

Supplemental figures and tables

Supplemental table 1: Detailed clinical data for patients with drug-free long-term graft function (TOL), kidney recipients with stable graft function under standard immunosuppression (STA) and healthy volunteers (HV).

Supplemental Figure 1: B cells GzmB expression before and after activation. (A) Dot plot of secretion of GzmB by unstimulated B cells at day 0 and stimulated B cells at day 3 of coculture with CD4⁺CD25⁻ T cells. (B) Percentage of GzmB⁺ B cells at day 0 and day 3 in HV (n=6), TOL (n=6) and STA (n=6) (**p<0.01; ***p<0.005). (C) Dot plot of secretion of GzmB by stimulated B cells at day 3 of coculture with CD4⁺CD25⁻ T cells in HV, TOL and STA.

Supplemental Figure 2: Comparative expression of B-cell regulatory molecules (A, B) and tolerance-related markers (C, D) across B-cell (A, C) and PBMC samples (B, D). For each subset (A, B, C, D), gene expression data are represented by a heat map in which each row represents a gene, and each column represents a sample from the Healthy Volunteer (HV), Tolerant (TOL) or Stable patient (STA) group. Each cell in the matrix corresponds to an expression level, with red for over-expression, green for under-expression, and black for gene expression close to the median (see green/red color scale). For each gene, the absolute expression (see purple color scale, Quartile) and the significance of the variations (1: TOL vs. STA; 2: TOL vs. HV; 3: STA vs. HV) between groups (see blue color scale, P-value) are given. Diamond (♦) shows preferential expression in B-cell subsets.

Supplemental figure 3: Absolute number of blood B cells. Number of B cells per µL of blood in HV (n=6), TOL (n=9) and STA (n=6) (* p<0.05).

Supplemental table 1

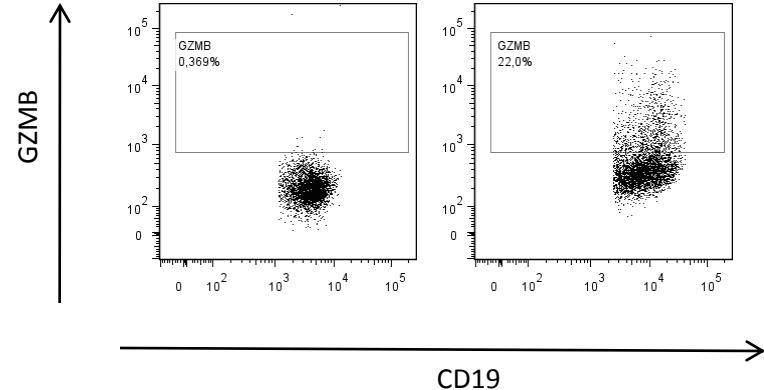
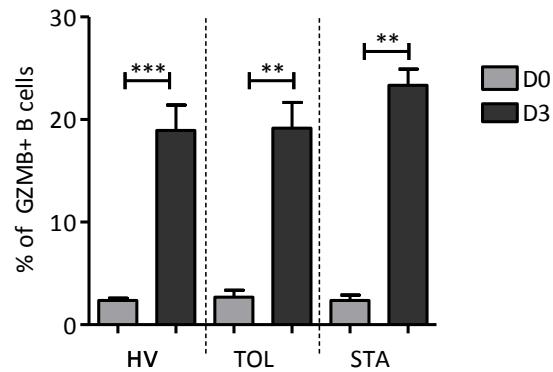
		Age (years)	Gender	Previous episode of acute rejection	Lymphoma status: cancer	Time between graft and analysis (months)	Episode of acute infection (CMV)	Creatinemia (μmol/L)	Proteinuria g/24h	Donor (living vs deceased)	Number of HLA mismatches	Medical treatment	Medical treatment before immunosuppression withdrawal	Time between immunosuppression withdrawal and analysis (years)	Reason of immunosuppression withdrawal	Ab anti-HA	Donor specific Abs
TOL		68,9	M	0,0	0,0	1,0	325,2	112,0	0,04	NLD	4,0	0,0	AZA+CNI+CS	13,0	uncompliance	-	-
		58,2	F	2,0	1,0	1,0	244,0	87,0	ND	NLD	3,0	0,0	CC+CNI+CS	19,0	Csa toxicity	+ (CL II)	+ (CL II)
		47,7	M	0,0	0,0	0,0	180,6	103,0	0,04	LD	0,0	0,0	CC+CNI+CS	13,0	uncompliance	-	-
		61,2	F	0,0	0,0	1,0	358,4	71,0	0,09	LD	0,0	0,0	AZA+CNI+CS	12,0	uncompliance	-	-
		59,2	M	0,0	0,0	0,0	197,3	280,0	0,10	LD	0,0	0,0	CNI+CS	13,0	uncompliance	-	-
		49,8	F	0,0	0,0	0,0	136,6	80,0	0,19	NLD	1,0	0,0	MMF+CNI+CS	9,0	uncompliance	+ (CL I - CL II)	-
		85,3	M	0,0	0,0	1,0	246,4	144,0	0,36	NLD	3,0	0,0	CNI+CS	8,0	uncompliance	-	-
		56,8	F	0,0	1,0	1,0	261,9	66,0	0,10	NLD	4,0	0,0	CNI+AZA	4,0	PTLD	+ (CL II)	-
		50,8	M	1,0	0,0	1,0	385,3	79,0	0,08	NLD	4,0	0,0	AZA+CS	18,0	uncompliance	-	-
		44,8	M	0,0	0,0	0,0	168,5	205,0	0,59	NLD	0,0	0,0	CC+CNI	5,0	meningo-encephalitis	-	-
		61,0	F	0,0	0,0	1,0	147,8	93,0	0,00	NLD	4,0	0,0	CC+CNI	7,0	uncompliance	-	-
STA	Mean	58,0	6F/12	0,0	0,0	1,0	220,6	90,0	0,10	4LD/12	3,0			10,5			ND
	SD	15,8		0,3	0,4	0,5	94,9	64,7	0,20		3,9			5,5			
	min	31,4		0,0	0,0	0,0	71,4	66,0	0,00		0,0			1,0			
	max	85,3		2,0	1,0	1,0	385,3	280,0	0,59		4,0			19,0			
		51,9	F	0,0	0,0	1,0	129,0	81,0	0,10	NLD	5,0	0,0	CNI+CS			-	-
		53,7	M	0,0	0,0	0,0	97,0	112,0	0,16	LD	4,0	0,0	CS+CC			-	-
		44,1	M	0,0	0,0	0,0	63,4	164,0	0,14	NLD	4,0	0,0	CNI+CC			-	-
STA		60,6	M	0,0	0,0	0,0	98,0	102,0	0,14	NLD	5,0	0,0	CNI+CC			-	-
		47,0	M	0,0	0,0	1,0	140,7	93,0	0,16	NLD	1,0	0,0	CS+CC			+ (CI II)	-
		54,0	M	0,0	0,0	1,0	192,5	132,0	0,05	NLD	4,0	0,0	CNI+CS			+ (CI II)	-
		71,3	M	0,0	0,0	1,0	133,7	175,0	0,14	NLD	5,0	0,0	CNI+CC			-	-
		40,4	M	0,0	0,0	0,0	95,5	92,0	0,24	NLD	2,0	0,0	CNI+CC			-	-
		52,8	M	1	0,0	0,0	93,1	146,0	0,24	NLD	5,0	0,0	CNI+CC+CS			+ (CI II)	-
		44,1	M	0,0	0,0	1,0	142,6	131,0	0,11	NLD	1,0	0,0	CNI			-	-
		61,3	M	0,0	0,0	0,0	89,0	133,0	0,20	NLD	4,0	0,0	CNI+CC			-	-
		66,3	F	1	0,0	1,0	66,4	74,0	0,04	NLD	5,0	0,0	CNI+CS			-	-
		74,9	F	0,0	1	1,0	143,8	88,0	0,18	NLD	4,0	0,0	CNI+CC			-	-
		59,8	M	0,0	0,0	0,0	115,9	149,0	0,00	NLD	3,0	0,0	CNI+CC			-	-
		53,5	F	0,0	0,0	0,0	109,7	100,0	0,04	NLD	4,0	0,0	CNI+CC			-	-
STA		71,5	M	0,0	0,0	0,0	124,8	117,0	0,04	NLD	5,0	0,0	CNI+CC			+ (CI I)	-
		55,4	F	0,0	0,0	1,0	182,9	115,0	0,08	NLD	2,0	0,0	CNI+CS			+ (CI II)	-
	Mean	57,7	5F/17	0,0	0,0	0,5	120,4	124,0	0,10	1LD/17	4,0						
	SD	10,8		0,4	0,3	0,5	37,6	29,1	0,10		1,4						
	min	40,4		0,0	0,0	0,0	66,4	74,0	0,00		1,0						
	max	74,9		1,0	1,0	1,0	192,5	175,0	0,24		5,0						

Supplemental figure 1

A

D0

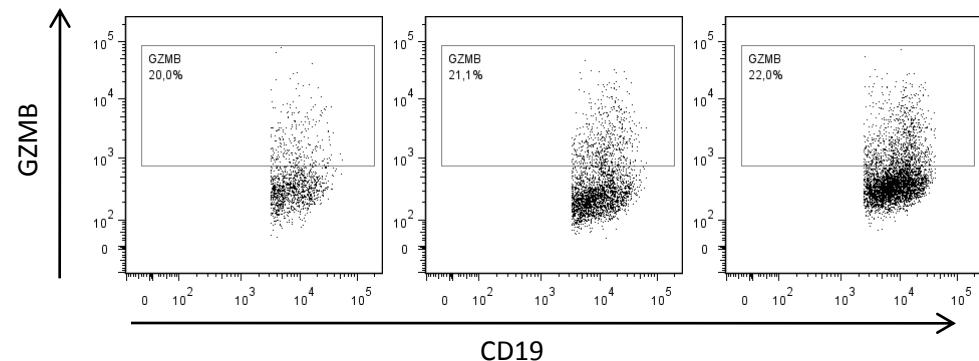
D3

**B****C**

HV

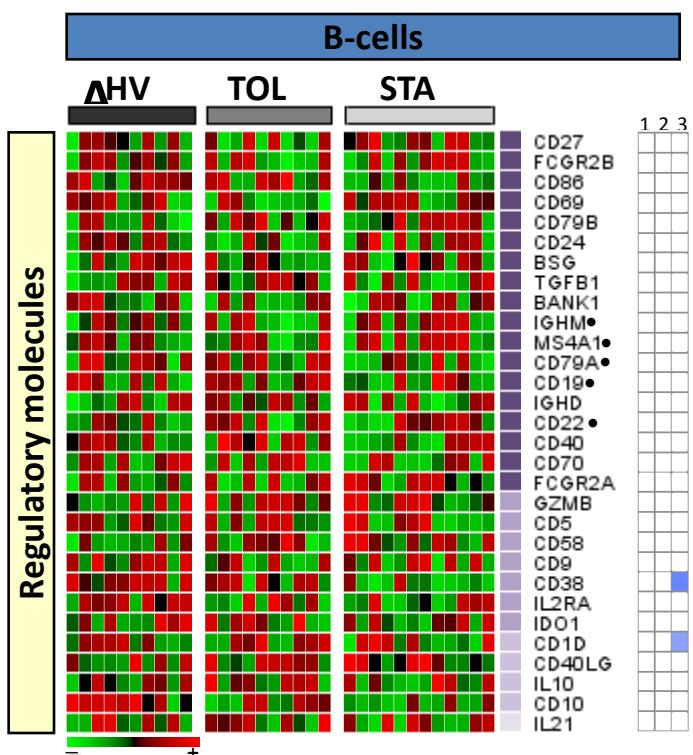
TOL

STA

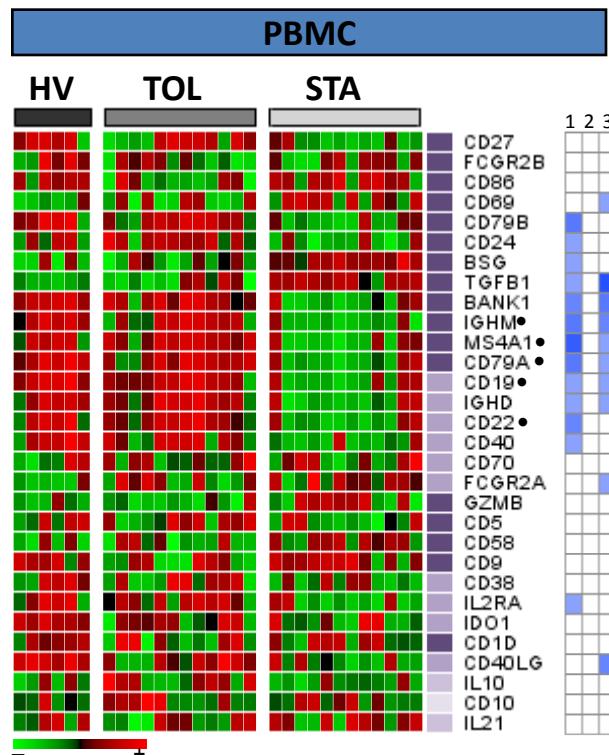


Supplemental figure 2

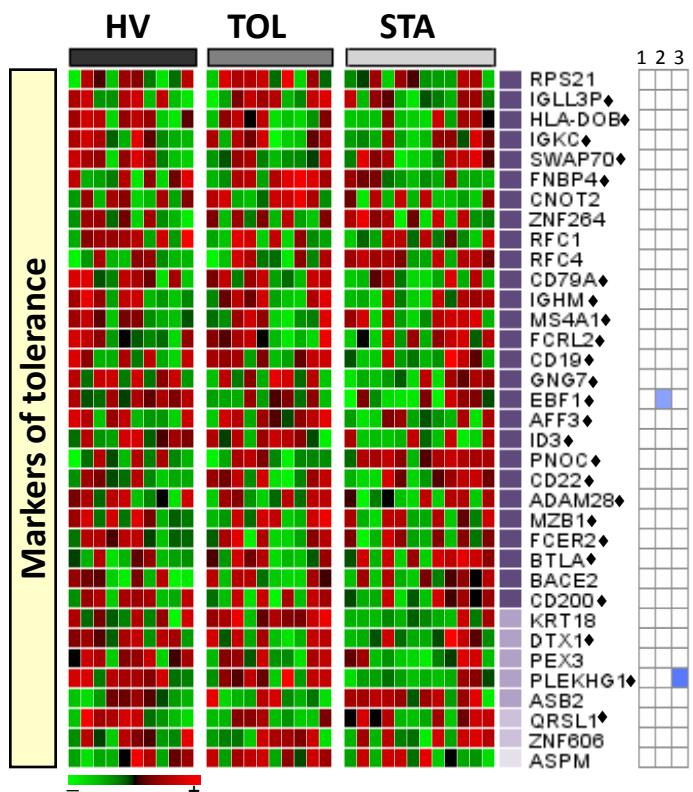
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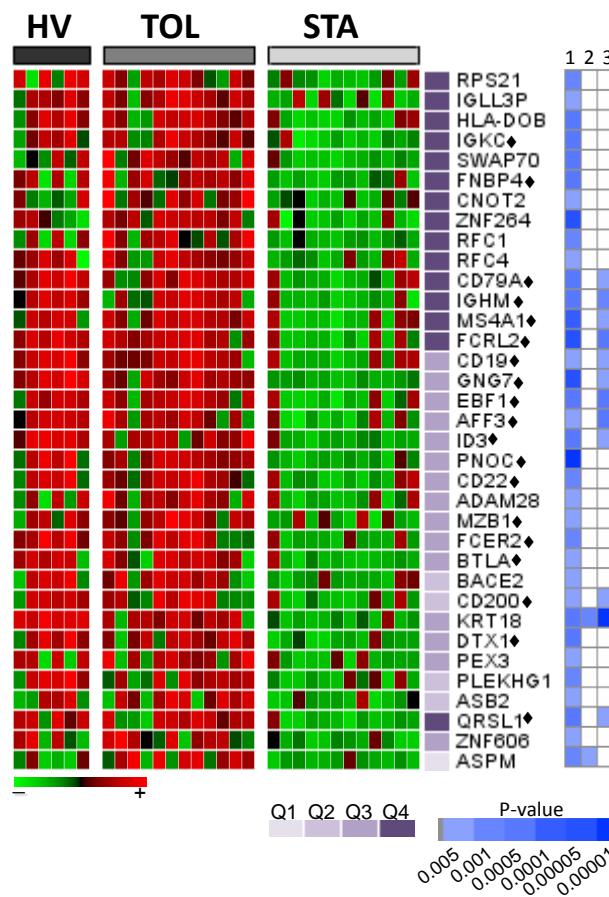
B



C



D



Supplemental figure 3

