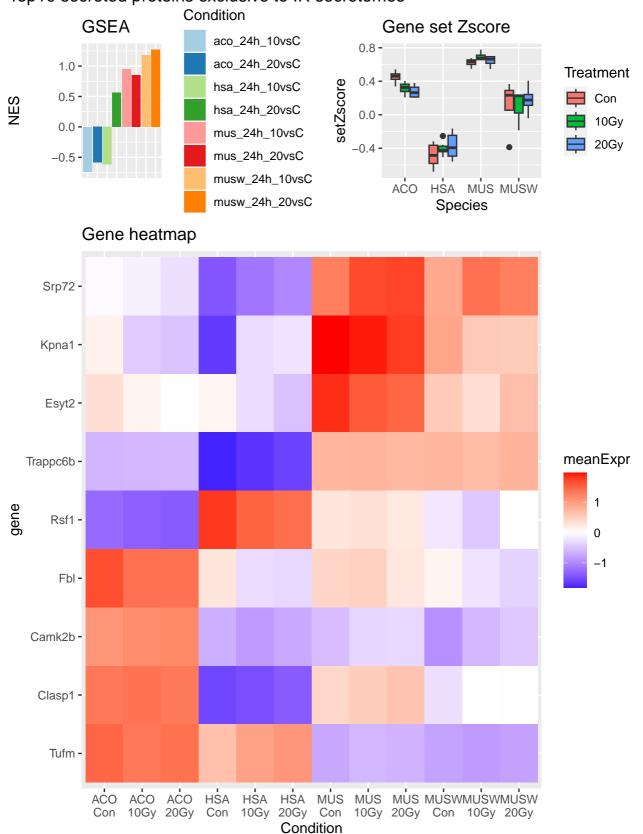


Gene heatmap

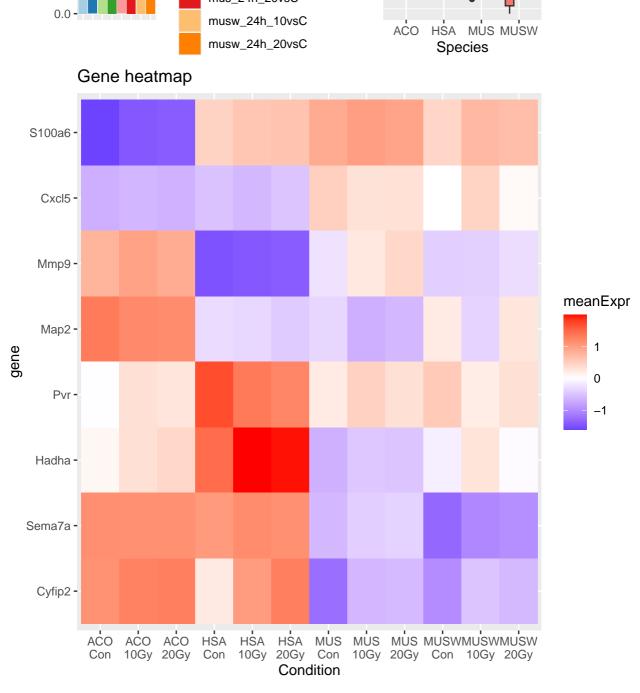


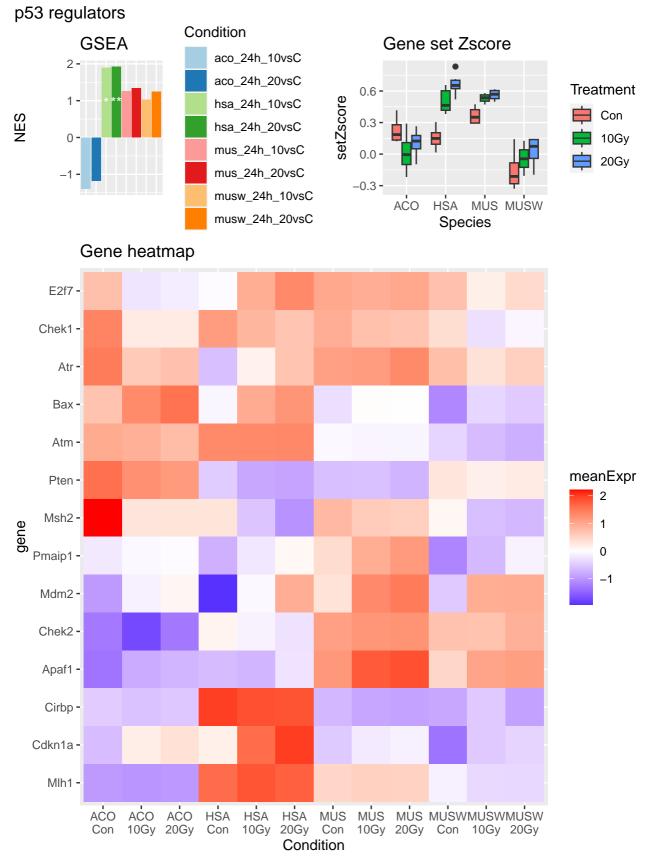
Fibroblast secretory SASP Condition **GSEA** Gene set Zscore aco_24h_10vsC 1.0 aco_24h_20vsC **Treatment** setZscore 0.5 hsa_24h_10vsC Con NES hsa_24h_20vsC 0.0 10Gy mus_24h_10vsC -0.5 **-**20Gy mus_24h_20vsC −1.0 musw_24h_10vsC HSA MUS MUSW musw_24h_20vsC **Species** Gene heatmap Lgals3bp -Hspa1b -Vcan -Calr -TncmeanExpr 1 S100a11 -0 Cd44 --1 -2 Hspa5 -Hsp90b1 -Hsp90aa1 -Hspa8 -Hsp90ab1 -ACO ACO ACO HSA HSA MUS MUSWMUSWMUSW HSA MUS 10Gy 20Gy Con 10Gy 20Gy Con 10Gy 20Gy Con 10Gy 20Gy Condition

Top10 secreted proteins exclusive to IR secretomes



Top10 secreted proteins exclusive to RAS secretomes Condition **GSEA** Gene set Zscore aco_24h_10vsC 1.5 aco_24h_20vsC 0.50 **Treatment** hsa_24h_10vsC 1.0 -0.25 -Con hsa_24h_20vsC 10Gy 0.00 -0.5 mus_24h_10vsC 20Gy -0.25 mus_24h_20vsC 0.0 musw_24h_10vsC HSA MUS MUSW musw_24h_20vsC **Species** Gene heatmap S100a6 -Cxcl5 -Mmp9 meanExpr Map2 -1 0 Pvr --1 Hadha -





Modifiers and downstream Condition **GSEA** Gene set Zscore aco_24h_10vsC 1.5 -1.0 aco_24h_20vsC **Treatment** setZscore hsa_24h_10vsC 0.5 -Con 1.0 hsa_24h_20vsC 10Gy 0.0 mus_24h_10vsC 0.5 -20Gy -0.5 mus_24h_20vsC 0.0 musw_24h_10vsC HSA MUS MUSW musw_24h_20vsC **Species** Gene heatmap Pcna -Ep300 -Bax meanExpr Gadd45a -2 1 Fas -0 -1 Cdkn1a -Sfn -Pmaip1 -Cdc25c -HSA HŚA MUS MUS MUSWMUSWMUSW ACO HSA 20Gy Con Con 10Gy 20Gy Con 10Gy 10Gy 20Gy Con 10Gy 20Gy Condition