Title: The steroid hormone ecdysone regulates growth rate in response to oxygen availability

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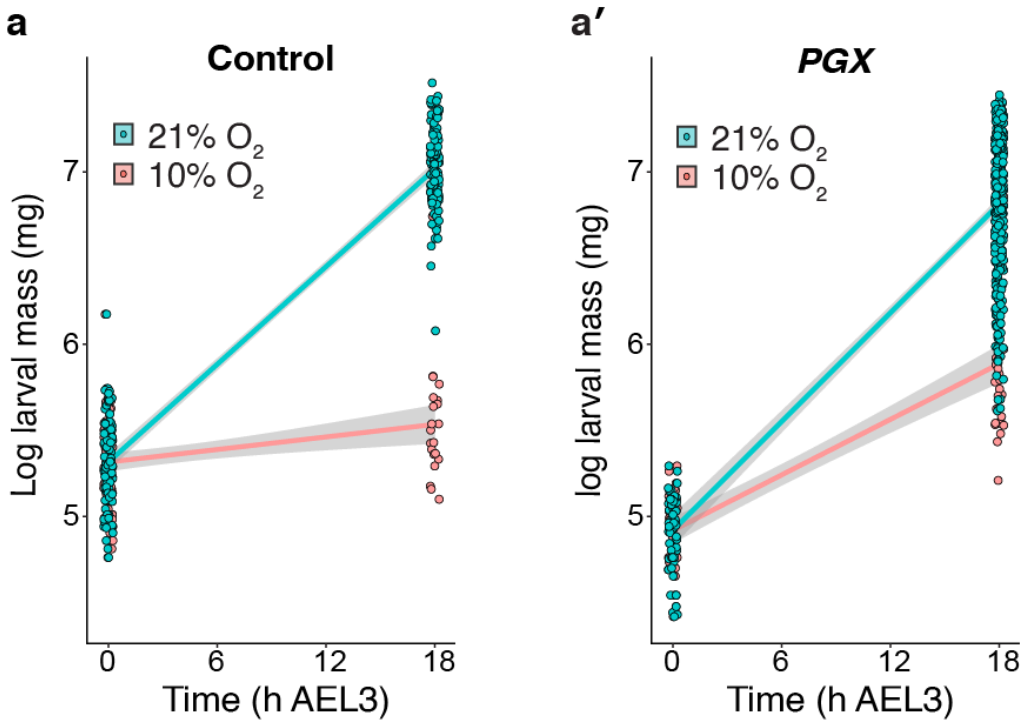
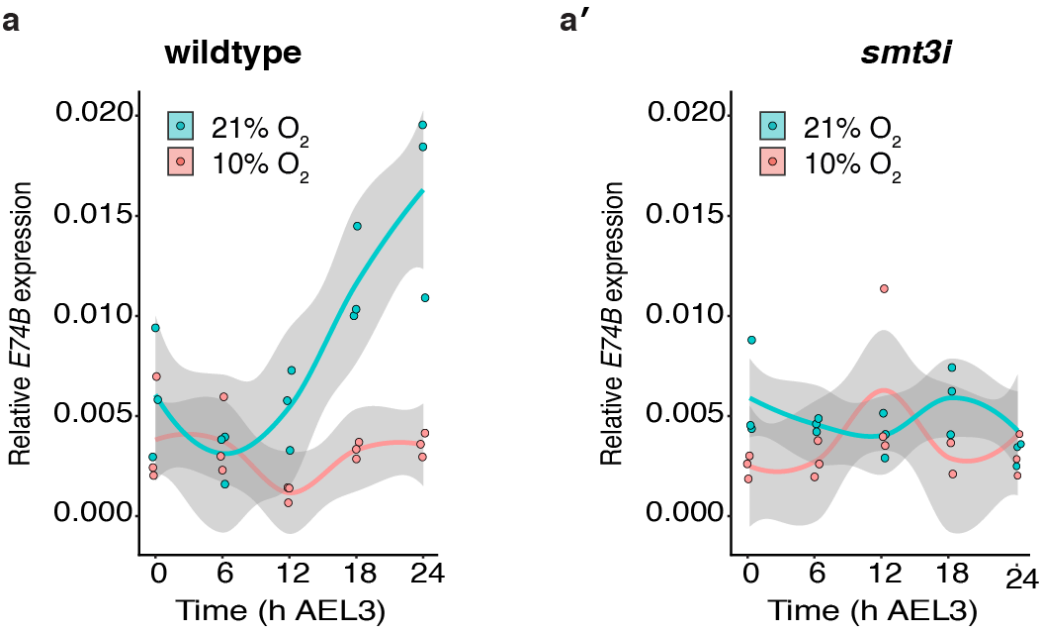
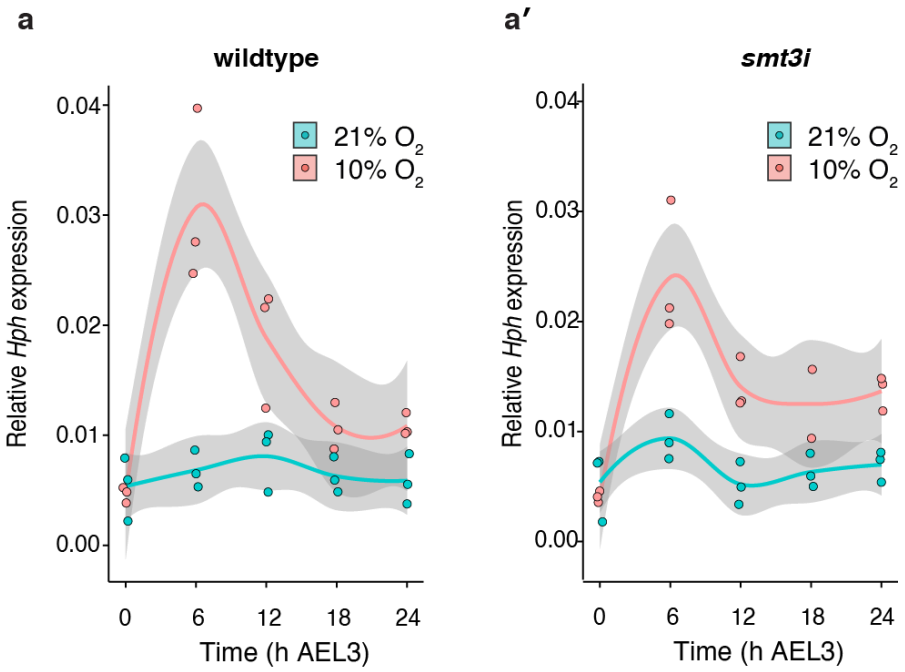
Supplementary Figures:



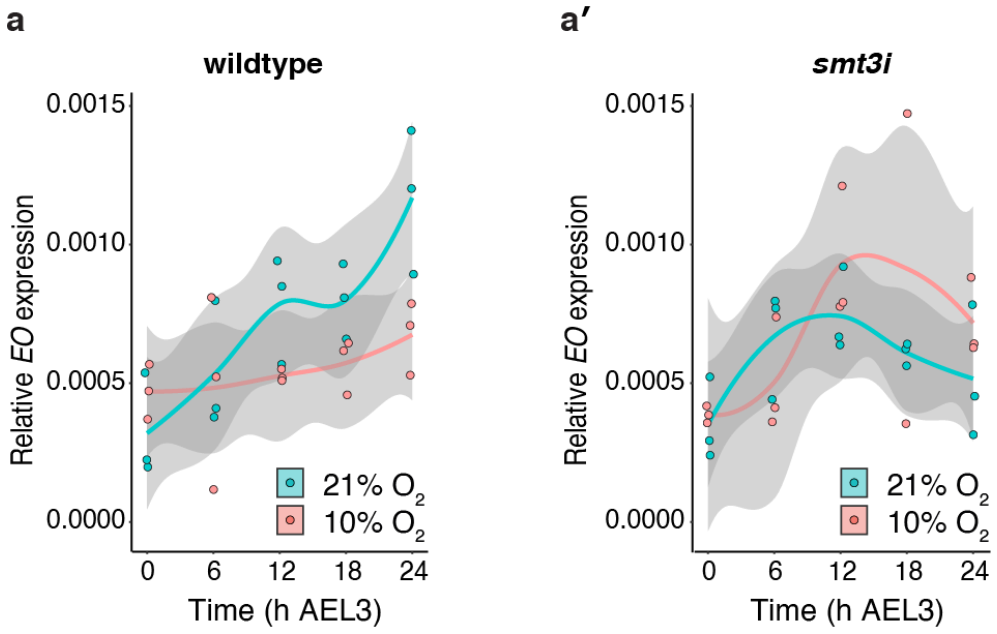
Supplementary Figure 1: Ablation of the PG (site of ecdysone production) alleviates negative effects of hypoxia on growth. (**a**) 3rd instar larval weight in log-mass over 18 hours in wildtype flies and (**a'**) *PGX = phm>grim;tubGAL80^{TS}* flies (GLM, $P_{time*genotype*oxygen}$ <0.0001).



Supplementary Figure 2: *E74B* mRNA expression. (**a**) Transcript levels of *E74B* over 24 hours after L3 eclosion in control larvae were determined with qPCR, normalized to RP49 mRNA. (**a'**) Transcript levels of *E74B* in *smt3i* larvae. Grey bands are 95% confidence limits around the mean.



Supplementary Figure 3: *Hph* mRNA expression. (**a**) Transcript levels of *Hph* over 24 hours after L3 eclosion in control larvae were determined with qPCR, normalized to RP49 mRNA. (**a'**) Transcript levels of *Hph* in *smt3i* larvae. Grey bands are 95% confidence limits around the mean.



Supplementary Figure 4: *EO* mRNA expression. (**a**) Transcript levels of *EO* over 24 hours after L3 eclosion in control larvae were determined with qPCR, normalized to RP49 mRNA. (**a'**) Transcript levels of *EO* in *smt3i* larvae. Grey bands are 95% confidence limits around the mean.