

**S3 Table. Analysis of frequency of reconstitution** – For each single sample set the number and frequency of single and pair wise mice is listed. The p value refers to the Chi-square test based on the symmetric and asymmetric divisional outcomes.

	Mice reconstituted	Frequency	Mice reconstituted Pairs	Frequency pairs	Symmetric outcome	Asymmetric outcome	p value (Chi-square vs Young Ctr)	p value (Chi-square vs Aged Ctr)
<b>Young Ctr</b>	26/32	81.25%	12/16	75%	3/12 (25%)	9/12 (75%)	---	0.0094
<b>Aged Ctr</b>	29/32	90.6%	13/16	81.25%	10/13 (76.9%)	3/13 (23.1%)	0.0094	---
<b>Aged+CASIN</b>	17/26	65.4%	8/13	61.5%	1/8 (12.5%)	7/8 (87.5%)	0.4936	0.0041
<b>Young+Wnt5a</b>	16/20	80.0%	8/10	80%	7/8 (87.5%)	1/8 (12.5%)	0.0062	0.5489
<b>Total</b>	88/110	80.0%	40/55	72.7%				