

Supplementary Material

Supplementary Table 1. Summary of survival statistics.

Genotype	Sex	Diet	N (flies)			Median lifespan (d)			Fisher's exact test	Log-rank p
			Yeast extract (w/v)	Vehicle	RU486*	Vehicle	RU486	Difference		
<i>Act5C-GS/UAS-GFP</i> (Figure 1)	M	0.1%	59	60	77	66	-14%	1.1 × 10⁻⁵	3.9 × 10⁻⁹	
	M	0.5%	59	56	70	63	-10%	0.016	0.054	
	M	5%	59	58	49	49	0%	0.85	0.59	
<i>Act5C-GS/+</i>	M	0.1%	60	60	56	52	-7%	0.010	0.013	
	M	0.5%	60	59	52	49	-6%	0.028	0.0010	
	M	5%	60	60	45	45	0%	0.69	0.47	
Canton-S	M	0.1%	60	58	63	56	-11%	5.5 × 10⁻⁶	5.7 × 10⁻⁷	
	M	0.5%	60	60	56	52	-7%	1.0	0.57	
	M	5%	60	60	45	49	9%	0.00020	5.6 × 10⁻⁶	
Dahomey	M	0.1%	58	61	38	31	-18%	1.2 × 10⁻¹¹	<10 ⁻¹⁰	
	M	0.5%	59	60	42	38	-10%	0.0042	0.0021	
	M	5%	59	60	31	35	13%	1.0	0.46	
Dahomey (Figure 2)	Trial 2	M	0.1%	60	59	45	38	-16%	0.0013	0.00030
	Trial 3	M	0.1%	61	59	49	39	-20%	3.5 × 10⁻⁸	1.4 × 10⁻⁶
	Trial 4	M	0.1%	60	58	42	35	-17%	1.5 × 10⁻⁶	9.1 × 10⁻⁶
Axenic Dahomey	M	0.1%	60	60	31	24	-23%	2.1 × 10⁻⁸	<10 ⁻¹⁰	
	M	0.5%	60	57	45	42	-7%	1.0	0.25	
	M	5%	60	59	38	42	11%	0.0059	0.039	
Dahomey (Figure 3)	F	0.1%	59	59 [†]	63	56	-11%	0.097	0.079	
	F	0.1%		61 [‡]		42	-33%	0.00020	0.00040	
	F	5%	61	61 [†]	63	63	0%	0.72	0.39	
Canton-S	F	5%		58 [‡]		66	5%	0.20	0.40	
	F	0.1%	62	58 [†]	63	59	-6%	1.0	0.36	
	F	0.1%		59 [‡]		59	-6%	0.0032	0.00020	
	F	5%	59	61 [†]	49	49	0%	0.26	0.16	
	F	5%		58 [‡]		49	0%	0.0029	0.021	
	M	0.1%	55	58 [†]	52	45	-13%	0.023	0.0092	
Dahomey (Supp. Figure 2)	M	0.1%		58 [‡]		31	-40%	3.5 × 10⁻¹¹	<10 ⁻¹⁰	
	M	5%	57	60 [‡]	38	38	0%	1.0	0.50	

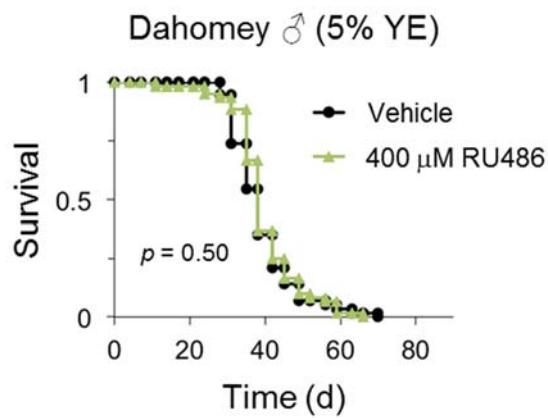
*Unless otherwise noted, RU486 was supplemented at 200 µM.

[†]100 µM RU486.

[‡]400 µM RU486.



Supplementary Figure 1. Representative GFP fluorescence in *Act5C-GS/UAS-GFP* flies fed food supplemented with 200 μ M RU486 (left) or vehicle control (right).



Supplementary Figure 2. Survival of Dahomey males on 5% YE diet supplemented with 400 μ M RU486 or vehicle. Log-rank p value between survival curves is shown. N = 57 (vehicle) or 60 (RU486) flies per condition. See Supplementary Table 1 for statistics. YE, yeast extract.