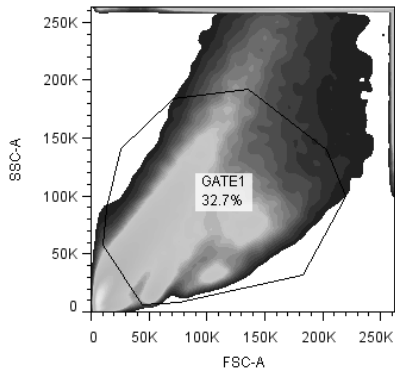
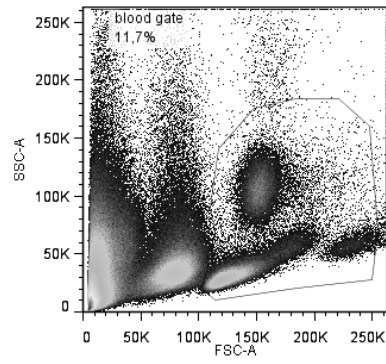


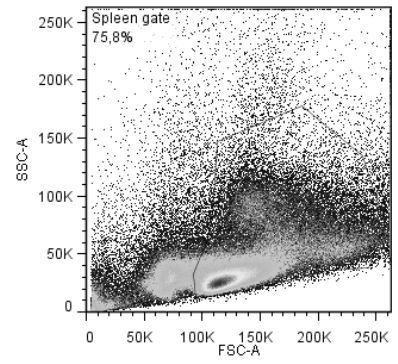
kidney gate



blood gate



spleen gate



Supplementary figure 1: FACS-gating of cells in kidney, blood and spleen.

Supplementary tab. 1 Subtypes of EPC in blood, spleens and kidneys following selective endothelial injury

EC	cell types	sham (n=5)	d1 (n=5)	d3 (n=5)	d5 (n=5)	d7 (n=5)
Blood	ECFC	0	0	0	0	0
	EC-CFU	0.001 ±0.002	0.003 ±0.004	0.001 ±0.002	0.003 ±0.002	0.001 ±0.004
Spleen	ECFC	0	0	<0.001	0	<0.001
	EC-CFU	0.005 ±0.002	0.006 ±0.002	0.004 ±0.002	0.005 ±0.012	0.004 ±0.001
Kidney	EPC	0.36 ±0.18	0.66 ±0.35	1.84 ±0.42***	1.31 ±0.37**	0.73 ±0.35
	ECFC	0.32 ±0.14	0.49 ±0.32	1.60 ±0.38***	1.18 ±0.37**	0.61 ±0.39
	EC-CFU	0.01 ±0.010	0.08 ±0.050	0.04 ±0.03	0.04 ±0.04	0.06 ±0.04

Supplementary tab. 2. Subtypes of EPC in blood, spleens and kidneys following I/R.

IR	cell types	sham (n=6)	4h (n=4)	d1 (n=6)	d3 (n=6)
Blood	ECFC	0	0	0	0
	EC-CFU	0.002 ±0.002	0.001 ±0.003	0.003 ±0.001	0.004 ±0.002
Spleen	ECFC	0	0	0	<0.001
	EC-CFU	0.003 ±0.002	0.003 ±0.001	0.004 ±0.002	0.004 ±0.002
Kidney	EPC	0.48 ±0.14	0.54 ±0.25	2.84 ±0.23***	1.96 ±0.41***
	ECFC	0.45 ±0.14	0.48 ±0.23	2.81 ±0.43***	1.49 ±0.72***
	EC-CFU	0.007 ±0.002	0.010 ±0.003	0.02 ±0.003	0.03 ±0.13

Supplementary tab. 3 BMTx followed by selective endothelial injury:
 Percentage (of gated cells) of different cell types in blood, spleen and kidney.

tdTomato positivity

> 75%

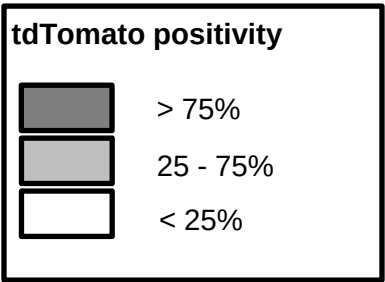
25 - 75%

< 25%

EC BMTx	cell types	sham (n=5)	d1 (n=5)	d3 (n=5)	d5 (n=5)	d7 (n=5)
Spleen	ECFC	0	0	<0.001	0	0
	EC-CFU	0.003 ±0.003	0.003 ±0.002	0.005 ±0.005	0.008 ±0.012	0.002 ±0.001
Blood	ECFC	0	<0.001	0	0	0
	EC-CFU	0.002 ±0.002	0.002 ±0.002	0.002 ±0.002	0.001 ±0.001	0.001 ±0.003
Kidney	ECFC	0.30 ±0.18	0.67 ±0.22	2.10 ±0.66***	1.30 ±0.28**	0.72 ±0.29
	EC-CFU	0.02 ±0.01	0.02 ±0.02	0.03 ±0.02	0.02 ±0.012	0.02 ±0.03
	HSC	0.16 ±0.09	0.59 ±0.14***	0.38 ±0.11*	0.34 ±0.05	0.21 ±0.12
	macrophages	0.12 ±0.03	0.11 ±0.04	0.50 ±0.28**	0.42 ±0.27*	0.18 ±0.05
	neutrophils	0.13 ±0.05	1.69 ±0.98*	1.16 ±1.35	0.70 ±0.63	0.14 ±0.07
	CD11c+ CD11b+ DC	1.47 ±0.17	1.74 ±0.87	4.42 ±1.45**	2.72 ±1.95	2.20 ±0.91
	CD4 t-cells	0.15 ±0.06	0.31 ±0.10	1.15 ±0.123***	0.97 ±0.357***	0.60 ±0.43*
	CD8 t-cells	0.25 ±0.17	0.28 ±0.14	1.67 ±0.47***	1.34 ±0.36***	0.65 ±0.61
	B-cells	0.28 ±0.12	0.22 ±0.05	0.46 ±0.20	0.41 ±0.20	0.46 ±0.18

Supplementary table 4: BMTx and I/R: Percentage (of gated cells) of different cell types in blood, spleen and kidney.

IR BMTx	cell types	sham (n=3)	d3 (n=4)
Spleen	ECFC	0	0
	EC-CFU	0.006 ±0.006	0.004 ±0.002
Blood	ECFC	0	0.001 ±0.002
	EC-CFU	0.001 ±0.001	0.002 ±0.002
Kidney	ECFC	0.45 ±0.24	2.85 ±0.53***
	EC-CFU	0.08 ±0.09	0.09 ±0.06
	HSC	0.24 ±0.07	0.63 ±0.08**
	macrophages	0.10 ±0.02	1.72 ±0.18***
	neutrophils	0.14 ±0.01	1.55 ±0.11***
	CD11c+ CD11b+ DC	1.56 ±0.38	8.58 ±0.96***
	CD4 t-cells	0.19 ±0.04	0.76 ±0.23***
	CD8 t-cells	0.26 ±0.05	1.23 ±0.29***
	B-cells	0.21 ±0.08	0.38 ±0.18



Supplementary tab. 5 BMTx control: Percentage (of gated cells) of different cell types in blood, spleen and kidney.

tdTomato positivity

> 75%

25 - 75%

< 25%

EC-BMTx contr.	cells	bl6/bl6		bl6/tdT	
		sham (n=3)	d3 (n=3)	sham (n=3)	d3 (n=3)
Spleen	ECFC	0	0	0	<0.001
	EC-CFU	0.002 ±0.002	0.003 ±0.001	0.003 ±0.003	0.003 ±0.002
Blood	ECFC	0	0	0	0
	EC-CFU	0.002 ±0.002	0.003	0.003 ±0.003	0.002 ±0.002
Kidney	ECFC	0.43 ±0.073	1.36 ±0.504*	0.58 ±0.227	1.43 ±0.343*
	EC-CFU	0.006 ±0.007	0.016 ±0.007	0.013 ±0.023	0.028 ±0.028
	HSC	0.20 ±0.165	0.46 ±0.062	0.29 ±0.096	0.28 ±0.002
	macrophages	0.08 ±0.033	0.74 ±0.046**	0.13 ±0.099	0.57 ±0.251*
	neutrophils	0.18 ±0.026	0.37 ±0.112	0.16 ±0.081	0.44 ±0.265
	CD11c+ CD11b+ DC	1.26 ±0.199	4.78 ±0.519**	1.54 ±0.304	4.35 ±1.422*
	CD4 t-cells	0.36 ±0.018	2.12 ±0.158***	0.41 ±0.092	1.44 ±0.559*
	CD8 t-cells	0.24 ±0.119	3.50 ±0.435***	0.38 ±0.255	1.87 ±0.959*
	B-cells	0.15 ±0.051	0.28 ±0.138	0.17 ±0.014	0.17 ±0.034

Supplementary table 6: Percentage (of gated cells) of different cell types in blood, spleen and kidney.

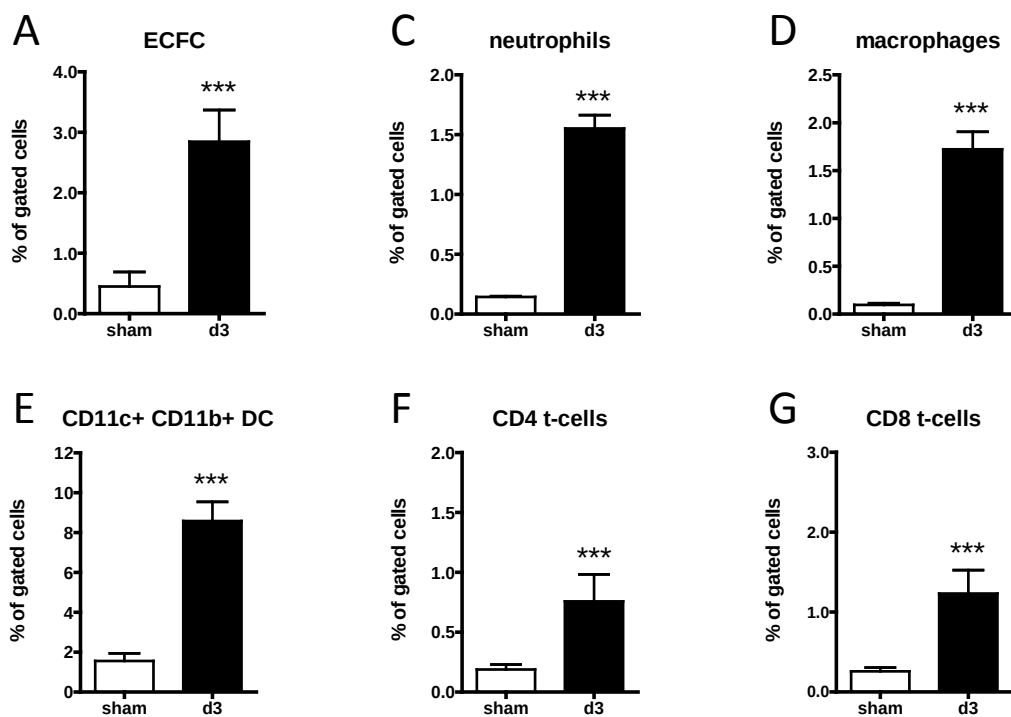
tdTomato positivity

> 75%

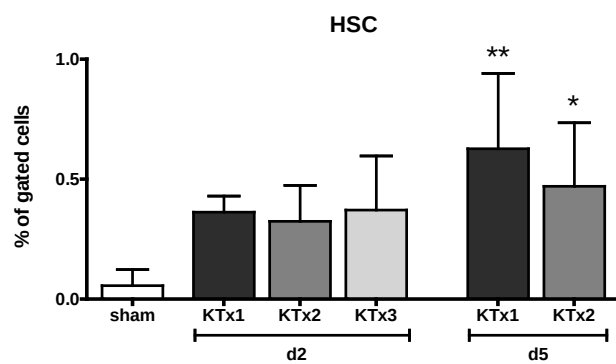
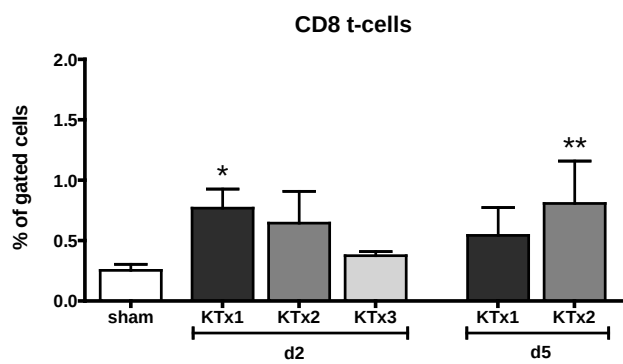
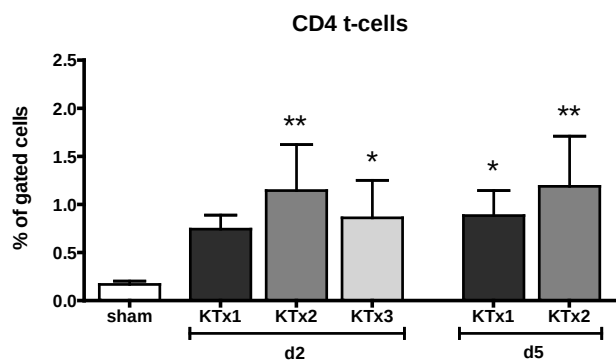
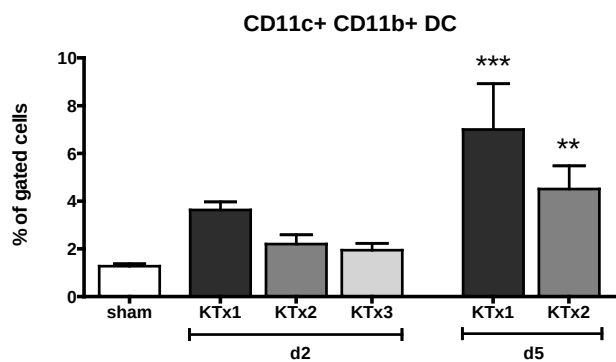
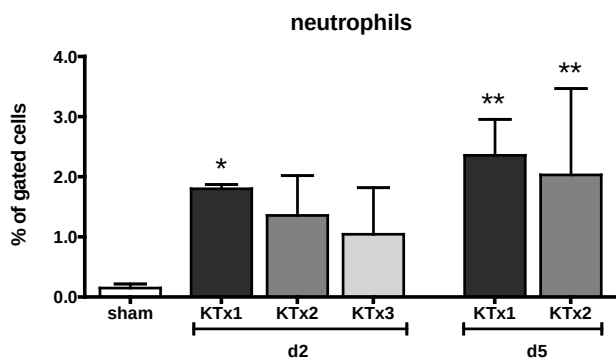
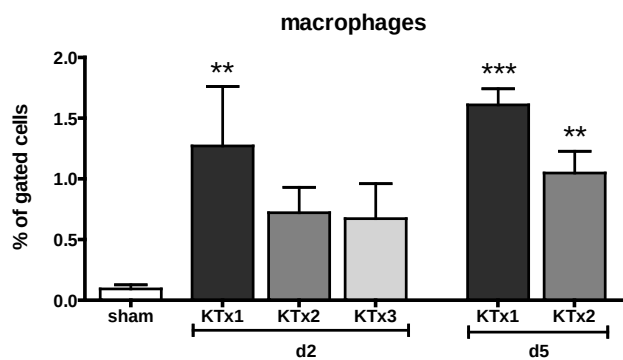
25 - 75%

< 25%

Ktx			KTx 1		KTx 2		KTx 3
	cells	sham (n=5)	d2 (n=4)	d5 (n=4)	d2 (n=4)	d5 (n=4)	d2 (n=4)
Spleen	ECFC	0	<0.001	0	0	0	0
	EC-CFU	0.004 ±0.002	0.010 ±0.003	0.006 ±0.003	0.002 ±0.001	0.003 ±0.001	0.016 ±0.009
Blood	ECFC	0	<0.001	0	0	0	0
	EC-CFU	0.001 ±0.001	0.002 ±0.001	0.005 ±0.005	<0.001	0.003 ±0.002	0.001 ±0.001
Kidney	ECFC	0.79 ±0.14	2.67 ±0.58***	2.31 ±0.27**	1.96 ±0.74*	2.15 ±0.68**	1.86 ±0.61*
	EC-CFU	0.001±0.001	0.005 ±0.003	0.009 ±0.006	0.003 ±0.003	0.004 ±0.004	0.002 ±0.002
	HSC	0.06 ±0.07	0.36 ±0.067	0.63 ±0.31**	0.33 ±0.15	0.47 ±0.26*	0.37 ±0.23
	macrophages	0.09 ±0.04	1.27 ±0.49**	1.61 ±0.13***	0.72 ±0.42	1.05 ±0.36**	0.67 ±0.58
	neutrophils	0.15 ±0.07	1.80 ±0.07*	2.36 ±0.60**	1.36 ±0.66	2.03 ±1.44**	1.05 ±0.77
	CD11c+ CD11b+ DC	1.28 ±0.09	3.63 ±0.33	7.01 ±1.91***	2.20 ±0.78	4.51 ±1.94**	1.94 ±0.71
	CD4 t-cells	0.19 ±0.03	0.74 ±0.15	0.88 ±0.26*	1.15 ±0.48**	1.19 ±0.52**	0.86 ±0.39*
	CD8 t-cells	0.25 ±0.05	0.77 ±0.16*	0.54 ±0.23	0.65 ±0.26	0.81 ±0.35**	0.38 ±0.03
	B-cells	0.15 ±0.001	0.48 ±0.23	0.93 ±0.25*	0.47 ±0.18	1.06 ±0.61**	0.26 ±0.17



Supplementary figure 2: Endothelial progenitor cells and leukocytes in β -action bone marrow transplanted mice following I/R.



Supplementary figure 3: Endothelial progenitor cells and leukocytes kidney transplanted mice.