

**Supplementary Table 4A. Distribution of descendants of early dividing 2-cell and 4-cell blastomeres at the blastocyst stage - EE**

Type	Name	Tit																			
		Total cells	Total early	Total Embryonic	% Embryonic	Early in BZ	Early crossing BZ to Abernryonic	Total late	Total Abernryonic	% Abernryonic	Total 1/4 unlabeled blastomere	1/4 unlabeled blastomere in BZ	1/4 unlabeled crossing BZ to Embryonic	Total 1/4 labeled blastomere	1/4 labeled blastomere in BZ	1/4 labeled crossin BZ to Embryonic	Total BZ	% Early in BZ	% Late in BZ	% Late in BZ	
		E1+E2+E3+E4	E1+E2			E1+E2	E1+E2	E3+E4			E3	E3	E3	E4	E4	E4	E1+E2+E3+E4	E1+E2	E3	E4	
Embryonic - Abernryonic	1	31	17	11	100%	5	1	14	11	91%	8	3	0	6	1	0	9	56%	33%	11%	7
	4	31	17	16	56%	6	2	14	6	67%	8	1	7	6	2	0	9	67%	11%	22%	57
	2	30	14	13	46%	4	4	16	9	56%	6	0	6	10	4	1	8	50%	0%	50%	68
	3	30	15	13	46%	5	4	15	9	56%	7	1	6	8	2	1	8	63%	13%	25%	80
	Mean	30.3	15.3	14.0	50%	5	3.3	15.0	8.0	59%	7	0.7	6.3	8.0	2.7	0.7	8.3	60%	8%	32%	68.3

**Supplementary Table4 B. Distribution of descendants of late dividing 2-cell and 4-cell blastomeres at the blastocyst stage - EE**

Type	Name	Total cells	Total late	Total Abembryonic	% Abembryonic	Late in BZ	Late crossing BZ to Embryonic	Total early	Total Embryonic	% Embryonic	Total I/4 unlabeled blastomere	I/4 unlabeled blastomere in BZ	I/4 unlabeled crossing BZ to Abembryonic	Total I/4 labeled blastomere	I/4 labeled blastomere in BZ	I/4 labeled crossing BZ to Abembryonic	Total BZ	% Late in BZ	% Early in BZ	Tilt	
		E1+E2+E3+E4	E3+E4			E3+E4	E3+E4	E1+E2			E1	E1	E1	E2	E2	E2	E1+E2+E3+E4	E3+E4	E1	E2	
Embryonic- Abembryonic	2	34	15	12	75%	5	1	19	13	92%	10	1	1	9	3	2	9	56%	11%	33%	23
	1	33	13	10	60%	4	3	20	14	79%	10	1	0	10	4	4	9	44%	11%	44%	68
	Mean	33.5	14.0	11.0	68%	4.5	2.0	19.5	13.5	85%	10.0	1.0	0.5	9.5	3.5	3.0	9.0	50%	11%	39%	45.5
Embryonic- Abembryonic reversed	3	35	15	12	8%	4	10	20	14	29%	11	4	3	9	1	8	9	44%	44%	11%	12