

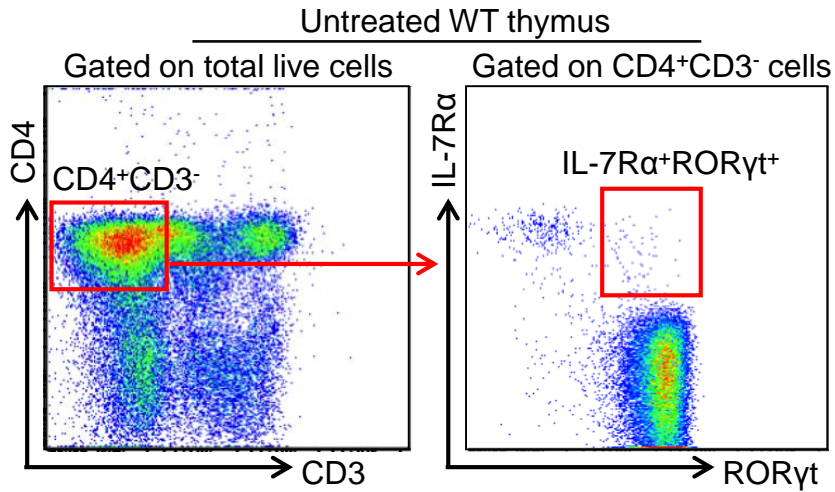
Appendix

Administration of RANKL boosts thymic regeneration upon bone marrow transplantation

Noella Lopes, Hortense Vachon, Julien Marie and Magali Irla

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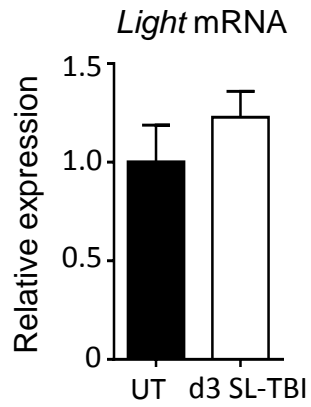
Appendix Figure S1



Appendix Figure S1. Gating strategy used to identify LTi cells in the thymus.

Thymic cells from untreated WT mice were analyzed by flow cytometry for the expression of CD4 and CD3. CD4⁺CD3⁻ cells were analyzed for the expression of IL-7Rα and RORγt. LTi cells were identified as CD4⁺CD3⁻IL-7Rα⁺RORγt⁺.

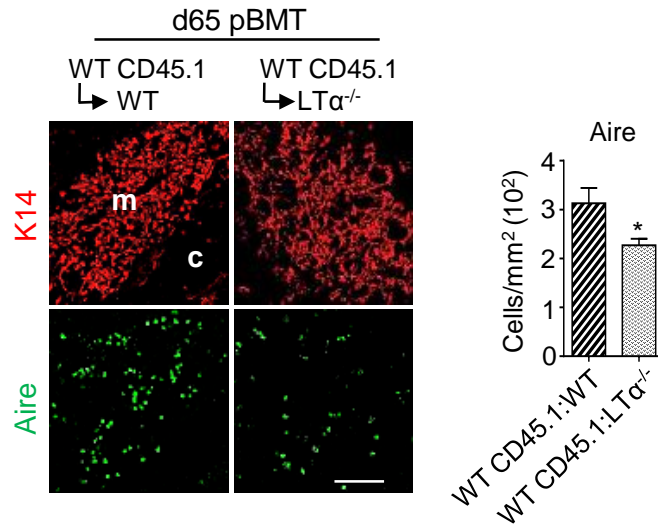
Appendix Figure S2



Appendix Figure S2: LIGHT mRNA is not upregulated after SL-TBI.

The expression of *Light* mRNA was measured by qPCR in the total thymus isolated from UT WT mice (n=4) or at d3 SL-TBI (n=4). Data information: Data are shown as mean \pm SEM.

Appendix Figure S3

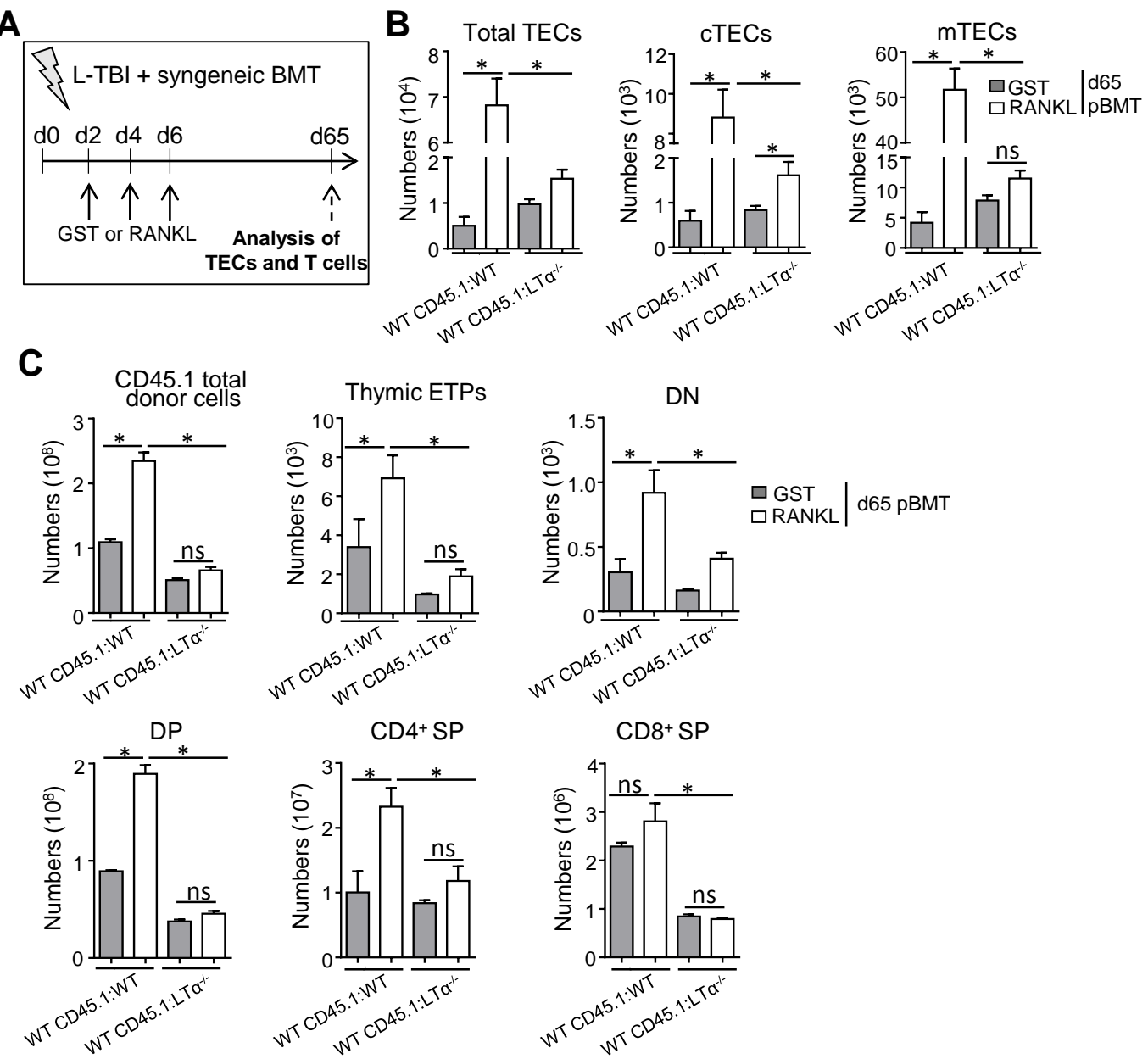


Appendix Figure S3 : Aire⁺ mTEC regeneration is altered at d65 pBMT in $LT\alpha^{-/-}$ recipient mice.

Thymic sections from WT CD45.1:WT and WT CD45.1: $LT\alpha^{-/-}$ chimeras at d65 after BMT were stained for the expression of K14 and Aire. m and c denote the medulla and the cortex, respectively. The histogram shows the density of Aire⁺ mTECs in medullary areas. Fifteen sections were quantified. Scale bar, 100 μ m.

Data information: Data are shown as mean \pm SEM. Exact P-values are provided in Appendix Table S2.

Appendix Figure S4



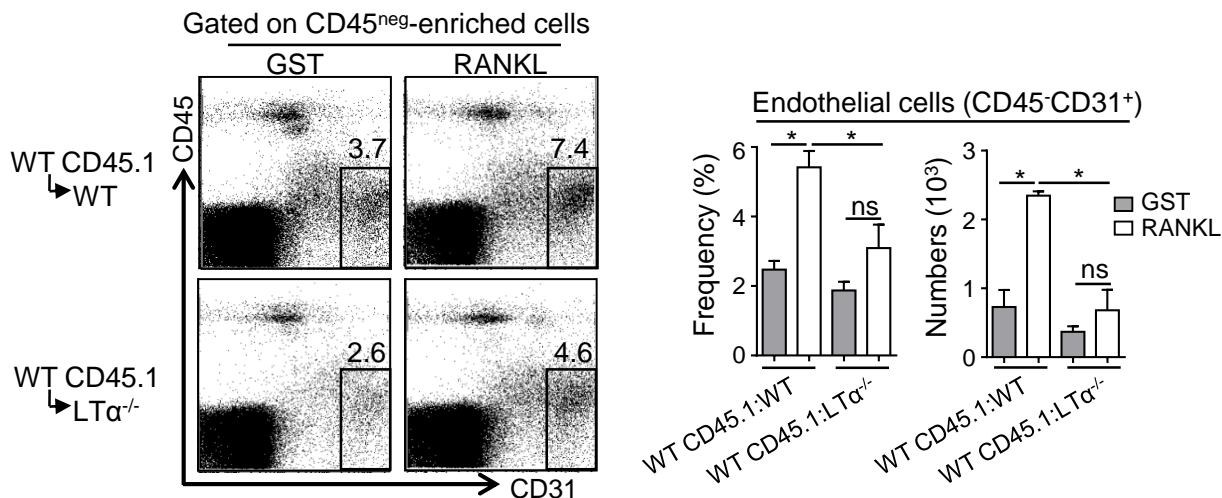
Appendix Figure S4: RANKL administration boosts TEC regeneration and *de novo* thymopoiesis in an LTα-dependent manner during BMT.

A Experimental setup: WT CD45.1:WT and WT CD45.1:LTα^{-/-} chimeras were treated with GST or RANKL-GST proteins at d2, d4 and d6 after BMT and TEC regeneration and T-cell reconstitution were analyzed at d65 after BMT.

B-C Histograms show numbers of total TECs, cTECs and mTECs (B) and total donor cells and T-cell subsets (ETPs, DN, DP, CD4⁺ SP and CD8⁺ SP cells) of CD45.1 origin (C) in the thymus.

Data information: Data are shown as mean ± SEM and are pooled of 2 independent experiments with similar results (n=3 mice per group). Exact P-values are provided in Appendix Table S2.

Appendix Figure S5

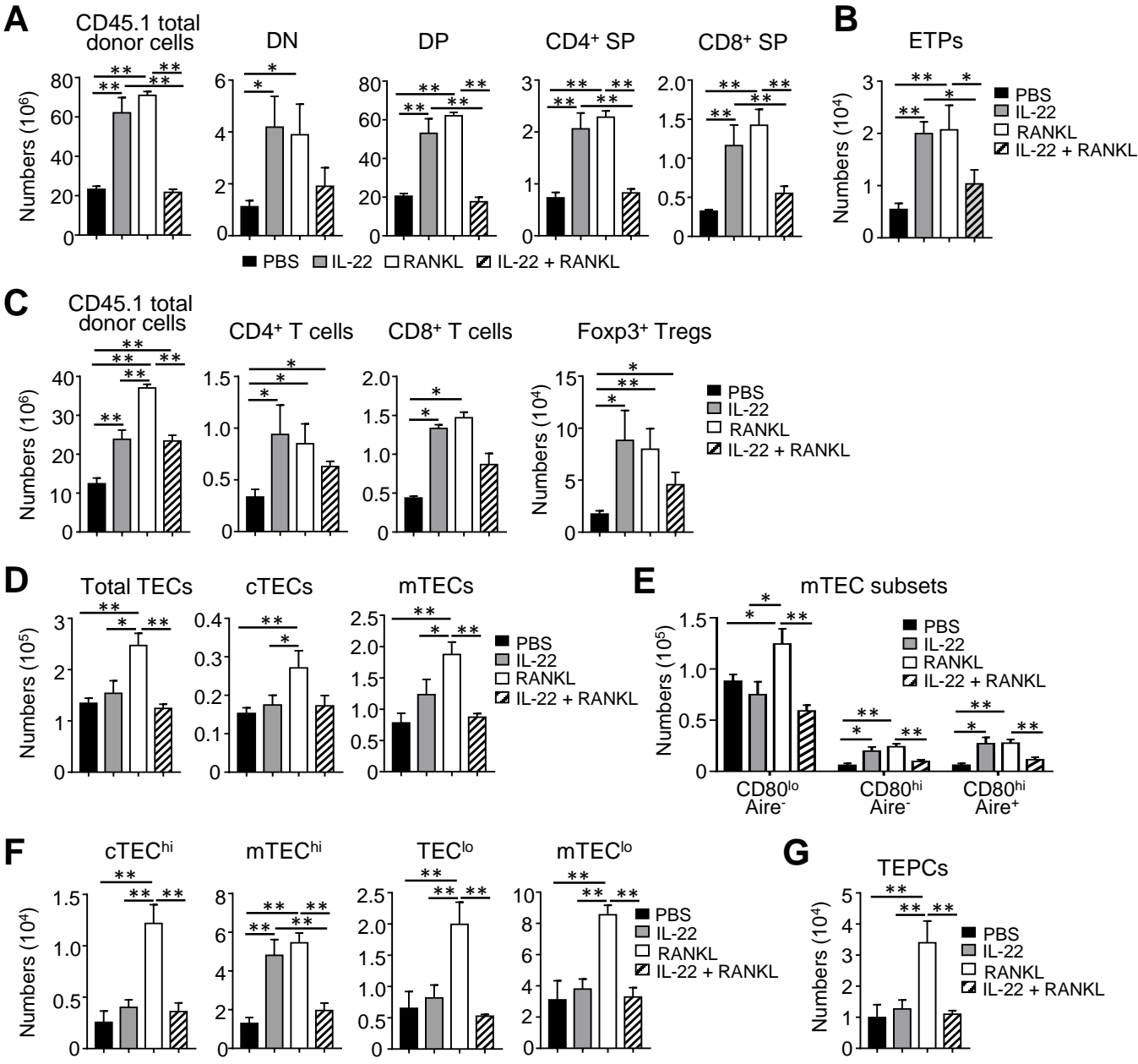


Appendix Figure S5: RANKL treatment increases numbers of thymic endothelial cells in an LTα-dependent manner during BMT.

Flow cytometry profiles, frequencies and numbers of CD45⁻CD31⁺ endothelial cells from the thymus of WT CD45.1:WT and WT CD45.1:LTα^{-/-} chimeras treated with GST or RANKL-GST proteins at d2, d4 and d6 after BMT and analyzed at d21 after BMT.

Data are shown as mean ± SEM and are pooled of 2 independent experiments with similar results (n=3 mice per group). Exact P-values are provided in Appendix Table S2.

Appendix Figure S6

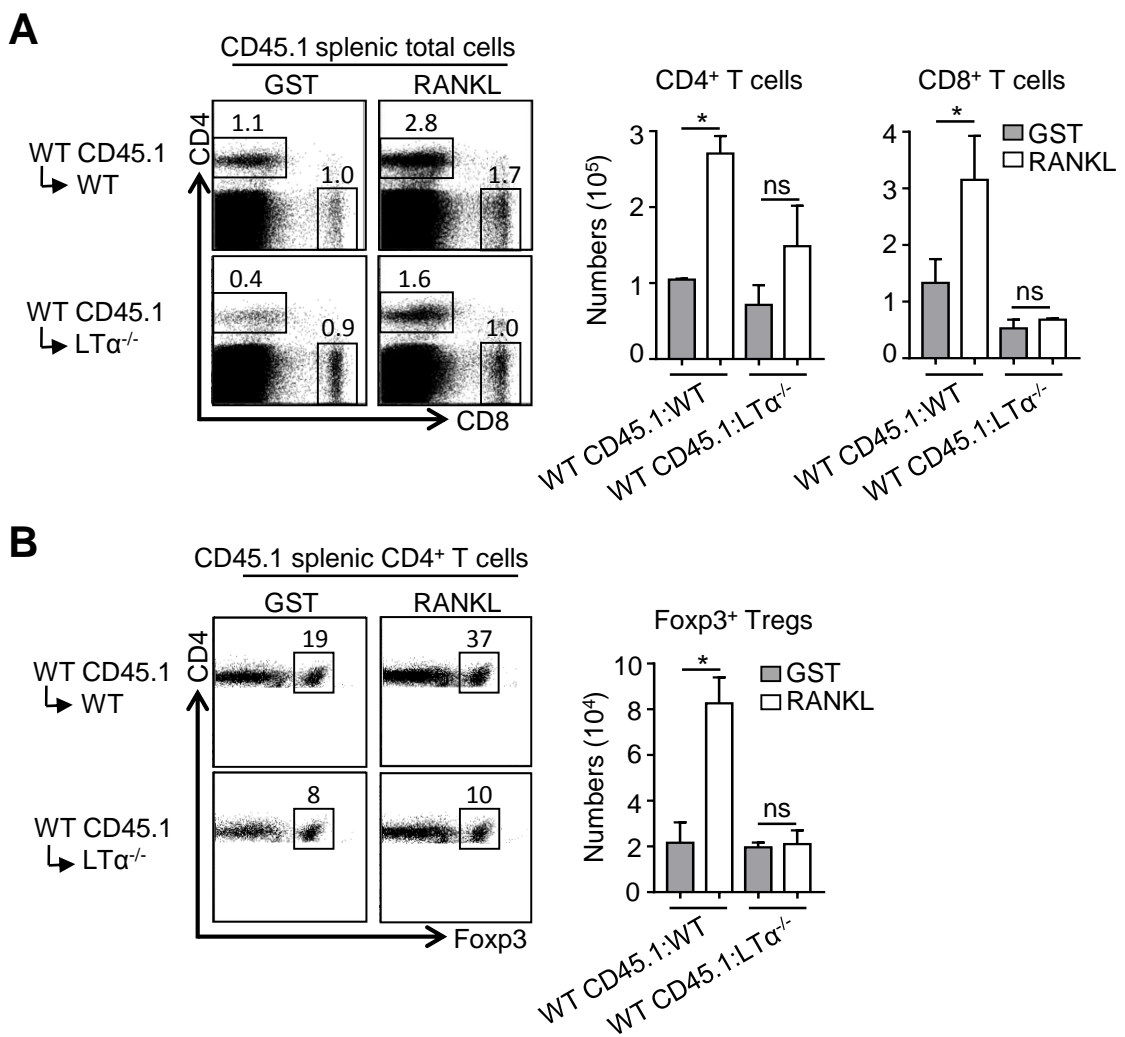


Appendix Figure S6. The administration of RANKL and IL-22 alone boosts similarly thymopoiesis upon BMT but RANKL shows a superior capacity on TEC regeneration.

A-B Numbers of total cells and T-cell subsets (A) and ETPs (B) of CD45.1 donor origin analyzed in the thymus.
 C Numbers of total donor cells, CD4⁺ and CD8⁺ T cells as well as CD4⁺Foxp3⁺ Tregs from CD45.1 donor origin in the spleen.
 D,E Numbers of total TECs, cTECs, mTECs (D) and mTEC subsets (CD80^{lo}Aire⁻, CD80^{hi}Aire⁻ and CD80^{hi}Aire⁺) (E) analyzed at d21 pBMT in CD45^{neg}-enriched cells by AutoMACS from WT CD45.1:WT chimeras treated with PBS, IL-22, RANKL or IL-22+RANKL at d2, d4 and d6 after BMT.
 F,G Histograms show numbers of cTEC^{hi}, mTEC^{hi}, TEC^{lo}, mTEC^{lo} (F) and TEPC-enriched (G).

Data are shown as mean ±SEM and are pooled of 2 independent experiments with similar results (n=3 mice per group). Exact P-values are provided in Appendix Table S2.

Appendix Figure S7

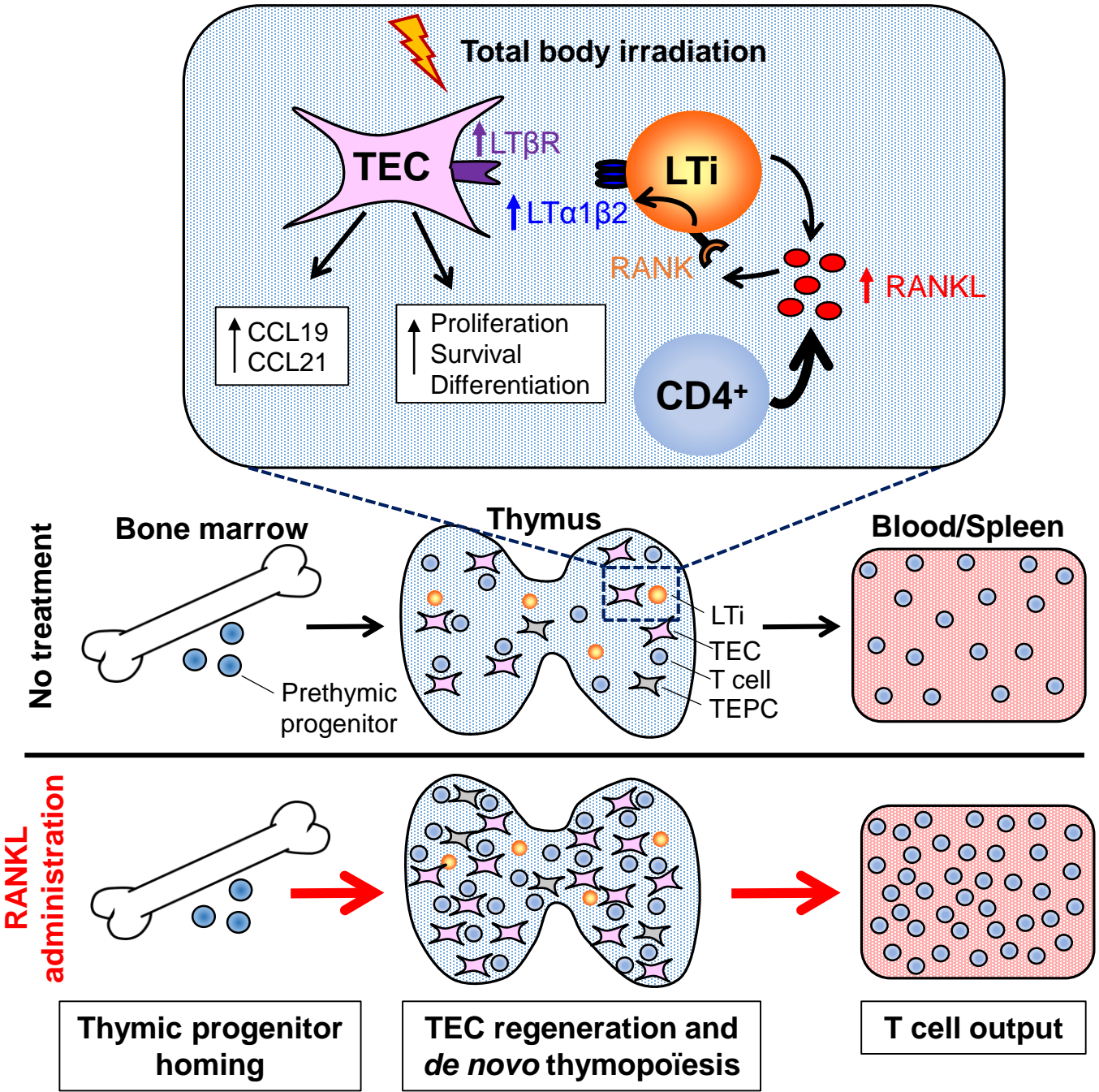


Appendix Figure S7. Administration of RANKL protein boosts peripheral T-cell reconstitution in an LT α -dependent manner upon BMT in aged mice that show early thymic involution.

Flow cytometry profiles and numbers of CD4⁺ and CD8⁺ T cells (A) as well as CD4⁺Foxp3⁺ Tregs (B) in the spleen from WT CD45.1:WT and WT CD45.1:LT $\alpha^{-/-}$ mice of 6-8 months of age treated with GST or RANKL at d2, d4 and d6 pBMT and analyzed at d21 pBMT. Significance relative to WT CD45.1:WT chimeras.

Data are shown as mean \pm SEM and are pooled of 2 independent experiments with similar results (n=3 mice per group). Exact P-values are provided in Appendix Table S2.

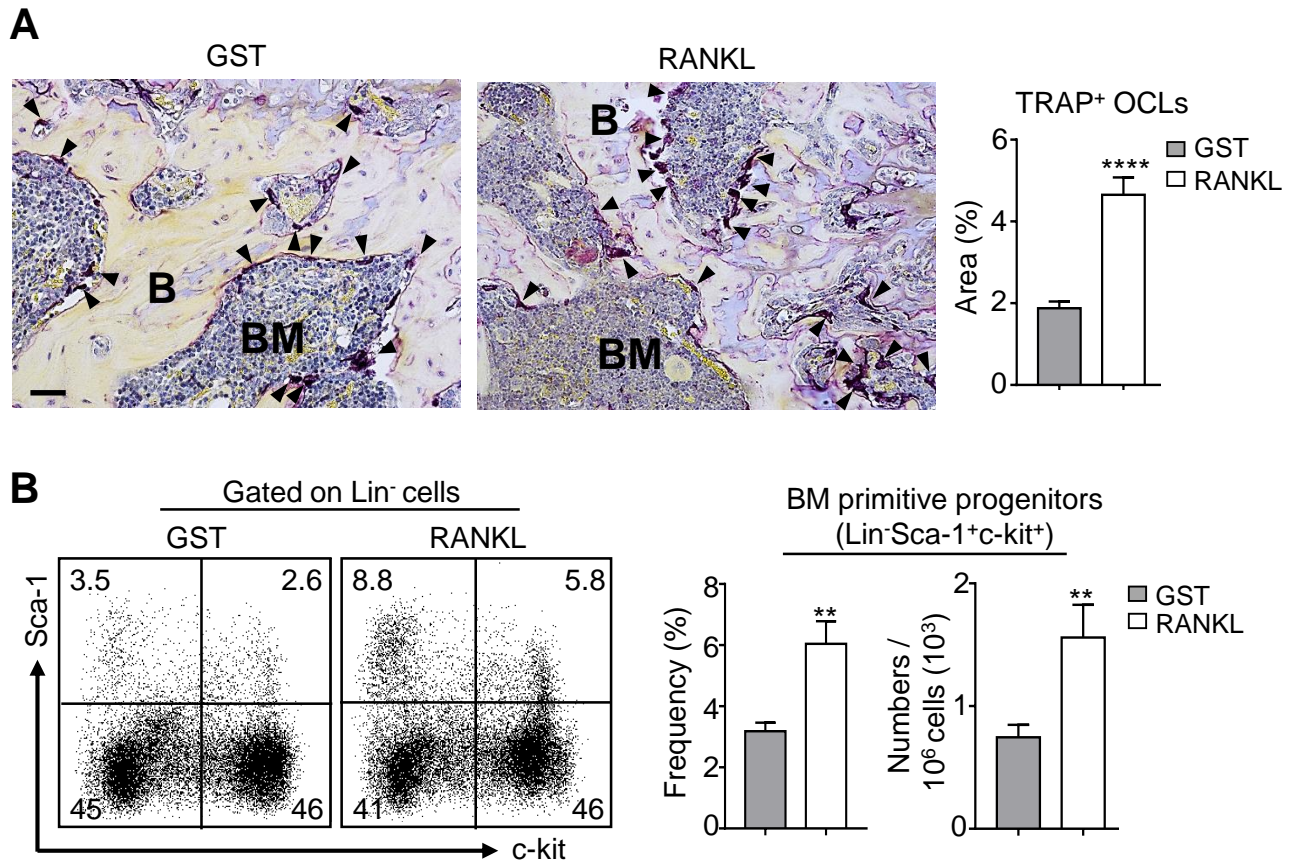
Appendix Figure S8



Appendix Figure S8. RANKL administration boosts thymic regeneration upon BMT in an LTα-dependent manner.

After total body irradiation (TBI), CD4⁺ SP and LTi cells upregulate RANKL, which in turn increases LTα1β2 expression specifically in LTi cells. TBI also induces the upregulation of LTβR expression in all TEC subsets including TEPC-enriched cells. The expression of LTα is crucial for TEC and T-cell recovery. Importantly, the *ex vivo* administration of RANKL protein boosts TEC proliferation, survival and differentiation as well as the expansion of TEPC-enriched cells and therefore enhances TEC regeneration. Furthermore, RANKL treatment induces chemokines in TECs and adhesion molecules in endothelial cells involved in thymus homing, which ameliorates the thymic entry of T-cell progenitors, *de novo* thymopoiesis and peripheral T-cell recovery after BMT.

Appendix Figure S9



Appendix Figure S9. RANKL administration upon BMT induces the development of TRAP⁺ osteoclasts and increases primitive progenitors in the BM.

A TRAP staining of femur epiphysis and metaphysis analyzed at d21 pBMT from WT CD45.1: WT chimeras injected with GST or RANKL at d2, d4 and d6 after BMT. Thirty five sections were quantified for each condition. Arrowheads indicate active TRAP⁺ OCL stained in purple. Scale bar, 1mm. B: bone; BM: bone marrow.

B Flow cytometry profiles, percentage and numbers of BM primitive progenitors (Lin⁻Sca-1⁺c-kit⁺) analyzed at d21 pBMT from WT CD45.1: WT chimeras injected with GST or RANKL.

Data are shown as mean ±SEM and are pooled of 2 independent experiments with similar results (n=3 mice per group). Exact P-values are provided in Appendix Table S2.

Appendix Table S1: Primers used for qRT-PCR

Gene name	Forward (5'-3')	Reverse (5'-3')
Actin	CAGAAGGAGATTACTGCTCTGGCT	GGAGCCACCGATCCACACA
LT α	GCTTGGCACCCCTCCTGTC	GATGCCATGGGTCAAGTGCT
LIGHT	GGGCTGGTTTCTCCTGAGAC	GCTTCTCCCAGGAGCCTTTG
IL-22	ACAGGTTCCAGCCCTACATG	GTCGTCACCGCTGATGTG
IL-23	CCCGTATCCAGTGTGAAGATG	CCCTTTGAAGATGTCAGAGTCA
RANK	TGCTTGCTGCATAAAGTCTG	AGGTTTGCATTTGTCTGTGG
RANKL	CGCTCTGTTCTGTACTTTC	AGAGTCGAGTCCTGCAAATC
CCL25	GCCTGGTTGCCTGTTTTGTT	ACCCAGGCAGCAGTCTTCAA
CCL19	GCTAATGATGCGGAAGACTG	ACTCACATCGACTCTCTAGG
CCL21	GCTGCCTTAGTACAGCCAG	GTGTCTGTTCAAGTCTCTTGC
ICAM-1	CCTGGTCACCGTTGTGATCC	TCAGCCACRGAGTCTCCAAG
VCAM-1	TGCCGAGCTAAATTACACATTG	CCTTGTGGAGGGATGTACAGA
Selp	CCTAGGAACATACGGAGTCTTCACTA	CCTGAGAAATCGAATGAGACATTG
EpCAM	AAAGCCCCTACGACCATCAGA	TCTGATTCAGCTTATATCGAGATGTGA
CD31	ACGCTGGTGCTCTATGCAAG	TCAGTTGCTGCCCATTCATCA
Aire	GCATAGCATCCTGGACGGCTTCC	CTGGGCTGGAGACGCTCTTTGAG
SP1	TGGTGAAAATACTGGCTCTGAA	GCAGTGTTGGTATCATCAGTG
SP2	TCAGACCAAAGTGGGTGACA	CTCTTGTCTCATTGGAGGT
Casein β	CTCCACTAAAGGACTTGACAG	ACCTTCTGAAGTTTCTGCTC
Bax	CTCAAGGCCCTGTGCACTAA	CACGGAGGAAGTCCAGTGTC
Bcl-xl	CGCCGGAGATAGATTTGAATAACC	CCCGGTTGCTCTGAGACATT
Bid	GACTCTGAGGTCAGCAACGG	CCTCCCAGTAAGCTTGACACA
Bak	CCAAGATCGCCTCCAGCCTA	CACGCTGGTAGACGTACAGG
Fezf2	CAGCACTCTCTGCAGACACAA	TGCCGCACTGGTTACTTA
Apoc3	CCTCTTGGCTCTCCTGGCATCT	TGCTCCAGTAGCCTTTCAGGG
Fabp9	CACTGCAGACAACCGAAAAG	TCTGTTTGCCAAGCCATTTT
Resp18	TCAGTCAGCAACAAGGTTGAGGCCAC	CCAGCCAAGATGCAGAGTTCGTAAAG

Appendix Table S2: Exact p-values derived from statistical tests.

Figure	Comparison	p-values	Category	Test
Figure 1A	CD45+ cells; UT vs d3 SL-TBI	<0.0001	****	T-test
Figure 1B	DP; UT vs d3 SL-TBI	<0.0001	****	T-test
	CD4+ SP; UT vs d3 SL-TBI	<0.0001	****	T-test
	CD8+ SP; UT vs d3 SL-TBI	<0.0001	****	T-test
Figure 1C	LTi; UT vs d3 SL-TBI	0.009	**	T-test
Figure 1D	CD4+ SP; UT vs d3 SL-TBI	0.0500	*	Mann Whitney test, two tailed
	LTi ; UT vs d3 SL-TBI	0.0143	*	Mann Whitney test, two tailed
	LTi ; UT vs d3 L-TBI	0.0143	*	Mann Whitney test, two tailed
Figure 1E	WT UT vs WT d3 SL-TBI	0.003	***	Mann Whitney test, one tailed
	WT d3 SL-TBI vs Rag2 ^{-/-} d3 SL-TBI	0.0159	*	Mann Whitney test, one tailed
	Rag2 ^{-/-} d3 SL-TBI vs Rag2 ^{-/-} d3 SL-TBI	0.0368	*	Mann Whitney test, one tailed
Figure 1F	LTi ; d0 vs d3	0.0006	***	Mann Whitney test, two tailed
	LTi ; d0 vs d6	0.0003	***	Mann Whitney test, two tailed
	LTi ; d0 vs d10	0.0003	***	Mann Whitney test, two tailed
	CD4+; d0 vs d3	0.0006	***	Mann Whitney test, two tailed
	CD4+ ; d0 vs d6	0.0003	***	Mann Whitney test, two tailed
	CD4+; d0 vs d10	0.0197	*	Mann Whitney test, two tailed
	CD4+ SP vs LTi post-SL-TBI	0.0417	*	nonparametric Spearman correlation test
Figure 2A	Total TECs; UT vs PBS	<0.0001	****	Mann Whitney test, two tailed
	Total TECs; GST vs RANKL	0.0286	*	Mann Whitney test, two tailed
	Total TECs; isotype vs IK22/5	0.0286	*	Mann Whitney test, two tailed
	Total TECs; PBS vs IK22/5	0.0002	***	Mann Whitney test, two tailed
	Total TECs; RANKL vs IK22/5	0.095	*	Mann Whitney test, two tailed
	cTECs; UT vs PBS	0.0007	***	Mann Whitney test, two tailed
	cTECs; GST vs RANKL	0.0238	*	Mann Whitney test, two tailed
	cTECs; isotype vs IK22/5	0.0087	**	Mann Whitney test, two tailed
	cTECs; PBS vs IK22/5	0.0007	***	Mann Whitney test, two tailed
	cTECs; RANKL vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	mTECs; UT vs PBS	0.0007	***	Mann Whitney test, two tailed
	mTECs; GST vs RANKL	0.0500	*	Mann Whitney test, two tailed
	mTECs; isotype vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	mTECs; PBS vs IK22/5	0.0007	***	Mann Whitney test, two tailed
	mTECs; RANKL vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	CD80 ^{lo} Aire-; UT vs PBS	0.0007	***	Mann Whitney test, two tailed
	CD80 ^{hi} Aire-; UT vs PBS	0.0004	***	Mann Whitney test, two tailed
	CD80 ^{hi} Aire-; GST vs RANKL	0.0167	*	Mann Whitney test, two tailed
	CD80 ^{hi} Aire-; isotype vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	CD80 ^{hi} Aire-; PBS vs IK22/5	0.0004	***	Mann Whitney test, two tailed
	CD80 ^{hi} Aire-; RANKL vs IK22/5	0.0012	**	Mann Whitney test, two tailed
	CD80 ^{hi} Aire+; UT vs PBS	0.0004	***	Mann Whitney test, two tailed
	CD80 ^{hi} Aire+; GST vs RANKL	0.0079	**	Mann Whitney test, two tailed
	CD80 ^{hi} Aire+; isotype vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	CD80 ^{hi} Aire+; PBS vs IK22/5	0.0004	***	Mann Whitney test, two tailed
	CD80 ^{hi} Aire+; RANKL vs IK22/5	0.0043	**	Mann Whitney test, two tailed

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Figure 2B	cTEChi; UT vs PBS	0.0047	**	Mann Whitney test, two tailed
	cTEChi; GST vs RANKL	0.0500	*	Mann Whitney test, two tailed
	cTEChi; isotype vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	cTEChi; PBS vs IK22/5	0.0007	***	Mann Whitney test, two tailed
	cTEChi; RANKL vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	mTEChi; UT vs PBS	0.0007	***	Mann Whitney test, two tailed
	mTEChi; GST vs RANKL	0.0500	*	Mann Whitney test, two tailed
	mTEChi; isotype vs IK22/5	0.0476	*	Mann Whitney test, two tailed
	mTEChi; PBS vs IK22/5	0.0007	***	Mann Whitney test, two tailed
	mTEChi; RANKL vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	TEClo; UT vs PBS	0.0007	***	Mann Whitney test, two tailed
	TEClo; GST vs RANKL	0.0500	*	Mann Whitney test, two tailed
	TEClo; PBS vs IK22/5	0.0047	**	Mann Whitney test, two tailed
	TEClo; RANKL vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	mTEClo; UT vs PBS	0.0007	***	Mann Whitney test, two tailed
	mTEClo; GST vs RANKL	0.0500	*	Mann Whitney test, two tailed
	mTEClo; isotype vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	mTEClo; PBS vs IK22/5	0.0080	**	Mann Whitney test, two tailed
	mTEClo; RANKL vs IK22/5	0.0238	*	Mann Whitney test, two tailed
Figure 2C	TEPC-enriched cells; UT vs PBS	0.0093	**	Mann Whitney test, two tailed
	TEPC-enriched cells; GST vs RANKL	0.0500	*	Mann Whitney test, two tailed
	TEPC-enriched cells; isotype vs IK22/5	0.0357	*	Mann Whitney test, two tailed
	TEPC-enriched cells; PBS vs IK22/5	0.0016	**	Mann Whitney test, two tailed
	TEPC-enriched cells; RANKL vs IK22/5	0.0357	*	Mann Whitney test, two tailed
Figure 2D	Ki-67+ cTECs; UT vs PBS	0.0007	***	Mann Whitney test, two tailed
	Ki-67+ cTECs; GST vs RANKL	0.0500	*	Mann Whitney test, two tailed
	Ki-67+ cTECs; isotype vs IK22/5	0.0022	**	Mann Whitney test, two tailed
	Ki-67+ cTECs; PBS vs IK22/5	0.0007	***	Mann Whitney test, two tailed
	Ki-67+ cTECs; RANKL vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	Ki-67+ mTECs; UT vs PBS	0.0007	***	Mann Whitney test, two tailed
	Ki-67+ mTECs; GST vs RANKL	0.0500	*	Mann Whitney test, two tailed
	Ki-67+ mTECs; isotype vs IK22/5	0.0022	**	Mann Whitney test, two tailed
	Ki-67+ mTECs; PBS vs IK22/5	0.0007	***	Mann Whitney test, two tailed
	Ki-67+ mTECs; RANKL vs IK22/5	0.0022	**	Mann Whitney test, two tailed
	Ki-67+ TEPC-enriched cells; UT vs PBS	0.0127	*	Mann Whitney test, two tailed
	Ki-67+ TEPC-enriched cells; GST vs RANKL	0.0500	*	Mann Whitney test, two tailed
	Ki-67+ TEPC-enriched cells; isotype vs IK22/5	0.0238	*	Mann Whitney test, two tailed
	Ki-67+ TEPC-enriched cells; PBS vs IK22/5	0.0077	**	Mann Whitney test, two tailed
	Ki-67+ TEPC-enriched cells; RANKL vs IK22/5	0.0238	*	Mann Whitney test, two tailed
Figure 2E	Bax; cTECs; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed
	Bcl-xl; cTECs; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed
	Bax; mTECs; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed
	Bid; mTECs; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed
	Bad; mTECs; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed
Figure 2F	Aire; GST vs RANKL	0.0004	***	T-test
Figure 2G	Aire; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed
	SP1; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed
	SP2; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed
Figure 2H	Selp; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed

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	ICAM-1; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed
	CCL21; GST vs RANKL	0.0500	*	Mann Whitney test, one tailed
Figure 3A	UT vs SL-TBI	0.0040	**	Mann Whitney test, two tailed
Figure 3B	GST vs RANKL	0.0286	*	Mann Whitney test, one tailed
Figure 3C	LT α protein expression in hematopoietic cells after RANKL <i>in vivo</i> stimulation	<0.0001	****	One-Way ANOVA
Figure 3D	UT vs PBS	0.0022	**	Mann Whitney test, one tailed
	Isotype vs IK22/5	0.0500	*	Mann Whitney test, one tailed
Figure 3E	LT α protein expression in hematopoietic cells after RANKL <i>in vivo</i> neutralization	0.003	***	One-Way ANOVA
Figure 3F	LT α mRNA; WT UT vs WT d3 SL-TBI	0.0011	**	Mann Whitney test, two tailed
	LT α mRNA; ZAP-70 ^{-/-} UT vs ZAP-70 ^{-/-} d3 SL-TBI	0.0011	**	Mann Whitney test, two tailed
Figure 3H	RANKL vs LT α during the course of pBMT	0.0100	*	nonparametric Spearman correlation test
Figure 3I	LT α protein; UT vs d3	0.0095	**	Mann Whitney test, two tailed
	LT α protein; UT vs d6	0.0095	**	Mann Whitney test, two tailed
Figure 3J	LT α protein; d3; donor vs host	<0.0001	****	T-test
	LT α protein; d6; donor vs host	<0.0001	****	T-test
Figure 3L	LT α mRNA; UT vs d3 SL-TBI	0.0036	**	Mann Whitney test, one tailed
	LT β mRNA; UT vs d3 SL-TBI	0.0286	*	Mann Whitney test, one tailed
Figure 3M	CD45 ⁺ ; UT vs d3 SL-TBI	0.0022	**	Mann Whitney test, one tailed
Figure 3N	LT α protein; UT vs d3 SL-TBI	0.0022	**	Mann Whitney test, two tailed
	LT α protein; d3 SL-TBI vs d3 L-TBI	0.0022	**	Mann Whitney test, two tailed
Figure 3O	LT β R-Fc; UT vs d3 SL-TBI	0.0500	*	Mann Whitney test, one tailed
	LT β R-Fc; d3 SL-TBI vs d3 L-TBI	0.0500	*	Mann Whitney test, one tailed
Figure 4A	TECs; UT vs d3 SL-TBI	0.0286	*	Mann Whitney test, two tailed
	cTECs; UT vs d3 SL-TBI	0.0286	*	Mann Whitney test, two tailed
	mTECs; UT vs d3 SL-TBI	0.0286	*	Mann Whitney test, two tailed
	TEPCs; UT vs d3 SL-TBI	0.0286	*	Mann Whitney test, two tailed
Figure 4B	D10; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0143	*	Mann Whitney test, one tailed
	D21; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0143	*	Mann Whitney test, one tailed
	D65; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0040	**	Mann Whitney test, one tailed
Figure 4C	cTECs; D21; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0143	*	Mann Whitney test, one tailed
	cTECs; D65; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0040	**	Mann Whitney test, one tailed
	mTECs; D10; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0143	*	Mann Whitney test, one tailed
	mTECs; D21; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0286	*	Mann Whitney test, one tailed
	mTECs; D65; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0079	**	Mann Whitney test, one tailed
Figure 4D	CD80loAire- mTECs; D10; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0286	*	Mann Whitney test, one tailed
	CD80loAire- mTECs; D21; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0143	*	Mann Whitney test, one tailed
	CD80loAire- mTECs; D65; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0040	**	Mann Whitney test, one tailed
	CD80hiAire- mTECs; D10; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0286	*	Mann Whitney test, one tailed
	CD80hiAire- mTECs; D21; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0143	*	Mann Whitney test, one tailed
	CD80hiAire- mTECs; D65; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0079	**	Mann Whitney test, one tailed

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	CD80hiAire+ mTECs; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	CD80hiAire+ mTECs; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	CD80hiAire+ mTECs; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0040	**	Mann Whitney test, one tailed
Figure 4E	cTEChi; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	cTEChi; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	mTEChi; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	mTEChi; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	mTEChi; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0179	*	Mann Whitney test, one tailed
	TEClo; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	TEClo; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	TEClo; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0286	*	Mann Whitney test, one tailed
	mTEClo; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	mTEClo; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	mTEClo; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0079	**	Mann Whitney test, one tailed
Figure 4F	TEPC-enriched cells; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	TEPC-enriched cells; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0079	**	Mann Whitney test, one tailed
	TEPC-enriched cells; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0286	*	Mann Whitney test, one tailed
Figure 4G	Total TECs; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0286	*	Mann Whitney test, one tailed
	Total TECs; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0040	**	Mann Whitney test, one tailed
	cTECs; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	cTECs; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	cTECs; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0040	**	Mann Whitney test, one tailed
	mTECs; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	mTECs; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	mTECs; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0040	**	Mann Whitney test, one tailed
	TEPC-enriched cells; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0286	*	Mann Whitney test, one tailed
	TEPC-enriched cells; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0079	**	Mann Whitney test, one tailed
	TEPC-enriched cells; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0286	*	Mann Whitney test, one tailed
Figure 4H	Aire; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	SP1; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0286	*	Mann Whitney test, one tailed
	SP2; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	Casein β ; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	Fezf2; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	Apoc3; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	Fabp9; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	Resp18; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
Figure 5A	CD45.1 total donor cells; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0061	**	Mann Whitney test, one tailed

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	CD45.1 total donor cells; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0006	***	Mann Whitney test, one tailed
	CD45.1 total donor cells; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0010	***	Mann Whitney test, one tailed
	DN; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	DN; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	DN; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0486	*	Mann Whitney test, one tailed
	DP; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0384	*	Mann Whitney test, one tailed
	DP; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0014	**	Mann Whitney test, one tailed
	DP; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0023	**	Mann Whitney test, one tailed
	CD4+ SP; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	CD4+ SP; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	CD4+ SP; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0079	**	Mann Whitney test, one tailed
	CD8+ SP; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	CD8+ SP; D65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0079	**	Mann Whitney test, one tailed
Figure 5B	DN1; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	DN1; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
	DN2; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	DN2; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0179	*	Mann Whitney test, one tailed
	DN3; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	DN3; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0286	*	Mann Whitney test, one tailed
	DN4; D10; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	DN4; D21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
Figure 5C	Thymic ETPs; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0143	*	Mann Whitney test, one tailed
Figure 5D	CCL19; TECs; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0008	***	T-test
	CCL19; Fibroblasts; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0015	**	T-test
	CCL21; TECs; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0023	**	T-test
	CCL21; Fibroblasts; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0396	*	T-test
	ICAM-1; Endothelial cells; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0394	*	T-test
	VCAM-1; Endothelial cells; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0011	**	T-test
	Selp; Endothelial cells; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0092	**	T-test
Figure 5E	CD45.1 ETPs; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0011	**	Mann Whitney test, one tailed
	CD45.1 donor cells; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0011	**	Mann Whitney test, one tailed
Figure 5F	IL-22; WT; UT vs d3 SL-TBI	0.0362	*	T-test
	IL-22; LT α -/-; UT vs d3 SL-TBI	0.0096	**	T-test
Figure 5G	IL-23; total thymus; WT; UT vs d3 SL-TBI	0.0117	*	T-test
	IL-23; total thymus; LT α -/-; UT vs d3 SL-TBI	0.0172	*	T-test
	IL-23; purified DCs; WT; UT vs d3 SL-TBI	0.0011	**	T-test
	IL-23; purified DCs; LT α -/-; UT vs d3 SL-TBI	0.0184	*	T-test
Figure 6B	GST vs RANKL-GST	0.0184	*	T-test
Figure 6C	WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0178	*	T-test
Figure 6D	Total TECs; WT CD45.1:WT GST vs WT CD45.1: WT RANKL	0.0003	***	T-test

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	Total TECs; WT CD45.1:LT α ^{-/-} GST vs WT CD45.1:LT α ^{-/-} RANKL	0.0002	***	T-test
	cTECs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0002	***	T-test
	cTECs; WT CD45.1:WT RANKL vs WT CD45.1:LT α ^{-/-} RANKL	0.0015	**	T-test
	cTECs; WT CD45.1:LT α ^{-/-} GST vs WT CD45.1:LT α ^{-/-} RANKL	<0.0001	****	T-test
	mTECs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	<0.0001	****	T-test
	mTECs; WT CD45.1:LT α ^{-/-} GST vs WT CD45.1:LT α ^{-/-} RANKL	0.0007	***	T-test
Figure 6E	WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0007	***	T-test
	WT CD45.1:WT RANKL vs WT CD45.1:LT α ^{-/-} RANKL	<0.0001	****	T-test
Figure 6F	SP1; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0015	**	T-test
	SP1; WT CD45.1:WT RANKL vs WT CD45.1:LT α ^{-/-} RANKL	0.0315	*	T-test
	SP2; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0315	*	T-test
	SP2; WT CD45.1:WT RANKL vs WT CD45.1:LT α ^{-/-} RANKL	0.0140	*	T-test
Figure 6G	CD45.1 total cells - WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0003	***	T-test
	CD45.1 total cells - WT CD45.1:WT RANKL vs WT CD45.1:LT α ^{-/-} RANKL	0.0014	**	T-test
	CD45.1 total cells - WT CD45.1:LT α ^{-/-} GST vs WT CD45.1:LT α ^{-/-} RANKL	0.0260	*	T-test
	Thymic ETPs - WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0004	***	T-test
	Thymic ETPs - WT CD45.1:WT RANKL vs WT CD45.1:LT α ^{-/-} RANKL	0.0367	*	T-test
	Thymic ETPs - WT CD45.1:LT α ^{-/-} GST vs WT CD45.1:LT α ^{-/-} RANKL	0.0312	*	T-test
	DN - WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0495	*	T-test
	DN - WT CD45.1:WT RANKL vs WT CD45.1:LT α ^{-/-} RANKL	0.0443	*	T-test
	DP - WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0040	**	T-test
	DP - WT CD45.1:WT RANKL vs WT CD45.1:LT α ^{-/-} RANKL	0.0009	***	T-test
	CD4+ SP - WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0005	***	T-test
	CD4+ SP - WT CD45.1:WT RANKL vs WT CD45.1:LT α ^{-/-} RANKL	0.0003	***	T-test
	CD4+ SP - WT CD45.1:LT α ^{-/-} GST vs WT CD45.1:LT α ^{-/-} RANKL	0.0346	*	T-test
	CD8+ SP - WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0185	*	T-test
	CD8+ SP - WT CD45.1:WT RANKL vs WT CD45.1:LT α ^{-/-} RANKL	0.0013	**	T-test
Figure 6H	Thymic ETPs – UT vs WT CD45.1:WT PBS	0.0346	*	T-test

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	Thymic ETPs - WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0185	*	T-test
	BM prethymic progenitors - UT vs WT CD45.1:WT PBS	0.0003	***	T-test
Figure 7A	Total TECs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
	cTECs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
	mTECs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
Figure 7B	WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
Figure 7C	CD45.1 total donor cells; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0262	*	Mann Whitney test, one tailed
	DN; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
	DP; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
	CD4+ SP; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
	CD8+ SP; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
Figure 7D	ETPs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
EV1A	GST vs RANKL	0.0143	*	Mann Whitney test, two tailed
	RANKL vs RANK-Fc	0.0143	*	Mann Whitney test, two tailed
EV1B	LT α protein expression in hematopoietic cells after RANKL <i>in vitro</i> stimulation	<0.0001	****	One-Way ANOVA
EV2A	cTECs; WT vs LT α ^{-/-}	0.0175	*	Mann Whitney test, two tailed
	mTECs; WT vs LT α ^{-/-}	0.0012	**	Mann Whitney test, two tailed
EV2B	CD80 ^{lo} Aire ⁻ mTECs; WT vs LT α ^{-/-}	0.0221	*	Mann Whitney test, two tailed
	CD80 ^{hi} Aire ⁻ mTECs; WT vs LT α ^{-/-}	0.0012	**	Mann Whitney test, two tailed
	CD80 ^{hi} Aire ⁺ mTECs; WT vs LT α ^{-/-}	0.0041	**	Mann Whitney test, two tailed
EV2C	WT vs LT α ^{-/-}	0.0004	***	T-test
EV3A	CD4+; d21; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0286	*	Mann Whitney test, one tailed
	CD4+; d65; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0159	*	Mann Whitney test, one tailed
	CD4+; d100; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0317	*	Mann Whitney test, one tailed
	CD8+; d21; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0143	*	Mann Whitney test, one tailed
	CD8+; d65; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0159	*	Mann Whitney test, one tailed
	CD8+; d100; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0159	*	Mann Whitney test, one tailed
EV3B	Foxp3+ Tregs; d21; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0143	*	Mann Whitney test, one tailed
	Foxp3+ Tregs; d65; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0079	**	Mann Whitney test, one tailed
	Foxp3+ Tregs; d100; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0079	**	Mann Whitney test, one tailed
EV3C	CD4+; d21; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0286	*	Mann Whitney test, one tailed
	CD4+; d65; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0079	**	Mann Whitney test, one tailed
	CD4+; d100; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0079	**	Mann Whitney test, one tailed
	CD8+; d21; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0286	*	Mann Whitney test, one tailed
	CD8+; d65; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0079	**	Mann Whitney test, one tail
	CD8+; d100; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0286	*	Mann Whitney test, one tailed

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EV3D	Foxp3+ Tregs; d21; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	Foxp3+ Tregs; d65; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0079	**	Mann Whitney test, one tailed
	Foxp3+ Tregs; d100; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0079	**	Mann Whitney test, one tailed
EV3E	CD4+; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
	CD8+; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0500	*	Mann Whitney test, one tailed
EV3F	CD4+; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0028	**	Mann Whitney test, one tailed
	CD8+; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0079	**	Mann Whitney test, one tailed
EV4	CD45.1 total donor cells; d21; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0006	***	Mann Whitney test, one tailed
	CD45.1 total donor cells; d21; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0006	***	Mann Whitney test, one tailed
	CD45.1 total donor cells; d65; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	CD45.1 total donor cells; d65; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0500	*	Mann Whitney test, one tailed
	CD8+ T cells; d21; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0002	***	Mann Whitney test, one tailed
	CD8+ T cells; d21; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0119	*	Mann Whitney test, one tailed
	CD8+ T cells; d65; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	CD8+ T cells; d65; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0500	*	Mann Whitney test, one tailed
	CD4+ T cells; d21; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0095	**	Mann Whitney test, one tailed
	CD4+ T cells; d21; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0179	*	Mann Whitney test, one tailed
	CD4+ T cells; d65; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	CD4+ T cells; d65; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0500	*	Mann Whitney test, one tailed
	Foxp3+ Tregs; d21; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0213	*	Mann Whitney test, one tailed
	Foxp3+ Tregs; d21; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0213	*	Mann Whitney test, one tailed
	Foxp3+ Tregs; d65; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	Foxp3+ Tregs; d65; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0500	*	Mann Whitney test, one tailed
EV5B	UT vs d3 SL-TBI	0.0500	*	Mann Whitney test, one tailed
EV5C	Total TECs; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0022	**	Mann Whitney test, one tailed
	cTECs; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0152	*	Mann Whitney test, one tailed
	mTECs; WT CD45.1:WT vs WT CD45.1: LT α -/-	0.0022	**	Mann Whitney test, one tailed

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EV5D	Total TECs; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0011	**	Mann Whitney test, one tailed
	cTECs; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0500	*	Mann Whitney test, one tailed
	mTECs; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0011	**	Mann Whitney test, one tailed
EV5E	CD80loAire ⁻ mTECs; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0048	**	Mann Whitney test, one tailed
	CD80hiAire ⁻ mTECs; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0152	*	Mann Whitney test, one tailed
	CD80hiAire ⁺ mTECs; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0130	*	Mann Whitney test, one tailed
EV5F	CD45.1 total donor cells; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0043	**	Mann Whitney test, one tailed
	DN; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0500	*	Mann Whitney test, one tailed
	DP; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0500	*	Mann Whitney test, one tailed
	CD4 ⁺ SP; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0278	*	Mann Whitney test, one tailed
	CD8 ⁺ SP; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0011	**	Mann Whitney test, one tailed
EV5G	ETPs; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0500	*	Mann Whitney test, one tailed
EV5H	CD4 ⁺ T cells; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0152	*	Mann Whitney test, one tailed
EV5I	Foxp3 ⁺ Tregs; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0043	**	Mann Whitney test, one tailed
EV5J	CD4 ⁺ T cells; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0119	*	Mann Whitney test, one tailed
	CD8 ⁺ T cells; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0130	*	Mann Whitney test, one tailed
EV5K	Foxp3 ⁺ Tregs; WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0119	*	Mann Whitney test, one tailed
Appendix Figure S3	WT CD45.1:WT vs WT CD45.1: LT α ^{-/-}	0.0227	*	T-test
Appendix Figure S4B	Total TECs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	Total TECs; WT CD45.1:WT RANKL vs WT CD45.1: LT α ^{-/-} RANKL	0.0500	*	Mann Whitney test, one tailed
	cTECs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	cTECs; WT CD45.1:WT RANKL vs WT CD45.1: LT α ^{-/-} RANKL	0.0500	*	Mann Whitney test, one tailed
	cTECs; WT CD45.1: LT α ^{-/-} GST vs WT CD45.1: LT α ^{-/-} RANKL	0.0500	*	Mann Whitney test, one tailed
	mTECs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	mTECs; WT CD45.1:WT RANKL vs WT CD45.1: LT α ^{-/-} RANKL	0.0500	*	Mann Whitney test, one tailed
Appendix Figure S4C	CD45.1 total donor cells; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	CD45.1 total donor cells; WT CD45.1:WT RANKL vs WT CD45.1: LT α ^{-/-} RANKL	0.0500	*	Mann Whitney test, one tailed
	Thymic ETPs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	Thymic ETPs; WT CD45.1:WT RANKL vs WT CD45.1: LT α ^{-/-} RANKL	0.0500	*	Mann Whitney test, one tailed
	DN; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	DN; WT CD45.1:WT RANKL vs WT CD45.1: LT α ^{-/-} RANKL	0.0463	*	Mann Whitney test, one tailed
	DP; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed

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	DP; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0500	*	Mann Whitney test, one tailed
	CD4+ SP; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, one tailed
	CD4+ SP; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0500	*	Mann Whitney test, one tailed
	CD8+ SP; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0500	*	Mann Whitney test, one tailed
Appendix Figure S5	Frequency; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, two tailed
	Frequency; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0500	*	Mann Whitney test, two tailed
	Numbers; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0500	*	Mann Whitney test, two tailed
	Numbers; WT CD45.1:WT RANKL vs WT CD45.1: LT α -/- RANKL	0.0500	*	Mann Whitney test, two tailed
Appendix Figure S6A	CD45.1 total donor cells ; PBS vs RANKL	0.0011	**	Mann Whitney test, one tailed
	CD45.1 total donor cells ; PBS vs IL-22	0.0011	**	Mann Whitney test, one tailed
	CD45.1 total donor cells ; IL-22 vs IL-22 + RANKL	0.0043	**	Mann Whitney test, two tailed
	CD45.1 total donor cells ; RANKL vs IL-22 + RANKL	0.0043	**	Mann Whitney test, two tailed
	DN ; PBS vs IL-22	0.0500	*	Mann Whitney test, one tailed
	DN ; PBS vs RANKL	0.0500	*	Mann Whitney test, one tailed
	DP ; PBS vs IL-22	0.0011	**	Mann Whitney test, one tailed
	DP ; PBS vs RANKL	0.0011	**	Mann Whitney test, one tailed
	DP ; IL-22 vs IL-22 + RANKL	0.0043	**	Mann Whitney test, two tailed
	DP ; RANKL vs IL-22 + RANKL	0.0043	**	Mann Whitney test, two tailed
	CD4+SP ; PBS vs IL-22	0.0011	**	Mann Whitney test, one tailed
	CD4+SP ; PBS vs RANKL	0.0011	**	Mann Whitney test, one tailed
	CD4+SP ; IL-22 vs IL-22 + RANKL	0.0043	**	Mann Whitney test, two tailed
	CD4+SP ; RANKL vs IL-22 + RANKL	0.0043	**	Mann Whitney test, two tailed
	CD8+ SP ; PBS vs IL-22	0.0011	**	Mann Whitney test, one tailed
	CD8+ SP ; PBS vs RANKL	0.0011	**	Mann Whitney test, one tailed
	CD8+ SP ; IL-22 vs IL-22 + RANKL	0.0011	**	Mann Whitney test, two tailed
	CD8+ SP ; RANKL vs IL-22 + RANKL	0.0043	**	Mann Whitney test, two tailed
Appendix Figure S6B	ETPs ; PBS vs IL-22	0.0011	**	Mann Whitney test, one tailed
	ETPs ; PBS vs RANKL	0.0011	**	Mann Whitney test, one tailed
	ETPs ; IL-22 vs IL-22 + RANKL	0.0500	*	Mann Whitney test, two tailed
	ETPs ; RANKL vs IL-22 + RANKL	0.0500	*	Mann Whitney test, two tailed
Appendix Figure S6C	CD45.1 total donor cells ; PBS vs IL-22	0.0011	**	Mann Whitney test, one tailed
	CD45.1 total donor cells ; PBS vs RANKL	0.0011	**	Mann Whitney test, one tailed
	CD45.1 total donor cells ; IL-22 vs RANKL	0.0022	**	Mann Whitney test, two tailed
	CD45.1 total donor cells ; RANKL vs IL-22 + RANKL	0.0022	**	Mann Whitney test, two tailed
	CD45.1 total donor cells ; PBS vs IL-22 + RANKL	0.0022	**	Mann Whitney test, two tailed
	CD4+ T cells ; PBS vs IL-22	0.0325	*	Mann Whitney test, one tailed
	CD4+ T cells ; PBS vs RANKL	0.0160	*	Mann Whitney test, one tailed
	CD4+ T cells ; PBS vs IL-22 + RANKL	0.0303	*	Mann Whitney test, one tailed
	CD8+ T cells ; PBS vs IL-22	0.0500	*	Mann Whitney test, one tailed

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	CD8+ T cells ; PBS vs RANKL	0.0500	*	Mann Whitney test, one tailed
	Foxp3+ Tregs ; PBS vs IL-22	0.0130	*	Mann Whitney test, one tailed
	Foxp3+ Tregs ; PBS vs RANKL	0.0011	**	Mann Whitney test, one tailed
	Foxp3+ Tregs ; PBS vs IL-22 + RANKL	0.0152	*	Mann Whitney test, two tailed
Appendix Figure S6D	Total TECs; PBS vs RANKL	0.0022	**	Mann Whitney test, two tailed
	Total TECs; GST vs RANKL	0.0500	*	Mann Whitney test, two tailed
	Total TECs; RANKL vs IL-22 + RANKL	0.0022	**	Mann Whitney test, two tailed
	cTECs; PBS vs RANKL	0.0022	**	Mann Whitney test, one tailed
	cTECs; IL-22 vs RANKL	0.0411	*	Mann Whitney test, two tailed
	mTECs; PBS vs RANKL	0.0022	**	Mann Whitney test, one tailed
	mTECs; IL-22 vs RANKL	0.0500	*	Mann Whitney test, two tailed
	mTECs; RANKL vs IL-22 + RANKL	0.0022	**	Mann Whitney test, two tailed
Appendix Figure S6E	CD80loAire- ; PBS vs RANKL	0.0411	*	Mann Whitney test, one tailed
	CD80loAire- ; IL-22 vs RANKL	0.0500	*	Mann Whitney test, two tailed
	CD80loAire- ; RANKL vs IL-22 + RANKL	0.0087	**	Mann Whitney test, two tailed
	CD80hiAire- ; PBS vs IL-22	0.0130	*	Mann Whitney test, one tailed
	CD80hiAire- ; PBS vs RANKL	0.0011	**	Mann Whitney test, one tailed
	CD80hiAire- ; RANKL vs IL-22 + RANKL	0.0043	**	Mann Whitney test, two tailed
	CD80hiAire+ ; PBS vs IL-22	0.0130	*	Mann Whitney test, one tailed
	CD80hiAire+ ; PBS vs RANKL	0.0011	**	Mann Whitney test, one tailed
	CD80hiAire+ ; RANKL vs IL-22 + RANKL	0.0043	**	Mann Whitney test, two tailed
Appendix Figure S6F	cTEChi ; PBS vs RANKL	0.0022	**	Mann Whitney test, one tailed
	cTEChi ; IL-22 vs RANKL	0.0022	**	Mann Whitney test, two tailed
	cTEChi ; RANKL vs IL-22 + RANKL	0.0043	**	Mann Whitney test, two tailed
	mTEChi ; PBS vs IL-22	0.0011	**	Mann Whitney test, one tailed
	mTEChi ; PBS vs RANKL	0.0011	**	Mann Whitney test, one tailed
	mTEChi ; RANKL vs IL-22 + RANKL	0.0022	**	Mann Whitney test, two tailed
	mTEChi ; IL-22 vs IL-22 + RANKL	0.0087	**	Mann Whitney test, two tailed
	TEClo ; PBS vs RANKL	0.0022	**	Mann Whitney test, one tailed
	TEClo ; IL-22 vs RANKL	0.0043	**	Mann Whitney test, two tailed
	TEClo ; IL-22 vs IL-22 + RANKL	0.0022	**	Mann Whitney test, two tailed
	mTEClo ; PBS vs RANKL	0.0043	**	Mann Whitney test, one tailed
	mTEClo ; IL-22 vs RANKL	0.0043	**	Mann Whitney test, two tailed
	mTEClo ; IL-22 vs IL-22 + RANKL	0.0022	**	Mann Whitney test, two tailed
Appendix Figure S6G	PBS vs RANKL	0.0043	**	Mann Whitney test, one tailed
	IL-22 vs RANKL	0.0087	**	Mann Whitney test, two tailed
	RANKL vs IL-22 + RANKL	0.0022	**	Mann Whitney test, two tailed
Appendix Figure S7A	CD4+ T cells; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
	CD8+ T cells; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
Appendix Figure S7B	Foxp3+ Tregs; WT CD45.1:WT GST vs WT CD45.1:WT RANKL	0.0476	*	Mann Whitney test, one tailed
Appendix Figure S9A	Area; GST vs RANKL-GST	<0.0001	****	T-test

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Appendix Figure S9B	Frequency; GST vs RANKL-GST	0.0043	**	Mann Whitney test, two tailed
	Numbers; GST vs RANKL-GST	0.0043	**	Mann Whitney test, two tailed