

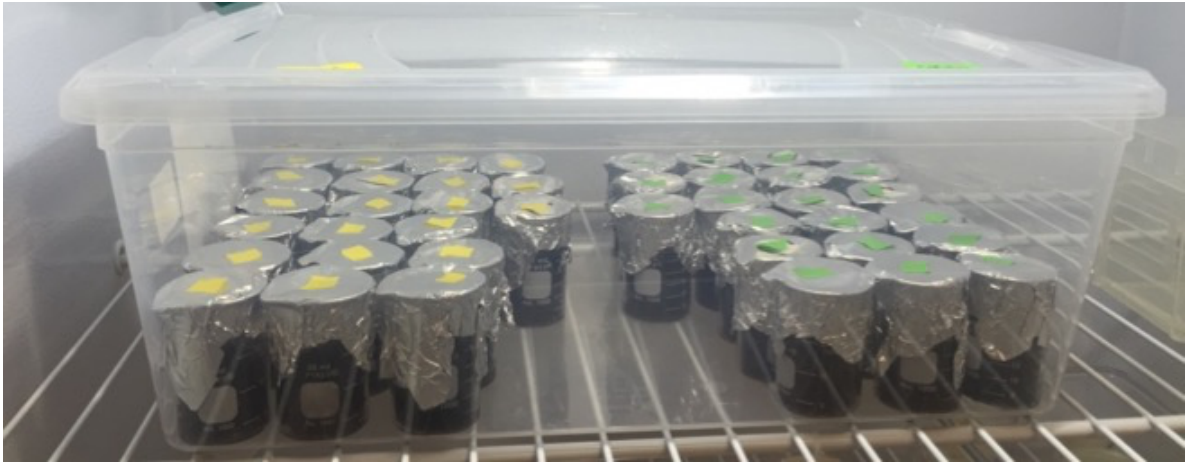
**Table S1. Complex soil microbiotas accelerate host development.**

Experiment	Time to 50% adults (hrs) <i>E. coli</i> <sup>a</sup>	Time to 50% adults (hrs) native microbiota <sup>b</sup>	Difference (hrs) <sup>d</sup>	<sup>c</sup> <i>P</i> -value
1	40.8	34.4	6.4	<0.001
2	39.8	38.5	1.3	0.028
3	43.8	37.4	6.4	0.003

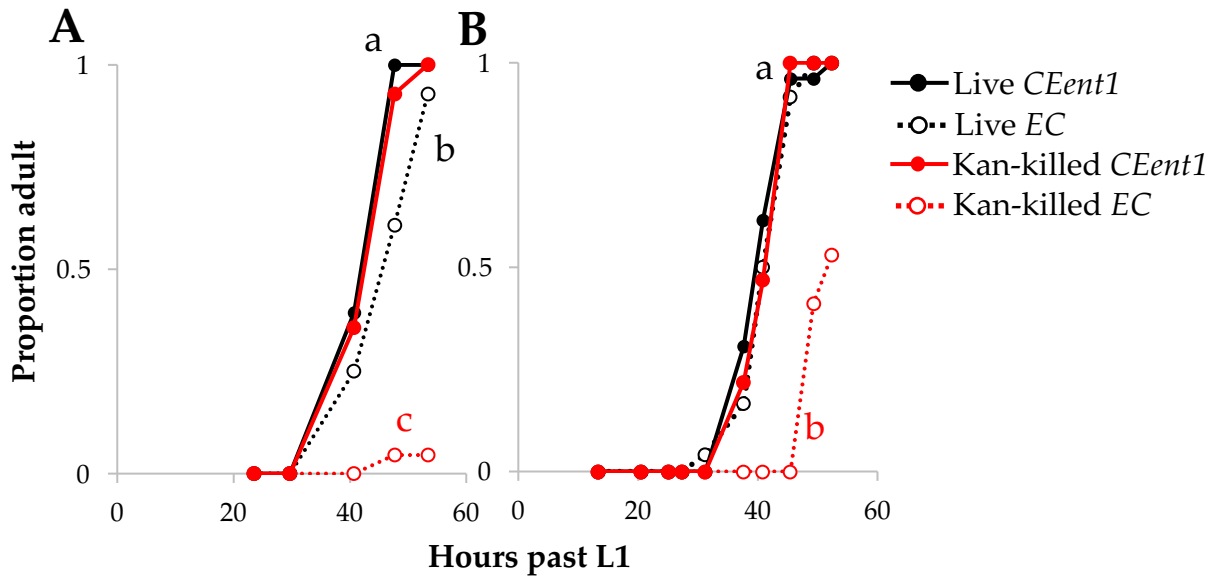
<sup>a,b</sup> Worms were raised in compost microcosms, or on autoclaved microcosms supplemented with *E. coli* alone (20°C).

<sup>c</sup> *P*-values designate statistical significance between development curves (binomial logistic regression analyses).

<sup>d</sup> On average, worm populations reached 50% adult 4.8 hours earlier when raised on complex microbiotas. Experiment 1 data previously shown (Figure 1C)



**Figure S1. Experimental microcosms in 20 mL glass vials.**



**Figure S2. Kanamycin treatment of *E. coli* and *Enterobacter hormaechei* *CEent1* differentially affects *C. elegans* development.** Development rate of wildtype worms raised on designated bacterial strains in two additional experiments (A, B) to the one presented in Fig. 1 (20 °C). Letters adjacent to curves indicate statistically distinct classes (Kaplan-Meier analyses, post-hoc p-value < 0.002).