Supplementary Tables

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	1	2	3	4	5	6	7
aNSC	3	0	21	55	15	46	12
NPC	2	0	2	2	1	11	13
qNSC	22	33	10	0	1	1	2

Table 1: Comparison of experimentally measured cell types (rows) and Ouija-inferred cell types (columns) for the Dulken et al. dataset.

	1	2	3	4	5	6	7	8
00h	81	11	0	0	0	0	0	0
12h	0	42	60	0	0	0	0	0
24h	0	0	65	0	1	0	0	0
36h	0	0	17	47	70	25	10	3
72h	0	0	0	0	33	42	18	45
96h	0	0	0	0	45	38	36	69

Table 2: Comparison of cell capture times (rows) and Ouija-inferred cell types (columns) for the Chu et al. dataset.

Number of genes	Simulation regime	p-value
6	Sigmoidal	2.6E-03
6	Complementary log-log	1.3E-05
6	Probit	1.3E-04
6	Threshold	5.9E-28
9	Sigmoidal	1.8E-04
9	Complementary log-log	6.7E-07
9	Probit	3.3E-09
9	Threshold	3.3E-12
12	Sigmoidal	2.0E-03
12	Complementary log-log	1.8E-06
12	Probit	2.5E-08
12	Threshold	9.2E-06
15	Sigmoidal	3.0E-03
15	Complementary log-log	4.2E-06
15	Probit	2.0E-09
15	Threshold	6.7E-03

Table 3: P-values reported by Wilcoxon rank-sum test on the correlations to true pseudotime comparing informative priors to noninformative priors.