**Supplementary Information**



Figure S1. The relationship between carcass weight and average larval mass (a) and larval density (b) on lab and wild carcasses.

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Figure S2. The relationship between nutrient content, measured as protein (a,b) and fat (c,d), and individual larval mass. The dataset in (a) and (c) combines lab and wild carcasses, whereas that in (b) and (d) only contains wild carcasses.



Figure S3. The relationship between carcass weight and brood mass on lab and wild carcasses with two observations on large wild carcasses removed.