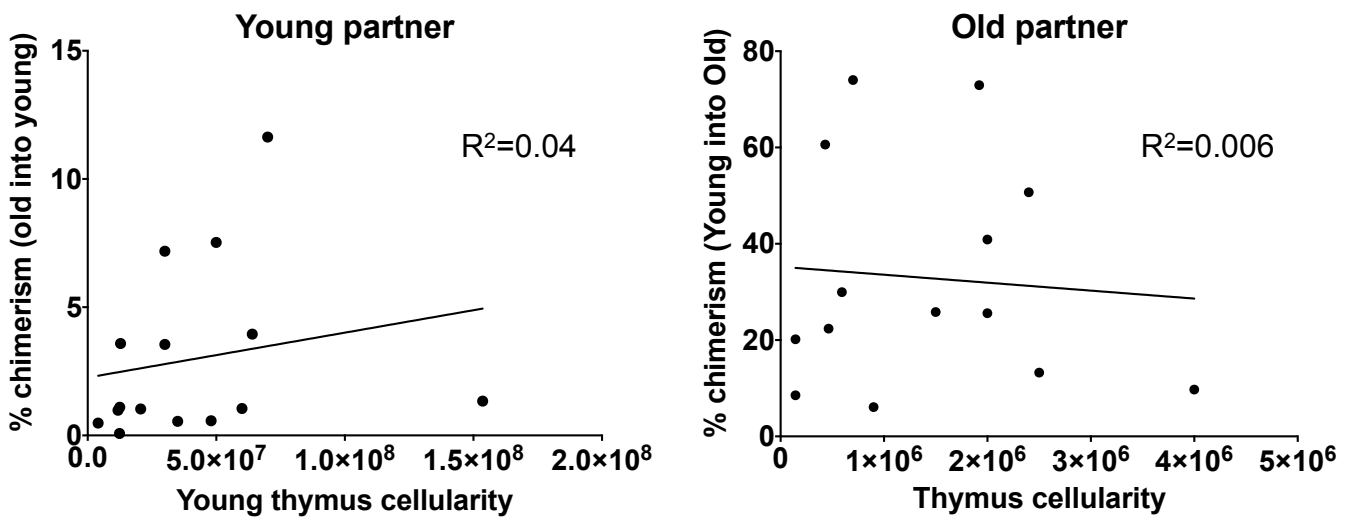
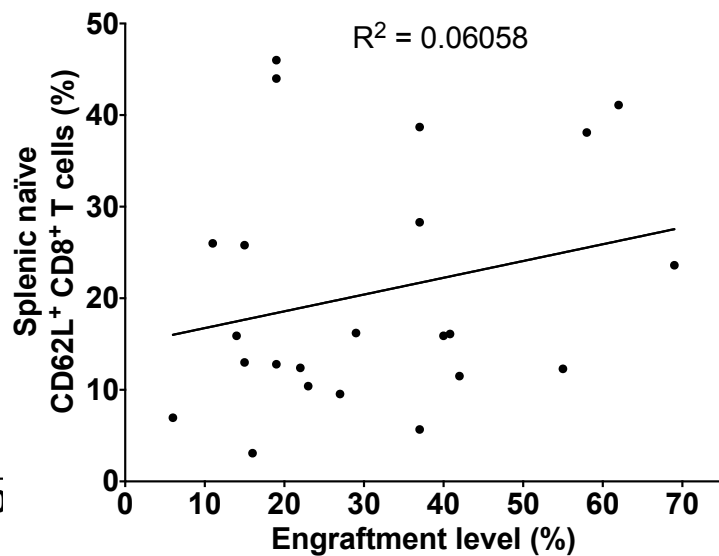
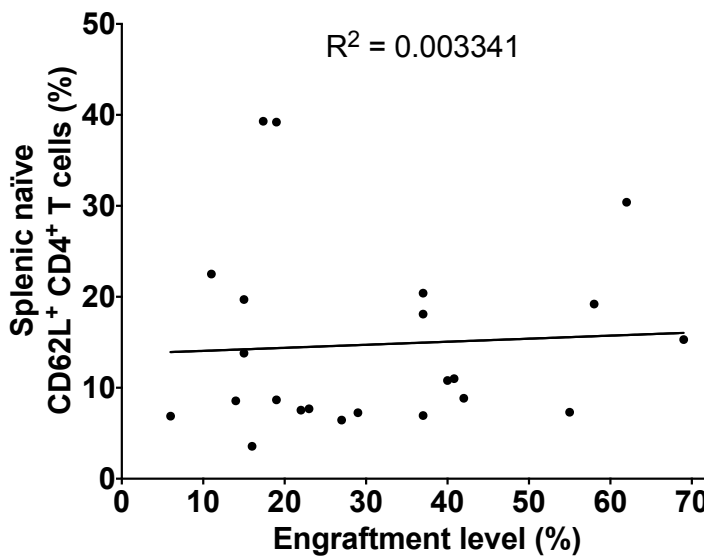


Supplemental Table 1. List of antibodies used in the study.

Antigen	Clone	Fluorochrome	Source	Used to analyze data presented in (Note that not all antibodies are shown in figures)
Mouse EpCAM	G8.8	APC/Cy7	Biologend	Figures 5, 8
Mouse CD45	30-F11	PE/Cy5	Biologend	Figures 5, 8
Mouse CD45.1	A20	Pacific blue	Biologend	Figure 1
Mouse CD45.2	104	Biotinylated	Pharmingen	Figure 1
<i>Ulea Europaeus</i> Agglutinin I lectin		Alexa 680, Biotinylated	Vector Labs, In-house	Figures 5, 8
Mouse I-A/I-E	M5/114.15.2	Pacific blue, PE/Cy7	Biologend	Figures 5, 8
Mouse Ly-51	6C3	Biotinylated	BD Biosciences	Figures 5, 8
Mouse CD80	16-10A1	APC	Biologend	Figures 5, 8
Mouse CD3	145-2C11	Alexa 488, APC	Biologend	Figures 1, 2
Mouse TCR β	H57-597	PE	Biologend	Figures 2, 4
Mouse CD4	GK1.5	PE/Cy7	Biologend	Figures 1, 2, 4
Mouse CD8	53-6.7	PE/Cy5.5, Pacific blue	Biologend	Figures 1, 2, 4
Mouse B220	RA3-6B2	PE/Cy5	Biologend	Figure 1
Mouse CD19	6D5	PE/Cy5.5	Invitrogen	Figures 1, 2, 4
Mouse Gr1	RB6-8C5	Pacific orange	In-house	Figures 1, 2, 4
Mouse CD11b	M1/70	PE/Cy5	Biologend	Figures 1, 2, 4
Mouse CD11c	HL3	Biotinylated, APC/Cy7	Biologend	Figure 1
Mouse CD62L	MEL-14	FITC, APC	BD Biosciences In-house	Figures 2, 4
Mouse CD44	IM7	Alexa 680	In-house	Figures 2, 4
Mouse c-Kit	2B8	APC/Cy7	Biologend	Figure 1
Mouse CD25	PC61	Alexa 488, APC	Biologend	Figure 1
Mouse Psmb11	Polyclonal	Not applicable	MBL International Corporation	Figure 5
Secondary antibody	Not applicable	Donkey anti-rabbit DyLight 594	Jackson Immunoresearch	Figure 5
Secondary antibody	Not applicable	Streptavidin- Qdot605	Invitrogen	Figure 1
Secondary antibody	Not applicable	Streptavidin- Alexa fluor 594	Invitrogen	Figure 5
Secondary antibody	Not applicable	Streptavidin- BV605 or BV 421	BD Biosciences	Figures 5, 8



Supplemental Figure 1. Contribution of parabiotic partner thymocytes does not correlate with thymus cellularity in heterochronic parabionts. The contribution of partner cells to the thymus of each heterochronic parabiont (data from Figure 1B) was graphed against the total cellularity of that thymus (data from Figure 1C).



Supplemental Figure 2. Donor cell engraftment level does not correlate with percentage of naïve splenic T cells. Percentages of splenic naïve T cells shown in Figure 5C were compared to the engraftment levels of donor GFP⁺ thymic cells within recipient thymuses (examples in Figure 4B). Each recipient thymus was manually scored to determine the engraftment level.