

**S2 Table. Analysis of the divisional outcome** - Single daughter pair transplants outcome for each sample set is shown. DA= daughter A; DB=daughter B. S = cell retrospectively defined as stem cell; P = cell retrospectively defined as progenitor. SymS= symmetric self-renewal; Asym=asymmetric; SymD=symmetric differentiation. n.e.=not engrafted.

Daughter pair n.	Young+Wnt5a			Young Ctr			Aged Ctr			Aged CASIN		
	DA	DB	Outcome	DA	DB	Outcome	DA	DB	Outcome	DA	DB	Outcome
1	S	S	SymS	P	S	Asym	S	S	SymS	P	S	Asym
2	S	S	SymS	S	S	SymS	S	S	SymS	S	P	Asym
3	S	S	SymS	S	P	Asym	S	S	SymS	S	S	SymS
4	P	S	Asym	P	S	Asym	S	S	SymS	n.e.	n.e.	--
5	S	S	SymS	S	P	Asym	S	S	SymS	n.e.	n.e.	--
6	n.e.	n.e.	--	S	S	SymS	P	S	Asym	P	S	Asym
7	n.e.	n.e.	--	P	S	Asym	S	n.e.	--	P	S	Asym
8	S	S	SymS	P	S	Asym	n.e.	P	--	S	P	Asym
9	S	S	SymS	n.e.	n.e.	--	P	S	Asym	n.e.	n.e.	--
10	S	S	SymS	P	S	Asym	S	S	SymS	n.e.	n.e.	--
11				S	S	SymS	S	S	SymS	P	S	Asym
12				S	P	Asym	n.e.	S	--	S	P	Asym
13				P	S	Asym	P	S	Asym	n.e.	P	--
14				n.e.	n.e.	--	S	S	SymS			
15				n.e.	S	--	P	P	SymD			
16				n.e.	n.e.	--	S	S	SymS			
Total engraft	8	8	8	12	14	12	14	15	13	8	9	8
Efficiency pair			80%			75%			81.25%			61.5%