

Supplementary table 1. *Caenorhabditis* divergence time estimates using 1st and 9th ds' deciles and mutation rates +/- 1 s.e.m.

lineage	genes	mutation rate	ds' (median)	divergence times based on median ds'						
				T (gen)	T (3.5d)	T (14d)	T (30d)	T (60d)	T (90d)	T (365d)
<i>C. japonica + internal branch</i>	354	9.00E-09	1.664	01.85E+08	01.77E+06	07.09E+06	15.20E+06	30.40E+06	45.59E+06	01.85E+08
<i>C. japonica</i>	308	9.00E-09	1.029	01.14E+08	01.10E+06	04.38E+06	09.40E+06	18.79E+06	28.19E+06	01.14E+08
<i>C. elegans</i>	356	9.00E-09	1.017	01.13E+08	01.08E+06	04.33E+06	09.29E+06	18.58E+06	27.87E+06	01.13E+08
<i>C. brenneri</i>	430	9.00E-09	1.027	01.14E+08	01.09E+06	04.38E+06	09.38E+06	18.76E+06	28.14E+06	01.14E+08
<i>C. remanei</i>	7662	9.00E-09	0.949	01.05E+08	01.01E+06	04.04E+06	08.67E+06	17.33E+06	26.00E+06	01.05E+08
<i>C. briggsae</i>	823	9.00E-09	0.809	89.89E+06	86.19E+04	03.45E+06	07.39E+06	14.78E+06	22.16E+06	89.89E+06
<i>C. sp. 5</i>	819	9.00E-09	0.730	81.06E+06	77.72E+04	03.11E+06	06.66E+06	13.32E+06	19.99E+06	81.06E+06
lineage	genes	mutation rate	ds' (10%)	divergence times based on 1st decile ds'						
				T (gen)	T (3.5d)	T (14d)	T (30d)	T (60d)	T (90d)	T (365d)
<i>C. japonica + internal branch</i>	354	9.00E-09	1.194	01.33E+08	01.27E+06	05.09E+06	10.90E+06	21.80E+06	32.71E+06	01.33E+08
<i>C. japonica</i>	308	9.00E-09	0.396	43.97E+06	42.16E+04	01.69E+06	03.61E+06	07.23E+06	10.84E+06	43.97E+06
<i>C. elegans</i>	356	9.00E-09	0.674	74.93E+06	71.85E+04	02.87E+06	06.16E+06	12.32E+06	18.48E+06	74.93E+06
<i>C. brenneri</i>	430	9.00E-09	0.666	74.00E+06	70.96E+04	02.84E+06	06.08E+06	12.16E+06	18.25E+06	74.00E+06
<i>C. remanei</i>	7662	9.00E-09	0.592	65.79E+06	63.09E+04	02.52E+06	05.41E+06	10.81E+06	16.22E+06	65.79E+06
<i>C. briggsae</i>	823	9.00E-09	0.571	63.40E+06	60.79E+04	02.43E+06	05.21E+06	10.42E+06	15.63E+06	63.40E+06
<i>C. sp. 5</i>	819	9.00E-09	0.481	53.49E+06	51.29E+04	02.05E+06	04.40E+06	08.79E+06	13.19E+06	53.49E+06
lineage	genes	mutation rate	ds' (90%)	divergence times based on 9th decile ds'						
				T (gen)	T (3.5d)	T (14d)	T (30d)	T (60d)	T (90d)	T (365d)
<i>C. japonica + internal branch</i>	354	9.00E-09	2.802	03.11E+08	02.99E+06	11.94E+06	25.59E+06	51.18E+06	76.76E+06	03.11E+08
<i>C. japonica</i>	308	9.00E-09	2.118	02.35E+08	02.26E+06	09.03E+06	19.34E+06	38.68E+06	58.02E+06	02.35E+08
<i>C. elegans</i>	356	9.00E-09	1.527	01.70E+08	01.63E+06	06.51E+06	13.94E+06	27.88E+06	41.82E+06	01.70E+08
<i>C. brenneri</i>	430	9.00E-09	1.543	01.71E+08	01.64E+06	06.58E+06	14.09E+06	28.19E+06	42.28E+06	01.71E+08
<i>C. remanei</i>	7662	9.00E-09	1.613	01.79E+08	01.72E+06	06.87E+06	14.73E+06	29.46E+06	44.19E+06	01.79E+08
<i>C. briggsae</i>	823	9.00E-09	1.207	01.34E+08	01.29E+06	05.14E+06	11.02E+06	22.04E+06	33.06E+06	01.34E+08
<i>C. sp. 5</i>	819	9.00E-09	1.189	01.32E+08	01.27E+06	05.07E+06	10.86E+06	21.71E+06	32.57E+06	01.32E+08
lineage	genes	mutation rate (+1 s.e.m.)	ds' (10%)	divergence times based on 1st decile ds' and mutation rate +1 s.e.m.						
				T (gen)	T (3.5d)	T (14d)	T (30d)	T (60d)	T (90d)	T (365d)
<i>C. japonica + internal branch</i>	354	9.6E-09	1.194	01.24E+08	01.19E+06	04.77E+06	10.22E+06	20.44E+06	30.66E+06	01.24E+08
<i>C. japonica</i>	308	9.6E-09	0.396	41.22E+06	39.52E+04	01.58E+06	03.39E+06	06.78E+06	10.16E+06	41.22E+06
<i>C. elegans</i>	356	9.6E-09	0.674	70.25E+06	67.36E+04	02.69E+06	05.77E+06	11.55E+06	17.32E+06	70.25E+06
<i>C. brenneri</i>	430	9.6E-09	0.666	69.38E+06	66.52E+04	02.66E+06	05.70E+06	11.40E+06	17.11E+06	69.38E+06
<i>C. remanei</i>	7662	9.6E-09	0.592	61.68E+06	59.14E+04	02.37E+06	05.07E+06	10.14E+06	15.21E+06	61.68E+06
<i>C. briggsae</i>	823	9.6E-09	0.571	59.44E+06	56.99E+04	02.28E+06	04.89E+06	09.77E+06	14.66E+06	59.44E+06
<i>C. sp. 5</i>	819	9.6E-09	0.481	50.15E+06	48.09E+04	01.92E+06	04.12E+06	08.24E+06	12.36E+06	50.15E+06
lineage	genes	mutation rate (-1 s.e.m.)	ds' (90%)	divergence times based on 1st decile ds' and mutation rate -1 s.e.m.						
				T (gen)	T (3.5d)	T (14d)	T (30d)	T (60d)	T (90d)	T (365d)
<i>C. japonica + internal branch</i>	354	8.4E-09	2.802	03.34E+08	03.20E+06	12.79E+06	27.42E+06	54.83E+06	82.25E+06	03.34E+08
<i>C. japonica</i>	308	8.4E-09	2.118	02.52E+08	02.42E+06	09.67E+06	20.72E+06	41.44E+06	62.17E+06	02.52E+08
<i>C. elegans</i>	356	8.4E-09	1.527	01.82E+08	01.74E+06	06.97E+06	14.94E+06	29.87E+06	44.81E+06	01.82E+08
<i>C. brenneri</i>	430	8.4E-09	1.543	01.84E+08	01.76E+06	07.05E+06	15.10E+06	30.20E+06	45.31E+06	01.84E+08
<i>C. remanei</i>	7662	8.4E-09	1.613	01.92E+08	01.84E+06	07.36E+06	15.78E+06	31.56E+06	47.34E+06	01.92E+08
<i>C. briggsae</i>	823	8.4E-09	1.207	01.44E+08	01.38E+06	05.51E+06	11.81E+06	23.62E+06	35.42E+06	01.44E+08
<i>C. sp. 5</i>	819	8.4E-09	1.189	01.42E+08	01.36E+06	05.43E+06	11.63E+06	23.26E+06	34.89E+06	01.42E+08

Supplementary table 2. Drosophila divergence time estimates using 1st and 9th dS deciles and mutation rates +/- 1 s.e.m.

lineage	genes	mutation rate	dS (median)	divergence times based on median dS			
				T (gen)	T (5 g/y)	T (10 g/y)	T (20 g/y)
<i>D. ananassae + internal branch</i>	7889	5.8E-09	1.3649	02.35E+08	47.07E+06	23.53E+06	11.77E+06
<i>D. ananassae</i>	7397	5.8E-09	0.6622	01.14E+08	22.83E+06	11.42E+06	05.71E+06
<i>D. erecta</i>	8088	5.8E-09	0.0935	16.12E+06	03.22E+06	01.61E+06	80.60E+04
<i>D. yakuba</i>	8088	5.8E-09	0.1098	18.93E+06	03.79E+06	01.89E+06	94.66E+04
<i>D. melanogaster</i>	8088	5.8E-09	0.0681	11.74E+06	02.35E+06	01.17E+06	58.71E+04
<i>D. sechellia</i>	8088	5.8E-09	0.0246	04.24E+06	84.83E+04	42.41E+04	21.21E+04
<i>D. simulans</i>	8088	5.8E-09	0.0206	03.55E+06	71.03E+04	35.52E+04	17.76E+04

  

lineage	genes	mutation rate	dS (10%)	divergence times based on 1st decile dS			
				T (gen)	T (5 g/y)	T (10 g/y)	T (20 g/y)
<i>D. ananassae + internal branch</i>	7889	5.8E-09	0.6368	01.10E+08	21.96E+06	10.98E+06	05.49E+06
<i>D. ananassae</i>	7397	5.8E-09	0.1804	31.10E+06	06.22E+06	03.11E+06	01.56E+06
<i>D. erecta</i>	8088	5.8E-09	0.0455	07.84E+06	01.57E+06	78.45E+04	39.22E+04
<i>D. yakuba</i>	8088	5.8E-09	0.0535	09.22E+06	01.84E+06	92.24E+04	46.12E+04
<i>D. melanogaster</i>	8088	5.8E-09	0.0352	06.07E+06	01.21E+06	60.69E+04	30.34E+04
<i>D. sechellia</i>	8088	5.8E-09	0.0063	01.09E+06	21.72E+04	10.86E+04	05.43E+04
<i>D. simulans</i>	8088	5.8E-09	0.0032	55.17E+04	11.03E+04	05.52E+04	02.76E+04

  

lineage	genes	mutation rate	dS (90%)	divergence times based on 9th decile dS			
				T (gen)	T (5 g/y)	T (10 g/y)	T (20 g/y)
<i>D. ananassae + internal branch</i>	7889	5.8E-09	2.5013	04.31E+08	86.25E+06	43.13E+06	21.56E+06
<i>D. ananassae</i>	7397	5.8E-09	1.7596	03.03E+08	60.68E+06	30.34E+06	15.17E+06
<i>D. erecta</i>	8088	5.8E-09	0.1537	26.50E+06	05.30E+06	02.65E+06	01.33E+06
<i>D. yakuba</i>	8088	5.8E-09	0.17481	30.14E+06	06.03E+06	03.01E+06	01.51E+06
<i>D. melanogaster</i>	8088	5.8E-09	0.113	19.48E+06	03.90E+06	01.95E+06	97.41E+04
<i>D. sechellia</i>	8088	5.8E-09	0.0503	08.67E+06	01.73E+06	86.72E+04	43.36E+04
<i>D. simulans</i>	8088	5.8E-09	0.0464	08.00E+06	01.60E+06	80.00E+04	40.00E+04

  

lineage	genes	mutation rate +1 s.e.m.	dS (10%)	divergence times based on 1st decile dS and mutation rate +1 s.e.m.			
				T (gen)	T (5 g/y)	T (10 g/y)	T (20 g/y)
<i>D. ananassae + internal branch</i>	7889	6.4E-09	0.6368	99.50E+06	19.90E+06	09.95E+06	04.98E+06
<i>D. ananassae</i>	7397	6.4E-09	0.1804	28.19E+06	05.64E+06	02.82E+06	01.41E+06
<i>D. erecta</i>	8088	6.4E-09	0.0455	07.11E+06	01.42E+06	71.09E+04	35.55E+04
<i>D. yakuba</i>	8088	6.4E-09	0.0535	08.36E+06	01.67E+06	83.59E+04	41.80E+04
<i>D. melanogaster</i>	8088	6.4E-09	0.0352	05.50E+06	01.10E+06	55.00E+04	27.50E+04
<i>D. sechellia</i>	8088	6.4E-09	0.0063	98.44E+04	19.69E+04	09.84E+04	04.92E+04
<i>D. simulans</i>	8088	6.4E-09	0.0032	50.00E+04	10.00E+04	05.00E+04	02.50E+04

  

lineage	genes	mutation rate -1 s.e.m.	dS (90%)	divergence times based on 1st decile dS and mutation rate +1 s.e.m.			
				T (gen)	T (5 g/y)	T (10 g/y)	T (20 g/y)
<i>D. ananassae + internal branch</i>	7889	5.2E-09	2.5013	04.81E+08	96.20E+06	48.10E+06	24.05E+06
<i>D. ananassae</i>	7397	5.2E-09	1.7596	03.38E+08	67.68E+06	33.84E+06	16.92E+06
<i>D. erecta</i>	8088	5.2E-09	0.1537	29.56E+06	05.91E+06	02.96E+06	01.48E+06
<i>D. yakuba</i>	8088	5.2E-09	0.17481	33.62E+06	06.72E+06	03.36E+06	01.68E+06
<i>D. melanogaster</i>	8088	5.2E-09	0.113	21.73E+06	04.35E+06	02.17E+06	01.09E+06
<i>D. sechellia</i>	8088	5.2E-09	0.0503	09.67E+06	01.93E+06	96.73E+04	48.37E+04
<i>D. simulans</i>	8088	5.2E-09	0.0464	08.92E+06	01.78E+06	89.23E+04	44.62E+04