

Transfer of stem cell niche-residential regulatory T cells prevents post-irradiation bone marrow injury

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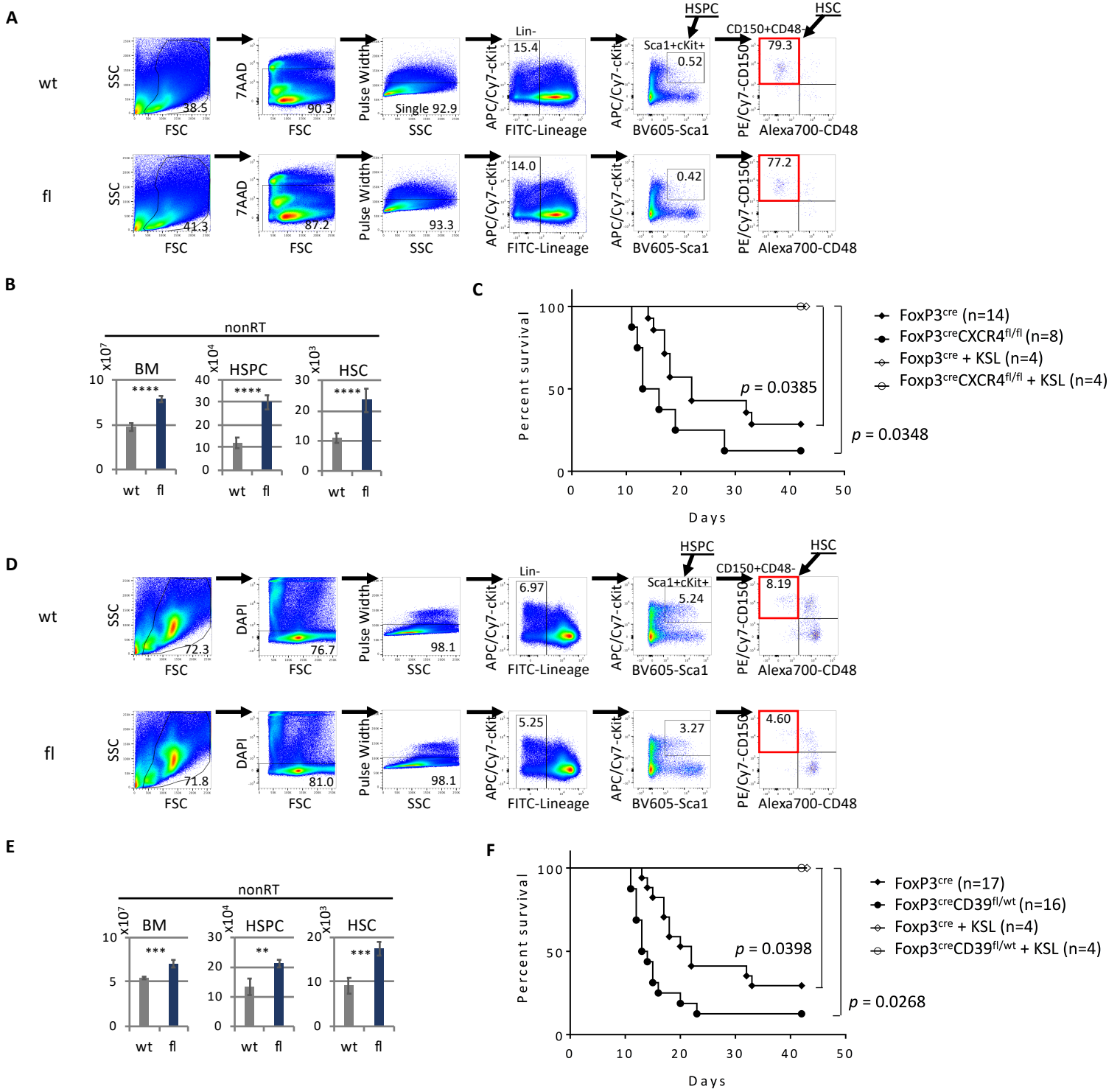
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Supplementary Figure 1. Reduction of niche Tregs and CD39 deletion in Tregs exacerbated post-irradiation BM failure.

A. Gating strategy for flow cytometric analysis of HSPCs and HSCs in FoxP3^{cre} and FoxP3^{cre}Cxcr4^{fl/fl} mice 10 days after 5 Gy irradiation. **B.** Numbers of BM cells, HSPCs and HSCs in non-irradiated Foxp3^{cre} and Foxp3^{cre}Cxcr4^{fl/fl} mice. N=3-5/group. **C.** Survival of 9 Gy-irradiated Foxp3^{cre} or Foxp3^{cre}CXCR4^{fl/fl} mice which received tail vein injection of 20,000 HSPCs (Sca1+cKit+Lin⁻ cells) per mouse on day 0. **D.** Gating strategy for flow cytometric analysis of HSPCs and HSCs in FoxP3^{cre} and FoxP3^{cre}CD39^{fl/wt} mice 28 days after 8.5 Gy irradiation. **E.** Numbers of BM cells, HSPCs and HSCs in non-irradiated Foxp3^{cre} and Foxp3^{cre}CD39^{fl/wt} mice. N=3/group. **F.** Survival of 9 Gy-irradiated Foxp3^{cre} or Foxp3^{cre}CD39^{fl/wt} mice that received tail vein injection of 20,000 HSPCs (Sca1+cKit+Lin⁻ cells) per mouse on day 0. ****: $p < 0.0001$ ***: $p < 0.001$ **: $p < 0.01$ *: $p < 0.05$



Supplementary Figure 2. CD150^{high} BM Treg transfer mitigates post-irradiation BM injury.

Gating strategy for flow cytometric analysis of HSPCs in B6 mice receiving CD150^{high} BM Tregs, CD150^{low} BM Tregs, LN Tregs and vehicle. Analysis was performed 10 days after 7 Gy-irradiated B6 mice receiving CD150^{high} BM Tregs, CD150^{low} BM Tregs, LN Tregs and vehicle.

