

1 **Supplementary Information: ‘Developmental stage-specific microbiota profile of a**  
2 **polyphagous fly’**

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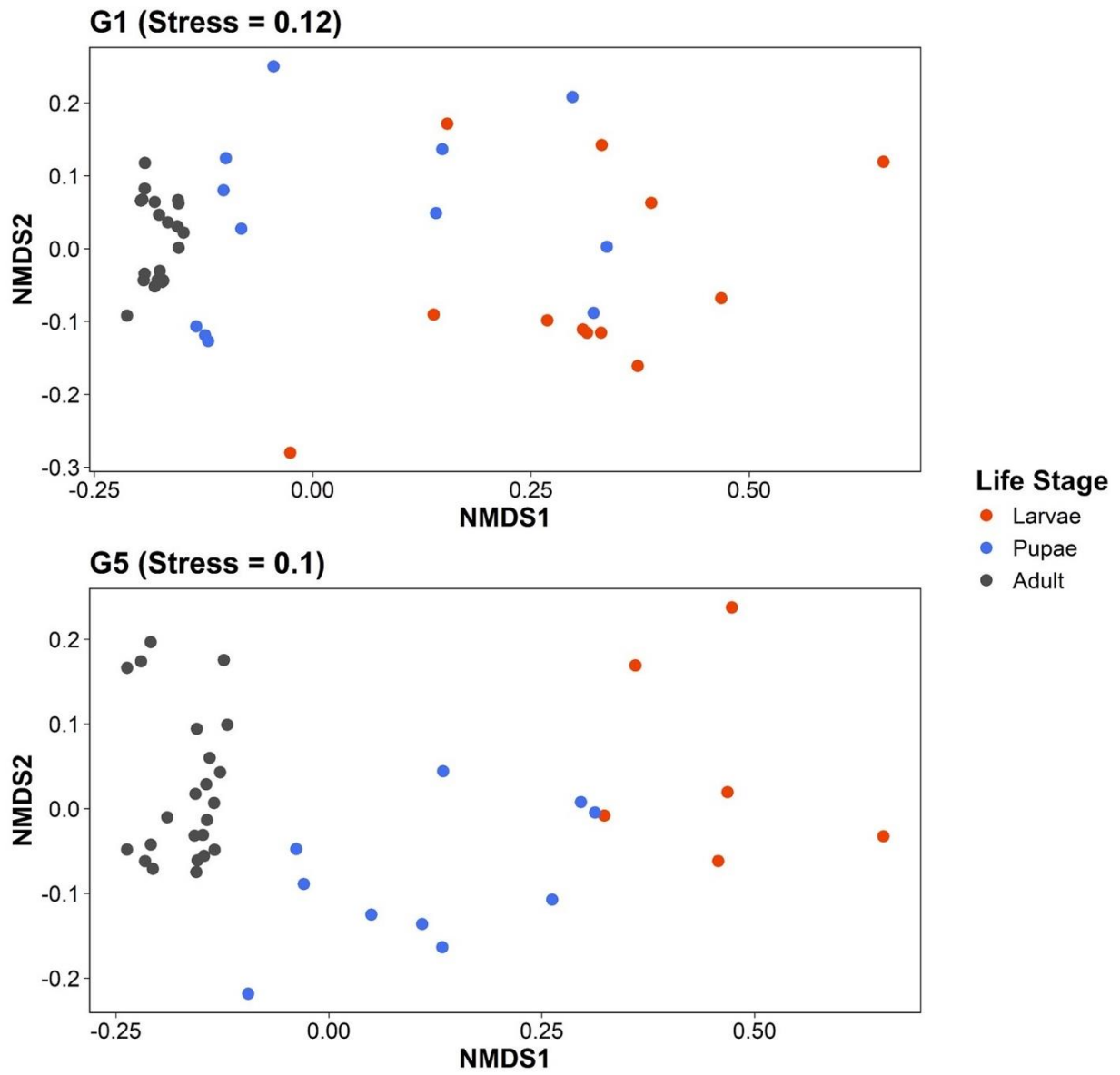
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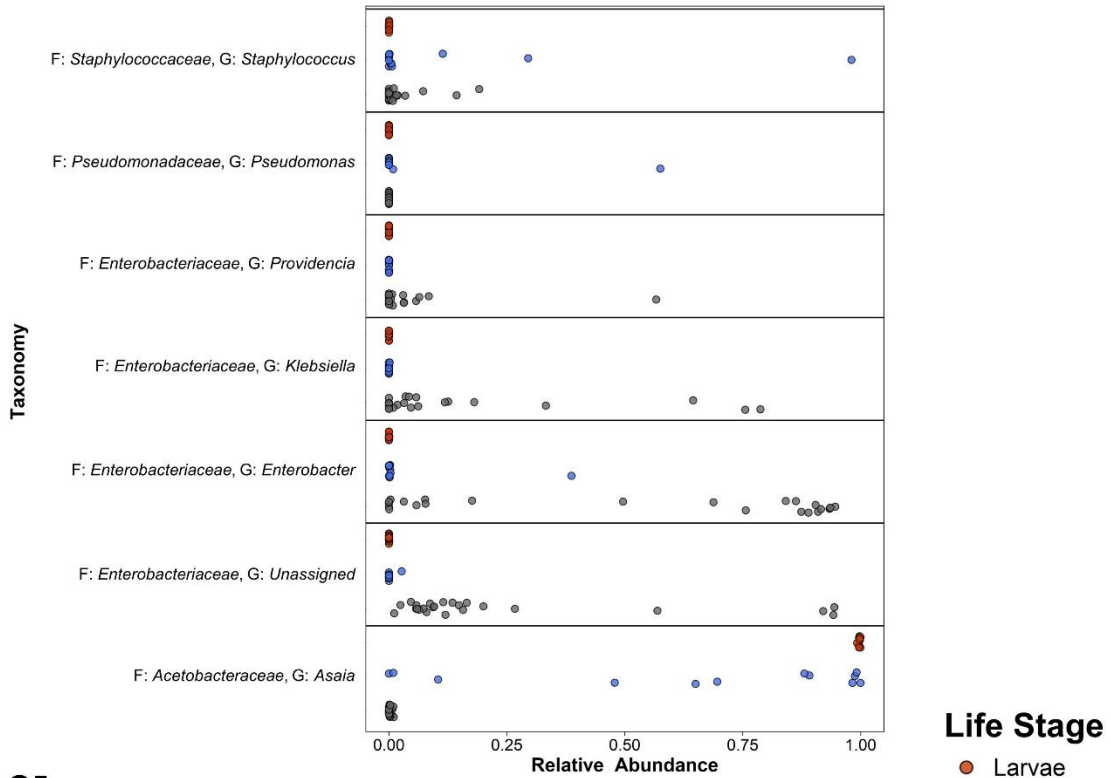
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27 **Supplementary Figure 1**

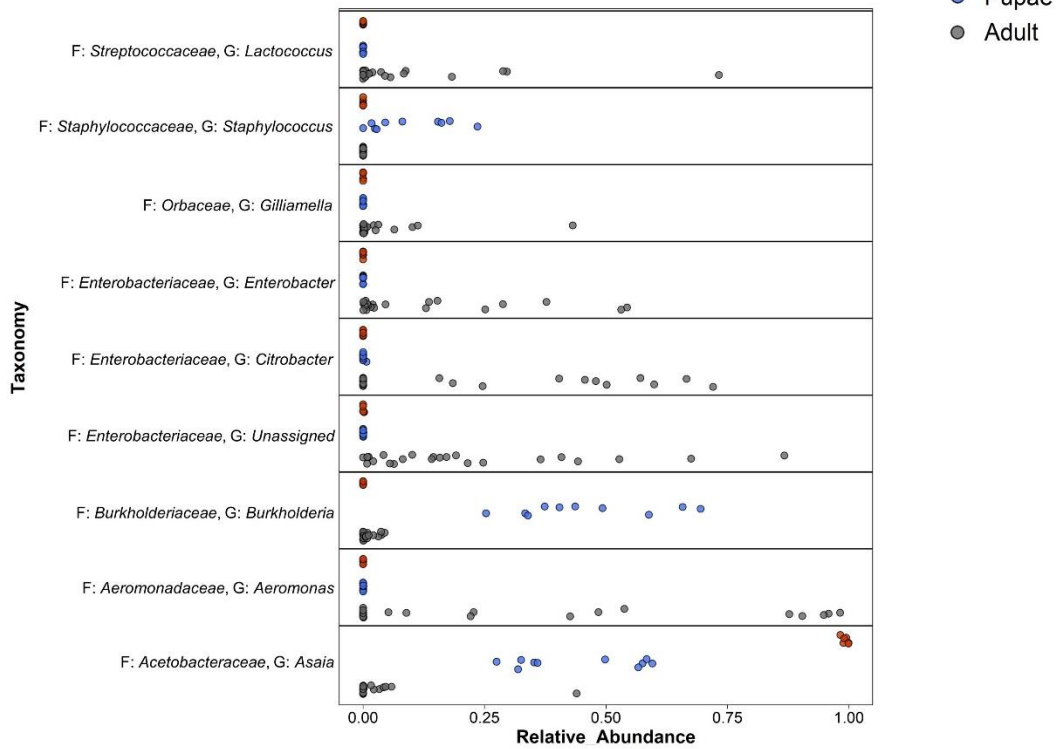
28 Microbial community composition of larvae, pupae, and adult samples for G1 and G5. Non-metric  
29 multidimensional scaling plot of sample clustering based upon a Bray-Curtis dissimilarity matrix.

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G1



G5



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32 **Supplementary Figure 2**

33 The relative abundances of the OTUs from the larvae, pupae, and adult samples from G1 and G5 that  
34 were significantly ( $p < 0.05$ ) differentially abundant between treatments.

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37 **Supplementary Table 1. Carrot-based diet recipe.**

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	1kg preparation	Source
Carrot (dehydrated diced) (g)	280	H.J. Langdon, Australia
Torula yeast (g)	89.55	H.J. Langdon, Australia
Citric acid (g)	13.43	Sigma Aldrich®
Sodium Benzoate (g)	3.72	Sigma Aldrich®
water (ml)	1000	MilliQ water

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