

Supporting Information

Voronin et al. 10.1073/pnas.1203519109

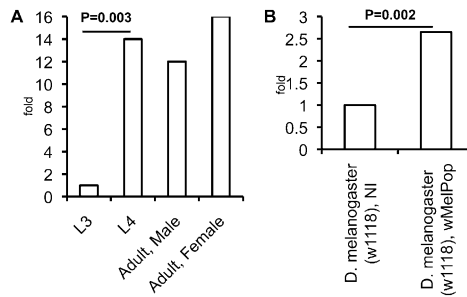


Fig. S1. *Atg8a* gene expression in *Brugia malayi* and *Drosophila melanogaster* (w1118). (A) Expression level of *atg8a* in the mosquito vector-derived third-stage larvae (L3), fourth-stage larvae (L4), and adult females. (B) Increased expression of *atg8a* in *D. melanogaster* (w1118) naturally infected with wMelPop compared with noninfected (NI) flies.

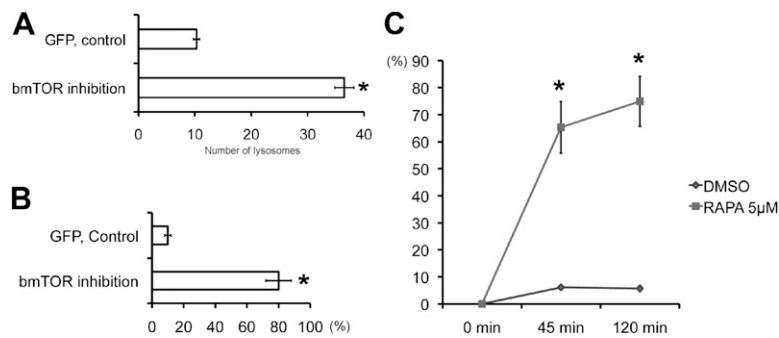


Fig. S2. Induction of lysosome production and apoptosis in adult female and mosquito cells after treatment with autophagy inducers. (A) Number of lysosomes per section of the lateral chord of *B. malayi* treated with inhibitors of *B. malayi* target of rapamycin (bmTOR) (siRNA or rapamycin) and controls. (B) Percent of apoptotic-like nuclei in the developing embryos of *B. malayi* after treatment and in the control samples. (C) Percent of lysosome-positive C6/36 (wAlbB) cells after treatment with rapamycin (RAPA) and DMSO (control).

Table S1. Primers used in the work

Primers	5' sequence
For siRNA construction (cDNA)	
T7-bmATG8a-F	<u>TAATACGACTCACTATAGGG</u> AAAAATCCATTCGAGAAGC
T7-bmATG8a-R	<u>TAATACGACTCACTATAGGG</u> TAGACGCTTTCATCGCTGT
T7-bmTOR-F	<u>TAATACGACTCACTATAGGG</u> GATCCAAGTGCTCCATTGGT
T7-bmTOR-R	<u>TAATACGACTCACTATAGGG</u> TGTAATTGGTACGCCGATCA
T7-bmATG1-F	<u>TAATACGACTCACTATAGGG</u> CATTCCGTGGTTCACCTCTT
T7-bmATG1-R	<u>TAATACGACTCACTATAGGG</u> GCTGAGGCCAATCATTCCACT
T7-dTOR-F	<u>TAATACGACTCACTATAGGG</u> GAGCATCACAAAGGAGTTGCC
T7-dTOR-R	<u>TAATACGACTCACTATAGGG</u> CATTGCGACAATGTTTTGG
T7-dATG1-F	<u>TAATACGACTCACTATAGGG</u> GAGGACGAGAACACGGTGT
T7-dATG1-R	<u>TAATACGACTCACTATAGGG</u> AAAGTGGGCAATTTGGTAAGC
T7-dATG8a-F	<u>TAATACGACTCACTATAGGG</u> GACAACGTCATTCCACCAACA
T7-dATG8a-R	<u>TAATACGACTCACTATAGGG</u> GCCCAGAAAGGGTGTGAATA
T7-dGFP-F	<u>TAATACGACTCACTATAGGG</u> GACGTAAACGGCCACAAGTTC
T7-dGFP-R	<u>TAATACGACTCACTATAGGG</u> TGCTCAGGTAGTGGTTGTGC
For gene expression (cDNA)	
bmATG8a-F	GAAAAATCCATTCGAGAAGC
bmATG8a-R	GTAGACGCTTTCATCGCTGT
dATG8a-F	GACAACGTCATTCCACCAACA
dATG8a-R	GCCCAGAAAGGGTGTGAATA
For quantitative PCR (gene copies, gDNA)	
dRP49-F	TACAGGCCCAAGATCGTGAA
dRP49-R	TCTCCTTGCGCTTCTTGGA

The T7 promoter is underlined. Bm, *B. malayi*; d, *D. melanogaster*.