

Laser-induced injury of the skin: validation of a computer model to predict thresholds: supplement

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Table S1. Collection of experimental ED₅₀s and computer model results (λ for wavelength, τ for pulse duration, f for repetition frequency, N for number of pulses, D for 1/e beam diameter, R_{ED50} for ratio of computer model injury threshold to ED₅₀ value, δ for predicted depth of injury). No R_{ED50} means the ED₅₀ data was not used (see text).

λ [nm]	τ	F [Hz]	N	D [mm]	ED ₅₀ [J·cm ⁻²]	Model	Ref.	R _{ED50}	δ [μm]
488	1 s	1	1	3.54	5.64	Chinese human	38	0.71	5
488	1 s	1	1	3.54	5.6	Chinese human	39	0.71	5
488	8 s	1	1	3.48	16.8	Caucasian human	44	0.95	15
500	1 s	1	1	10.50	5.98	Caucasian human	21	1.00	5
500	1 s	1	1	10.50	6.02	Caucasian human	21	0.99	5
500	1 s	1	1	10.50	4.87	Negro human	21	0.87	5
500	1 s	1	1	10.50	5.98	Negro human	21	0.71	5
500	1 s	1	1	10.50	5.98	Negro human	21	0.71	5
500	1 s	1	1	10.50	4.18	Negro human	21	0.98	5
500	1 s	1	1	10.50	4.5	Negro human	21	0.91	5
500	1 s	1	1	10.50	4.5	Negro human	21	0.91	5
514	1 s	1	1	3.54	7.05	Chinese human	38	0.59	5
514	6 s	1	1	12.00	22.4	Yorkshire pig	46	0.58	15
694	2.5 ms	1	1	10.50	15.6	Caucasian human	21	0.75	5
694	2.5 ms	1	1	10.50	15.6	Caucasian human	21	0.75	5
694	2.5 ms	1	1	10.50	6.58	Negro human	21	0.72	5
694	2.5 ms	1	1	10.50	6.45	Negro human	21	0.74	5
694	2.5 ms	1	1	10.50	2.21	Negro human	21	1.76	5
694	2.5 ms	1	1	10.50	2.21	Negro human	21	1.76	5
694	0.3 ms	1	1	3.54	4.7	Chinese human	36	0.93	5
694	0.2 ms	1	1	0.60	17.5	Caucasian human	44	2.15	5
694	2 ms	1	1	4.00	42	Chester white pig	44	-	-
694	2 ms	1	1	4.00	2.2	Hampshire/Duroc pig	44	1.76	5
694	0.3 ms	1	1	5.00	53.3	White pig	51	-	-
755	3 ms	1	1	8.00	25	Human	48	0.55	5
1060	1 s	1	1	3.54	59.4	pig	18	1.28	25
1060	1 s	1	1	3.54	65.5	Chinese human	18	1.31	30
1060	1 s	1	1	3.54	61	Chinese human	18	1.01	25
1060	1 s	1	1	3.54	52.4	Chinese human	18	1.02	20
1060	1 s	1	1	10.50	67.6	Caucasian human	21	1.28	30
1060	1 s	1	1	10.50	68.7	Caucasian human	21	1.26	30
1060	1 s	1	1	10.50	70.1	Caucasian human	21	1.24	30
1060	1 s	1	1	10.50	43.3	Negro human	21	1.25	20
1060	1 s	1	1	10.50	55.3	Negro human	21	0.98	20
1060	1 s	1	1	10.50	58.5	Negro human	21	0.93	20
1060	1 s	1	1	3.54	74.4	Human	28	0.83	25
1060	1 s	1	1	3.54	86.7	Human	28	0.71	25
1060	1 s	1	1	3.54	102	Human	28	0.60	25
1060	0.2 ms	1	1	3.54	9.92	Chinese human	39	-	-

1060	0.3 ms	1	1	5.00	26	Chinese human	40	1.30	5
1060	0.3 ms	1	1	5.00	20.9	Chinese human	40	1.62	5
1060	0.3 ms	1	1	5.00	22.8	Chinese human	40	1.49	5
1070	10 ms	1	1	4.24	46.7	Yucatan mini-pig	29	0.89	10
1070	10 ms	1	1	4.24	28.3	Yucatan mini-pig	29	1.47	10
1070	10 ms	1	1	7.78	36.4	Yucatan mini-pig	29	1.12	10
1070	10 ms	1	1	7.78	33.9	Yucatan mini-pig	29	1.20	10
1070	10 ms	1	1	16.97	23.7	Yucatan mini-pig	29	1.71	10
1070	10 ms	1	1	16.97	20.6	Yucatan mini-pig	29	1.97	10
1070	25 ms	1	1	16.97	17.9	Yucatan mini-pig	29	2.34	5
1070	25 ms	1	1	16.97	19	Yucatan mini-pig	29	2.21	5
1070	25 ms	1	1	33.23	36.3	Yucatan mini-pig	29	1.16	5
1070	25 ms	1	1	33.23	24.6	Yucatan mini-pig	29	1.71	5
1070	50 ms	1	1	13.43	41.1	Yucatan mini-pig	29	1.11	5
1070	50 ms	1	1	13.43	34.3	Yucatan mini-pig	29	1.33	5
1070	70 ms	1	1	4.24	89.8	Yucatan mini-pig	29	0.53	5
1070	70 ms	1	1	4.24	78.5	Yucatan mini-pig	29	0.61	5
1070	100 ms	1	1	7.78	47.8	Yucatan mini-pig	29	1.03	10
1070	100 ms	1	1	7.78	47.6	Yucatan mini-pig	29	1.03	10
1070	100 ms	1	1	33.23	32.6	Yucatan mini-pig	29	1.49	10
1070	100 ms	1	1	33.23	30.8	Yucatan mini-pig	29	1.57	10
1070	250 ms	1	1	13.43	55	Yucatan mini-pig	29	1.03	10
1070	250 ms	1	1	13.43	52.3	Yucatan mini-pig	29	1.08	10
1070	250 ms	1	1	16.97	24.2	Yucatan mini-pig	29	2.31	10
1070	250 ms	1	1	16.97	24.4	Yucatan mini-pig	29	2.29	10
1070	250 ms	1	1	33.23	37.5	Yucatan mini-pig	29	1.49	10
1070	250 ms	1	1	33.23	34	Yucatan mini-pig	29	1.64	10
1070	250 ms	1	1	67.17	32.2	Yucatan mini-pig	29	1.73	10
1070	250 ms	1	1	67.17	31.7	Yucatan mini-pig	29	1.76	10
1070	10 s	1	1	4.24	413	Yucatan mini-pig	29	0.41	75
1070	10 s	1	1	4.24	404	Yucatan mini-pig	29	0.42	75
1070	10 s	1	1	7.78	163	Yucatan mini-pig	29	0.87	80
1070	10 s	1	1	7.78	173	Yucatan mini-pig	29	0.82	80
1070	10 s	1	1	13.43	114	Yucatan mini-pig	29	1.15	85
1070	10 s	1	1	13.43	109	Yucatan mini-pig	29	1.21	85
1070	0.1 ms	5000	100	7.35	32.6	Yucatan mini-pig	30	1.25	5
1070	0.1 ms	5000	100	7.35	31.2	Yucatan mini-pig	30	1.30	5
1070	0.1 ms	2500	100	7.35	29.6	Yucatan mini-pig	30	1.43	5
1070	0.1 ms	2500	100	7.35	33.8	Yucatan mini-pig	30	1.25	5
1070	0.1 ms	1000	100	7.35	36.2	Yucatan mini-pig	30	1.28	5
1070	0.1 ms	1000	100	7.35	36	Yucatan mini-pig	30	1.29	5
1070	0.3333 ms	1500	30	7.35	31.2	Yucatan mini-pig	30	1.37	5
1070	0.3333 ms	1500	30	7.35	34.4	Yucatan mini-pig	30	1.24	5
1070	0.3333 ms	750	30	7.35	32.4	Yucatan mini-pig	30	1.36	5
1070	0.3333 ms	750	30	7.35	34.6	Yucatan mini-pig	30	1.28	5
1070	0.3333 ms	300	30	7.35	38.4	Yucatan mini-pig	30	1.26	5
1070	0.3333 ms	300	30	7.35	39.4	Yucatan mini-pig	30	1.22	5
1070	1 ms	500	100	7.35	78	Yucatan mini-pig	30	0.65	20
1070	1 ms	500	100	7.35	76	Yucatan mini-pig	30	0.67	20
1070	1 ms	250	100	7.35	90.2	Yucatan mini-pig	30	0.62	20

1070	1 ms	250	100	7.35	87.4	Yucatan mini-pig	30	0.64	20
1070	1 ms	100	100	7.35	98	Yucatan mini-pig	30	0.66	20
1070	1 ms	100	100	7.35	97.6	Yucatan mini-pig	30	0.66	20
1070	1 ms	500	10	7.35	30.8	Yucatan mini-pig	30	1.32	5
1070	1 ms	500	10	7.35	35.2	Yucatan mini-pig	30	1.15	5
1070	1 ms	250	10	7.35	26	Yucatan mini-pig	30	1.63	5
1070	1 ms	250	10	7.35	37.2	Yucatan mini-pig	30	1.14	5
1070	1 ms	100	10	7.35	40.6	Yucatan mini-pig	30	1.14	5
1070	1 ms	100	10	7.35	40	Yucatan mini-pig	30	1.16	5
1070	3.333 ms	150	30	7.35	78.2	Yucatan mini-pig	30	0.68	20
1070	3.333 ms	150	30	7.35	74.8	Yucatan mini-pig	30	0.71	20
1070	3.333 ms	75	30	7.35	86	Yucatan mini-pig	30	0.69	20
1070	3.333 ms	75	30	7.35	76.4	Yucatan mini-pig	30	0.77	20
1070	3.333 ms	30	30	7.35	110	Yucatan mini-pig	30	0.62	15
1070	3.333 ms	30	30	7.35	99	Yucatan mini-pig	30	0.69	15
1070	10 ms	50	10	7.35	81	Yucatan mini-pig	30	0.63	15
1070	10 ms	50	10	7.35	76.4	Yucatan mini-pig	30	0.66	15
1070	10 ms	25	10	7.35	80.2	Yucatan mini-pig	30	0.70	15
1070	10 ms	25	10	7.35	83.2	Yucatan mini-pig	30	0.67	15
1070	10 ms	10	10	7.35	105	Yucatan mini-pig	30	0.62	15
1070	10 ms	10	10	7.35	105	Yucatan mini-pig	30	0.62	15
1070	10 ms	1	1	7.35	28.2	Yucatan mini-pig	30	1.45	10
1070	10 ms	1	1	7.35	35.6	Yucatan mini-pig	30	1.15	10
1070	10 ms	1	1	7.35	70.4	Yucatan mini-pig	30	0.72	10
1070	10 ms	1	1	7.35	54.4	Yucatan mini-pig	30	0.93	10
1070	100 ms	1	1	7.35	61.4	Yucatan mini-pig	30	0.78	10
1070	100 ms	1	1	7.35	66.4	Yucatan mini-pig	30	0.72	10
1070	100 ms	8	100	7.35	137	Yucatan mini-pig	30	0.99	40
1070	100 ms	8	100	7.35	156	Yucatan mini-pig	30	0.87	40
1070	100 ms	5	100	7.35	141	Yucatan mini-pig	30	1.24	30
1070	100 ms	5	100	7.35	200	Yucatan mini-pig	30	0.87	30
1070	100 ms	2.5	100	7.35	200	Yucatan mini-pig	30	1.32	25
1070	100 ms	2.5	100	7.35	242	Yucatan mini-pig	30	1.09	25
1070	100 ms	1	1	7.35	81.4	Yucatan mini-pig	30	0.72	10
1070	100 ms	1	1	7.35	81.6	Yucatan mini-pig	30	0.72	10
1070	333 ms	2.4	30	7.35	132	Yucatan mini-pig	30	1.07	30
1070	333 ms	2.4	30	7.35	160	Yucatan mini-pig	30	0.88	30
1070	333 ms	1.5	30	7.35	151	Yucatan mini-pig	30	1.20	25
1070	333 ms	1.5	30	7.35	195	Yucatan mini-pig	30	0.93	25
1070	333 ms	0.75	30	7.35	200	Yucatan mini-pig	30	1.35	20
1070	333 ms	0.75	30	7.35	240	Yucatan mini-pig	30	1.12	20
1070	1 s	0.8	10	7.35	136	Yucatan mini-pig	30	0.99	35
1070	1 s	0.8	10	7.35	173	Yucatan mini-pig	30	0.78	35
1070	1 s	0.5	10	7.35	172	Yucatan mini-pig	30	0.99	35
1070	1 s	0.5	10	7.35	190	Yucatan mini-pig	30	0.90	35
1070	1 s	0.25	10	7.35	190	Yucatan mini-pig	30	1.27	30
1070	1 s	0.25	10	7.35	252	Yucatan mini-pig	30	0.96	30
1070	10 s	1	1	7.35	139	Yucatan mini-pig	30	1.04	80
1070	10 s	1	1	7.35	167	Yucatan mini-pig	30	0.86	80
1070	10 s	1	1	7.35	152	Yucatan mini-pig	30	1.02	100

1070	10 s	1	1	7.35	172	Yucatan mini-pig	30	0.90	100
1214	981 ms	1	1	4.24	59.7	Sinclair/Hanford pig	35	0.77	45
1214	981 ms	1	1	5.66	55	Sinclair/Hanford pig	35	0.80	45
1214	981 ms	1	1	7.07	57.5	Sinclair/Hanford pig	35	0.76	45
1214	3.05 s	1	1	4.24	79	Sinclair/Hanford pig	35	0.71	90
1214	3.05 s	1	1	7.07	54.4	Sinclair/Hanford pig	35	0.95	90
1214	9.81 s	1	1	4.24	90.2	Sinclair/Hanford pig	35	0.91	225
1214	9.81 s	1	1	5.66	68.7	Sinclair/Hanford pig	35	1.07	250
1214	9.81 s	1	1	7.07	66.7	Sinclair/Hanford pig	35	1.03	260
1314	0.35 ms	1	1	0.70	111	Yucatan mini-pig	24	0.69	5
1314	0.35 ms	1	1	0.70	99	Yucatan mini-pig	24	0.78	5
1314	0.35 ms	1	1	1.30	95	Yucatan mini-pig	24	0.42	5
1314	0.35 ms	1	1	1.30	83	Yucatan mini-pig	24	0.48	5
1314	0.35 ms	1	1	0.70	118	Yucatan mini-pig	42	0.65	5
1314	0.35 ms	1	1	0.70	108	Yucatan mini-pig	42	0.71	5
1314	0.35 ms	1	1	1.30	92.5	Yucatan mini-pig	42	0.43	5
1314	0.35 ms	1	1	1.30	73.7	Yucatan mini-pig	42	0.54	5
1318	0.5 ms	1	1	0.17	1572	Yucatan mini-pig	41	1.02	5
1318	0.5 ms	1	1	0.17	1552	Yucatan mini-pig	41	1.04	5
1319	250 ms	1	1	4.31	46.9	Yucatan mini-pig	43	1.01	35
1319	250 ms	1	1	4.31	42.8	Yucatan mini-pig	43	1.11	35
1319	250 ms	1	1	6.86	37.3	Yucatan mini-pig	43	1.23	35
1319	250 ms	1	1	6.86	36.2	Yucatan mini-pig	43	1.26	35
1319	1 s	1	1	4.31	42.6	Yucatan mini-pig	43	1.26	85
1319	1 s	1	1	4.31	42.6	Yucatan mini-pig	43	1.26	85
1319	1 s	1	1	6.86	33.6	Yucatan mini-pig	43	1.47	85
1319	1 s	1	1	6.86	37.1	Yucatan mini-pig	43	1.33	85
1319	2.5 s	1	1	4.31	46.7	Yucatan mini-pig	43	1.27	150
1319	2.5 s	1	1	4.31	50.5	Yucatan mini-pig	43	1.18	150
1319	2.5 s	1	1	6.86	37.9	Yucatan mini-pig	43	1.48	155
1319	2.5 s	1	1	6.86	40.9	Yucatan mini-pig	43	1.37	155
1319	10 s	1	1	4.31	60.8	Yucatan mini-pig	43	1.50	295
1319	10 s	1	1	4.31	62.3	Yucatan mini-pig	43	1.46	295
1319	10 s	1	1	6.86	44.9	Yucatan mini-pig	43	1.72	310
1319	10 s	1	1	6.86	50.6	Yucatan mini-pig	43	1.53	310
1319	400 ms	1	1	6.93	35.5	Ghuizhou mini-pig	49	1.35	50
1319	400 ms	1	1	6.93	39	Ghuizhou mini-pig	49	1.23	50
1319	1 s	1	1	6.93	36.1	Ghuizhou mini-pig	49	1.37	85
1319	1 s	1	1	6.93	40.8	Ghuizhou mini-pig	49	1.21	85
1319	3 s	1	1	6.93	37.1	Ghuizhou mini-pig	49	1.55	175
1319	3 s	1	1	6.93	43.5	Ghuizhou mini-pig	49	1.32	175
1319	3 s	1	1	13.86	28.6	Ghuizhou mini-pig	49	1.90	175
1319	3 s	1	1	13.86	31.8	Ghuizhou mini-pig	49	1.71	175
1540	2.5 ms	1	1	5.50	5.7	Domestic pig	23	2.09	155
1540	2.5 ms	1	1	5.50	6.5	Domestic pig	23	1.83	155
1540	2.5 ms	1	1	2.00	6.8	Domestic pig	23	1.76	155
1540	2.5 ms	1	1	2.70	6.5	Domestic pig	23	1.83	155
1540	2.5 ms	1	1	5.60	7	Domestic pig	23	1.70	155
1540	2.5 ms	1	1	10.00	6	Domestic pig	23	1.98	155
1540	2.5 ms	1	1	6.50	5.4	Domestic pig	23	2.20	155

1540	2.5 ms	1	1	6.50	5.5	Domestic pig	23	2.16	155
1540	2.5 ms	0.1	2	6.50	9.6	Domestic pig	23	1.85	155
1540	2.5 ms	0.1	2	6.50	9.8	Domestic pig	23	1.81	155
1540	2.5 ms	0.1	4	6.50	14.4	Domestic pig	23	1.89	155
1540	2.5 ms	0.1	4	6.50	15.2	Domestic pig	23	1.79	155
1540	2.5 ms	0.1	8	6.50	22.4	Domestic pig	23	1.90	155
1540	2.5 ms	0.1	8	6.50	23.2	Domestic pig	23	1.85	155
1540	2.5 ms	0.1	16	6.50	40	Domestic pig	23	1.63	155
1540	2.5 ms	0.1	16	6.50	43.2	Domestic pig	23	1.52	155
1540	2.5 ms	0.1	32	6.50	48	Domestic pig	23	2.08	155
1540	2.5 ms	0.1	32	6.50	64	Domestic pig	23	1.57	155
1540	2.5 ms	0.1	64	6.50	64	Domestic pig	23	2.39	155
1540	2.5 ms	0.1	64	6.50	96	Domestic pig	23	1.61	155
1540	0.6 ms	1	1	0.70	26	Yucatan mini-pig	24	1.10	135
1540	0.6 ms	1	1	0.70	20	Yucatan mini-pig	24	1.43	135
1540	0.6 ms	1	1	1.00	11	Yucatan mini-pig	24	1.93	135
1540	0.6 ms	1	1	1.00	8.1	Yucatan mini-pig	24	2.62	135
1540	0.6 ms	1	1	5.00	6.4	Yucatan mini-pig	24	1.89	135
1540	0.6 ms	1	1	5.00	7.4	Yucatan mini-pig	24	1.63	135
1540	0.8 ms	1	1	0.44	86.1	Yorkshire pig	45	0.84	145
1540	0.8 ms	1	1	0.40	107	Yucatan mini-pig	45	0.80	145
1940	10 ms	1	1	3.39	2.7	Yucatan mini-pig	7	0.92	140
1940	10 ms	1	1	3.39	2.22	Yucatan mini-pig	7	1.11	140
1940	50 ms	1	1	7.07	3.79	Yucatan mini-pig	7	0.74	135
1940	50 ms	1	1	7.07	2.95	Yucatan mini-pig	7	0.95	135
1940	70 ms	1	1	3.39	11.4	Yucatan mini-pig	7	-	-
1940	70 ms	1	1	3.39	9.03	Yucatan mini-pig	7	-	-
1940	70 ms	1	1	12.73	3.73	Yucatan mini-pig	7	0.77	135
1940	70 ms	1	1	12.73	2.93	Yucatan mini-pig	7	0.98	135
1940	10 s	1	1	3.39	23.2	Yucatan mini-pig	7	0.62	75
1940	10 s	1	1	3.39	22.3	Yucatan mini-pig	7	0.64	75
1940	10 s	1	1	12.73	12.3	Yucatan mini-pig	7	0.87	90
1940	10 s	1	1	12.73	12.7	Yucatan mini-pig	7	0.84	90
1940	0.5 ms	1000	300	7.64	3.61	Yucatan mini-pig	52	0.89	135
1940	0.5 ms	1000	1000	7.64	5.79	Yucatan mini-pig	52	0.71	135
1940	0.5 ms	1000	3000	7.64	8.65	Yucatan mini-pig	52	0.66	135
1940	0.5 ms	200	300	7.64	4.39	Yucatan mini-pig	52	1.07	135
1940	0.5 ms	200	1000	7.64	7.53	Yucatan mini-pig	52	0.98	135
1940	0.5 ms	200	3000	7.64	12.3	Yucatan mini-pig	52	0.96	135
1940	0.5 ms	100	300	7.64	5.7	Yucatan mini-pig	52	1.04	135
1940	0.5 ms	100	1000	7.64	10.4	Yucatan mini-pig	52	1.09	135
1940	0.5 ms	100	3000	7.64	21.9	Yucatan mini-pig	52	0.94	135
2000	250 ms	1	1	3.42	5.79	Yucatan mini-pig	6	0.73	140
2000	250 ms	1	1	6.82	5.28	Yucatan mini-pig	6	0.76	140
2000	250 ms	1	1	10.36	3.5	Yucatan mini-pig	6	1.13	140
2000	500 ms	1	1	3.42	9.39	Yucatan mini-pig	6	0.51	130
2000	500 ms	1	1	6.82	4.01	Yucatan mini-pig	6	1.12	130
2000	500 ms	1	1	10.36	4.46	Yucatan mini-pig	6	0.98	130
2000	1 s	1	1	3.42	7.75	Yucatan mini-pig	6	0.72	125
2000	1 s	1	1	6.82	5.77	Yucatan mini-pig	6	0.87	120

2000	1 s	1	1	10.36	4.72	Yucatan mini-pig	6	1.05	120
2000	2.5 s	1	1	3.42	6.28	Yucatan mini-pig	6	1.20	120
2000	2.5 s	1	1	6.82	9.02	Yucatan mini-pig	6	0.74	120
2000	2.5 s	1	1	10.36	6.17	Yucatan mini-pig	6	1.04	120
2000	1 s	1	1	3.42	8.19	Yucatan mini-pig	31	0.68	125
2000	1 s	1	1	3.42	8.19	Yucatan mini-pig	31	0.68	125
2000	250 ms	1	1	3.42	7.15	Yucatan mini-pig	53	0.59	140
2000	250 ms	1	1	6.82	5.78	Yucatan mini-pig	53	0.69	140
2000	250 ms	1	1	10.36	4.77	Yucatan mini-pig	53	0.83	140
2000	500 ms	1	1	3.42	8.13	Yucatan mini-pig	53	0.59	130
2000	500 ms	1	1	6.82	6.75	Yucatan mini-pig	53	0.67	130
2000	500 ms	1	1	10.36	5.02	Yucatan mini-pig	53	0.87	130
2000	1 s	1	1	3.42	10.2	Yucatan mini-pig	53	0.55	125
2000	1 s	1	1	6.82	7.88	Yucatan mini-pig	53	0.64	120
2000	1 s	1	1	10.36	5.96	Yucatan mini-pig	53	0.83	120
2000	2.5 s	1	1	3.42	11.2	Yucatan mini-pig	53	0.67	120
2000	2.5 s	1	1	6.82	9.64	Yucatan mini-pig	53	0.69	120
2000	2.5 s	1	1	10.36	7.3	Yucatan mini-pig	53	0.88	120
2000	250 ms	1	1	3.18	4.93	Yucatan mini-pig	47	0.88	140
2000	250 ms	1	1	10.61	4.78	Yucatan mini-pig	47	0.83	140
2000	500 ms	1	1	3.18	10.9	Yucatan mini-pig	47	0.44	130
2000	500 ms	1	1	10.61	5.03	Yucatan mini-pig	47	0.87	130
2000	1 s	1	1	3.18	10.2	Yucatan mini-pig	47	0.57	125
2000	1 s	1	1	10.61	5.96	Yucatan mini-pig	47	0.84	120
2000	2.5 s	1	1	3.18	11	Yucatan mini-pig	47	0.72	120
2000	2.5 s	1	1	10.61	7.3	Yucatan mini-pig	47	0.88	120
3743	1 s	1	1	6.43	4.02	Ghuizhou mini-pig	50	1.16	45
3743	1 s	1	1	6.43	4.04	Ghuizhou mini-pig	50	1.16	45
3800	0.008 ms	1	1	22.50	3.72	Yucatan mini-pig	32	0.59	135
3800	0.008 ms	1	1	22.50	4.53	Yucatan mini-pig	32	0.49	135
10600	350 ms	1	1	5.42	2.99	Pig	8	0.72	5
10600	500 ms	1	1	5.42	3.36	Pig	8	0.74	5
10600	3 s	1	1	10.04	5.8	Pig	8	0.92	10
10600	1 s	1	1	10.50	2.35	Human	21	1.51	5
10600	1 s	1	1	10.50	2.9	Human	21	1.22	5
10600	1 s	1	1	10.50	2.9	Human	21	1.22	5
10600	4.05 ms	1	1	8.00	0.97	Yorkshire pig	25	0.75	5
10600	39.6 ms	1	1	13.30	1.48	Yorkshire pig	25	0.72	5
10600	275 ms	1	1	12.60	2.61	Yorkshire pig	25	0.74	5
10600	220 ms	1	1	16.90	2.99	Yorkshire pig	33	0.67	5
10600	300 ms	1	1	16.90	3.18	Yorkshire pig	33	0.70	5
10600	370 ms	1	1	16.90	2.81	Yorkshire pig	33	0.86	5
10600	710 ms	1	1	16.90	3.34	Yorkshire pig	33	0.94	5
10600	1.3 s	1	1	16.90	4.81	Yorkshire pig	33	0.84	5
10600	2.3 s	1	1	16.90	5.75	Yorkshire pig	33	0.90	5
10600	4.1 s	1	1	16.90	11.1	Yorkshire pig	33	0.61	10
10600	7.4 s	1	1	16.90	8.88	Yorkshire pig	33	1.01	10
10600	13.1 s	1	1	16.90	14.4	Yorkshire pig	33	0.84	15
10600	17.4 s	1	1	16.90	12.9	Yorkshire pig	33	1.09	15
10600	19.9 s	1	1	16.90	17.3	Yorkshire pig	33	0.87	20

10600	21.6 s	1	1	16.90	14.9	Yorkshire pig	33	1.06	20
10600	3.5 ms	1	1	20.00	0.77	Yorkshire pig	34	1.04	5
10600	1 s	1	1	3.54	2.25	Chinese human	37	1.53	5
10600	1 s	1	1	3.54	2.67	Chinese human	39	1.29	5
