

## Supplemental Information

## Steroid Hormone Inactivation Is Required

during the Juvenile-Adult Transition in *Drosophila*

Kim F. Rewitz, Naoki Yamanaka, and Michael B. O'Connor

Table S1. Overexpression of *UAS-Cyp18a1* using different Gal4 drivers, related to figure 1.

Gal4 driver	Expression pattern	n	Lethal phase (% dead animals)		
			Embryo	Larva	Pupa
<i>da-Gal4</i>	Ubiquitous (strong)	200	100		
<i>arm-Gal4</i>	Ubiquitous (weak)	100	100		
<i>ppl-Gal4</i>	Fat body, gut, salivary glands	50	n.d.	100	
<i>CG-Gal4</i>	Fat body	50	n.d.	46	54
<i>elav-Gal4</i>	Post-mitotic neurons	140	99	1	
<i>Y45-Gal4</i>	Epidermis, gut, salivary glands	100	100		

Transgenic flies carrying *UAS-Cyp18a1* were crossed to flies with different *Gal4* insertions to overexpress Cyp18a1.

Table S2. Pupal lethality of *Cyp18a1* RNAi using different Gal4 drivers, related to figure 2.

Gal4 driver	Expression pattern	n	% eclosed adults
		(pupae)	
<i>αTub84B-Gal4</i>	Ubiquitous (strong)	50	0
<i>Act5C-Gal4</i>	Ubiquitous (strong)	50	6
<i>arm-Gal4</i>	Ubiquitous (weak)	50	68

Transgenic flies carrying *UAS-Cyp18a1-RNAi* were crossed to flies with different *Gal4* insertions to knock down expression of *Cyp18a1*.

## Supplemental Experimental Procedures

**Table S3. Primers used for quantitative PCR**

Fwd:Q $\beta$ FTZ-F1      AATCAGCAGCACCACAGCA  
Rev:Q $\beta$ FTZ-F1      TTGGCATTGTTGGCGATATT  
(Detects only the  *$\beta$ FTZ-F1* isoform)

Fwd:QE74              GCCGGACATGAACTACGAGA  
Rev:QE74              CTTGGGCACATCCACGAAC  
(Detects both the *E74A* and *E74B* isoforms)

Fwd:QE75A            ACCACAGCACCACCCATTT  
Rev:QE75A            TGTTTGGCGGTAGTTTCAGG  
(Detects only the *E75A* isoform)

Fwd:QE75B            CAACAGCAACAACCCAGA  
Rev:QE75B            CAGATCGGCACATGGCTTT  
(Detects only the *E75B* isoform)

Fwd:QBr                CTCAACACGCACACCCAAT  
Rev:QBr                GCTGAAGAGGGTTCGAGGAG  
(Detects all *br* isoforms)

Fwd:QE $c$ R              TGCGAAGAAGAGCAAGAAGG  
Rev:QE $c$ R              CAGGTGAGGGCGTTGTAGTG  
(Detects all *EcR* isoforms)

Fwd:QDHR3            TGGACCGTGTTAATCGCAAC  
Rev:QDHR3            ACCTCGTCCTCGACCTTCTC  
(Detects all *DHR3* isoforms)

Fwd:QBlimp1          GCGAACAGGAAATGACCAGA  
Rev:QBlimp1          GGCTCCCAGATAAGCAGCA

Fwd:QCYP18          TATTCATGGGCAGCGAGAAG  
Rev:QCYP18          CCCAGTCGTGTGGAGAACA