

Supplementary Table 1A. Distribution of descendants of early dividing 2-cell and 4-cell blastomeres at the blastocyst stage -ME

Type	Name	Total cells	Total early	Total Embryonic	%Embryonic Early	Early in BZ	Early crossing BZ to Abembryonic	Total late	Total Abembryonic	% Abembryonic	Total I/4 unlabeled blastomere	I/4 unlabeled blastomere in BZ	I/4 unlabeled crossing BZ to Embryonic	I/4 labeled blastomere in BZ	Total I/4 labeled blastomere	I/4 labeled crossing BZ to Embryonic	Total BZ	% Early in BZ	% Late in BZ	% Late in BZ	TIT
Embryonic - Abembryonic	3	29	15	11	100%	4	0	14	10	100%	8	0	0	6	4	0	8	50%	0%	50%	21
	6	33	17	13	100%	4	0	16	11	100%	9	0	0	7	5	0	9	44%	0%	56%	10
	11	39	22	14	100%	6	2	17	15	87%	9	4	0	7	0	0	10	60%	40%	0%	19
	14	31	16	11	100%	3	2	15	12	83%	7	4	0	8	1	0	8	38%	50%	13%	5
	16	31	15	12	100%	3	0	16	11	100%	8	1	0	8	4	0	8	38%	13%	50%	12
	22	27	15	10	100%	3	2	12	10	80%	5	1	0	7	3	0	7	43%	14%	43%	27
	7	44	23	20	95%	4	0	21	13	100%	10	5	1	12	2	0	11	36%	45%	18%	5
	18	40	21	18	94%	3	1	19	12	92%	10	6	1	9	1	0	10	30%	60%	10%	24
	10	42	22	17	94%	5	1	20	14	93%	10	6	1	10	0	0	11	45%	55%	0%	14
	21	29	17	14	93%	3	1	12	8	88%	5	1	0	7	3	1	7	43%	14%	43%	17
	9	55	29	26	92%	4	1	26	17	94%	15	6	0	11	2	2	12	33%	50%	17%	2
	19	30	16	13	92%	3	1	14	8	88%	6	2	1	8	4	0	9	33%	22%	44%	16
	1	30	15	12	92%	3	1	15	11	91%	8	4	1	7	0	0	7	43%	57%	0%	5
	5	27	15	12	92%	3	1	12	8	88%	5	1	0	7	3	1	7	43%	14%	43%	19
	15	34	19	12	92%	5	3	15	12	75%	8	1	0	7	4	1	10	50%	10%	40%	35
	23	31	15	11	91%	4	1	16	10	90%	7	1	0	9	5	1	10	40%	10%	50%	15
	17	44	25	20	85%	5	3	19	13	77%	8	1	0	11	5	3	11	45%	9%	45%	40
	4	30	16	13	85%	4	1	14	8	88%	7	1	1	7	4	1	9	44%	11%	44%	35
	13	32	17	13	85%	3	3	15	10	70%	6	4	2	9	2	0	9	33%	44%	22%	22
	12	33	19	15	80%	4	3	14	9	67%	8	3	2	6	2	1	9	44%	33%	22%	55
8	33	16	14	79%	3	2	17	10	80%	7	1	0	10	5	3	9	33%	11%	56%	28	
2	30	15	12	75%	4	2	15	9	78%	7	4	2	8	1	1	9	44%	44%	11%	53	
20	42	21	18	72%	4	4	21	13	69%	11	3	2	10	4	3	11	36%	27%	36%	±	
Mean	34.61	18	14	91%	4	2	16	11	86%	8	3	1	8	3	1	9	41%	28%	31%	22	
Non Embryonic - Abembryonic	24	29	16	11	64%	4	5	13	9	44%	7	2	3	6	3	1	9	44%	22%	33%	72
	26	28	14	10	60%	3	5	14	10	50%	7	4	0	7	1	4	8	38%	50%	13%	56
	25	30	15	13	54%	4	4	15	8	50%	8	4	5	7	1	1	9	44%	44%	11%	73
	Mean	29.0	15.0	11.3	59%	3.7	4.7	14.0	9.0	48%	7.3	3.3	2.7	6.7	1.7	2.0	8.7	42%	39%	19%	67.0

Supplementary Table 1B. Distribution of descendants of late dividing 2-cell and 4-cell blastomeres at the blastocyst stage - ME

Title	Total cells	Total late	Total Abembryonic	% Abembryonic	Late in BZ	Late crossing BZ to Embryonic		Total early	Total Embryonic	% Embryonic	Total 1/4 unlabeled blastomere	1/4 unlabeled blastomere in BZ	1/4 unlabeled crossing BZ to Abembryonic	Total 1/4 labeled blastomere	1/4 labeled blastomere in BZ	I/4 labeled crossing BZ to Abembryonic	Total BZ	% Late in BZ	% Early in BZ		Tit
						E1+E2	M1+E2												M1	M2	
Embryonic - Abembryonic	4	31	15	10	100%	5	0	16	13	100%	8	0	0	8	3	0	8	63%	0%	38%	20
	2	27	11	9	89%	3	0	16	11	100%	7	3	0	9	1	1	7	43%	43%	14%	15
	3	41	20	15	87%	6	1	21	16	94%	10	3	1	11	1	1	10	60%	30%	10%	21
	5	27	13	9	89%	4	1	14	11	91%	5	3	1	8	0	0	7	57%	43%	0%	14
	1	28	13	7	100%	4	2	15	13	85%	8	1	0	7	3	0	8	50%	13%	38%	46
	Mean	30.8	14.4	10.0	93%	4.4	0.8	16.4	12.8	94%	7.6	2.0	0.4	8.6	1.6	0.4	8.0	55%	26%	20%	23.2
Embryonic - Abembryonic - reversed	6	28	14	8	13%	4	9	14	12	25%	7	3	1	7	1	6	8	50%	38%	13%	51
Non Embryonic - Abembryonic	7	34	15	9	56%	4	6	19	16	63%	11	2	3	8	3	1	9	44%	22%	33%	76
	8	46	24	14	57%	6	10	22	21	52%	8	3	4	14	2	2	11	55%	27%	18%	56
	Mean	40.0	19.5	11.5	56%	5.0	8.0	20.5	18.5	57%	9.5	2.5	3.5	11	2.5	1.5	10.0	49%	25%	26%	66.0