University of Guam Coconut Rhinoceros Beetle Biological Control Project
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https://github.com/aubreymoore/rearing3

Bioassay Report: MALBperOS

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https://github.com/aubreymoore/rearing3/raw/master/bioassay-MALBperOS.pdf

Contents

1 Mortality

Table 1: Mortality summary.

	bioassay_treatment	ntotal	ndead	mortality	adjusted_mortality	significance
0	control	4	3	0.75	0.0	1.0
1	heat-inactivated	5	4	0.80	0.2	1.0
2	virus	5	3	0.60	-0.6	1.0
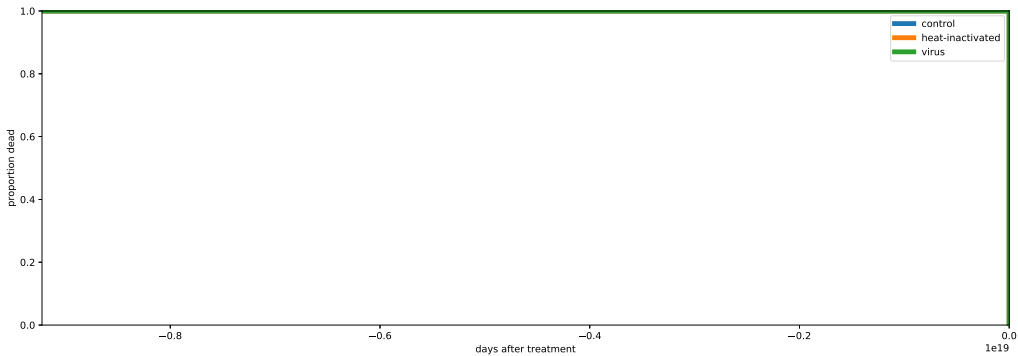
Table 2: Pairwise differences among mortality curves.

		test_statistic	p
control	heat-inactivated	3.179395	0.074572
	virus	4.737705	0.029508
heat-inactivated	virus	0.333797	0.563432

2 Change in Mass
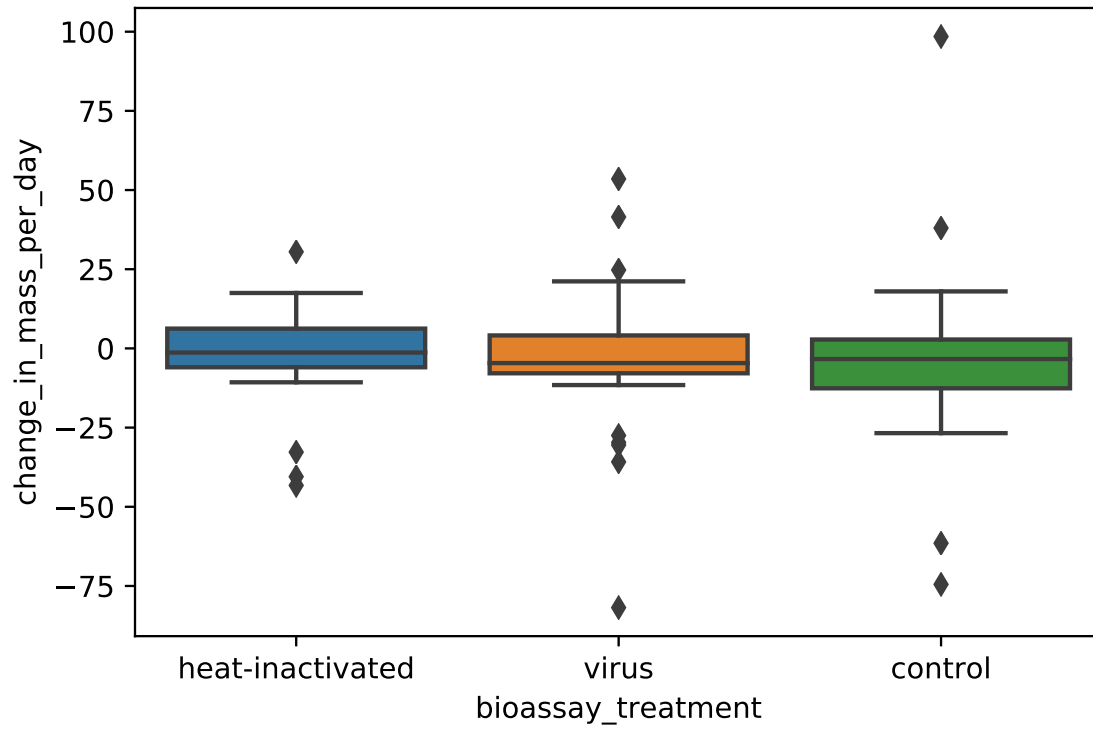
Table 3: Results of pairwise significance tests for differences in change in mass.

	control	heat-inactivated	virus
control	-1.0	1.0	1.0
heat-inactivated	1.0	-1.0	1.0
virus	1.0	1.0	-1.0

3 Post Mortem Images

3.1 heat-inactivated

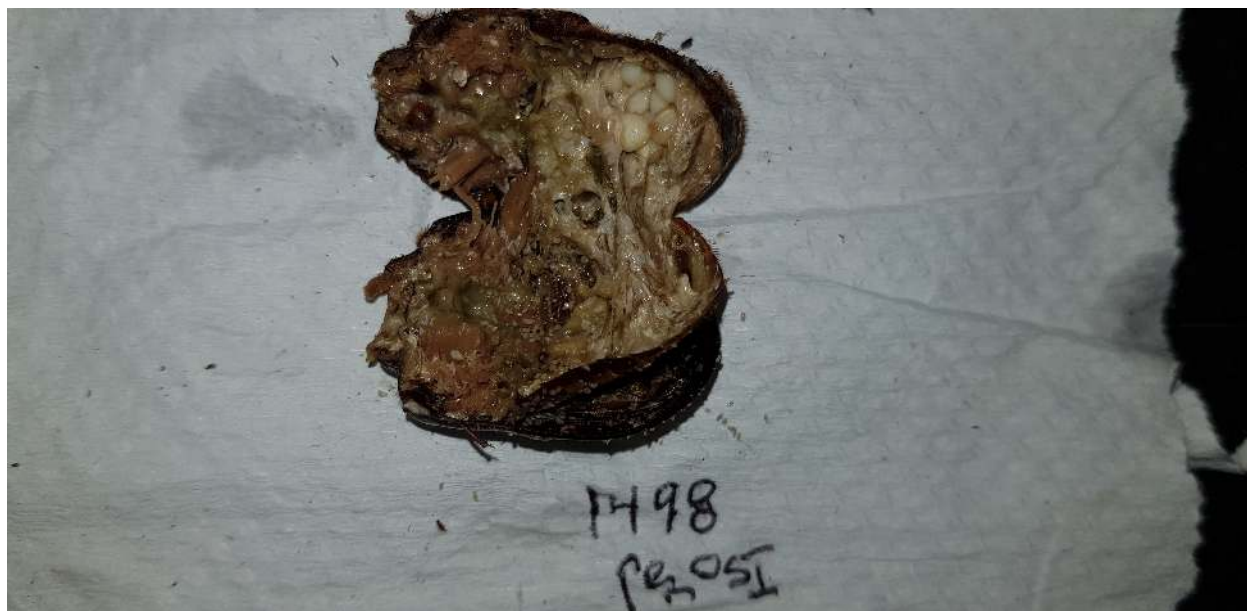Figure 1: Bioassay: MALBperOS-1; Treatment: heat-inactivated; Beetle ID: 1478

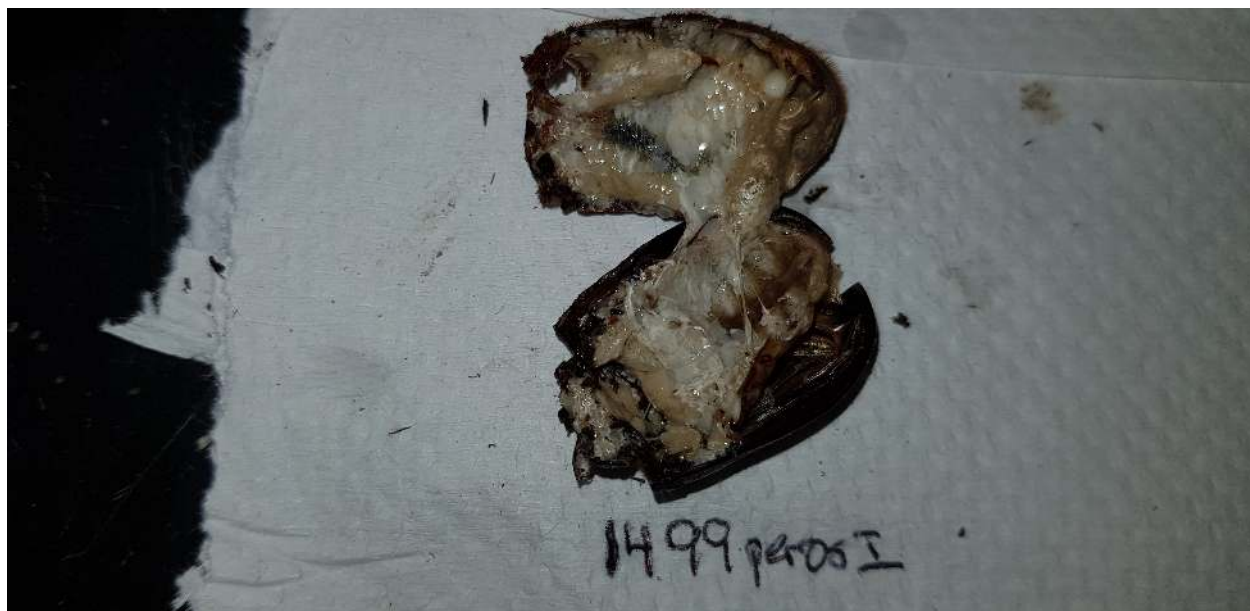Figure 2: Bioassay: MALBperOS-1; Treatment: heat-inactivated; Beetle ID: 1498

Figure 3: Bioassay: MALBperOS-1; Treatment: heat-inactivated; Beetle ID: 1499
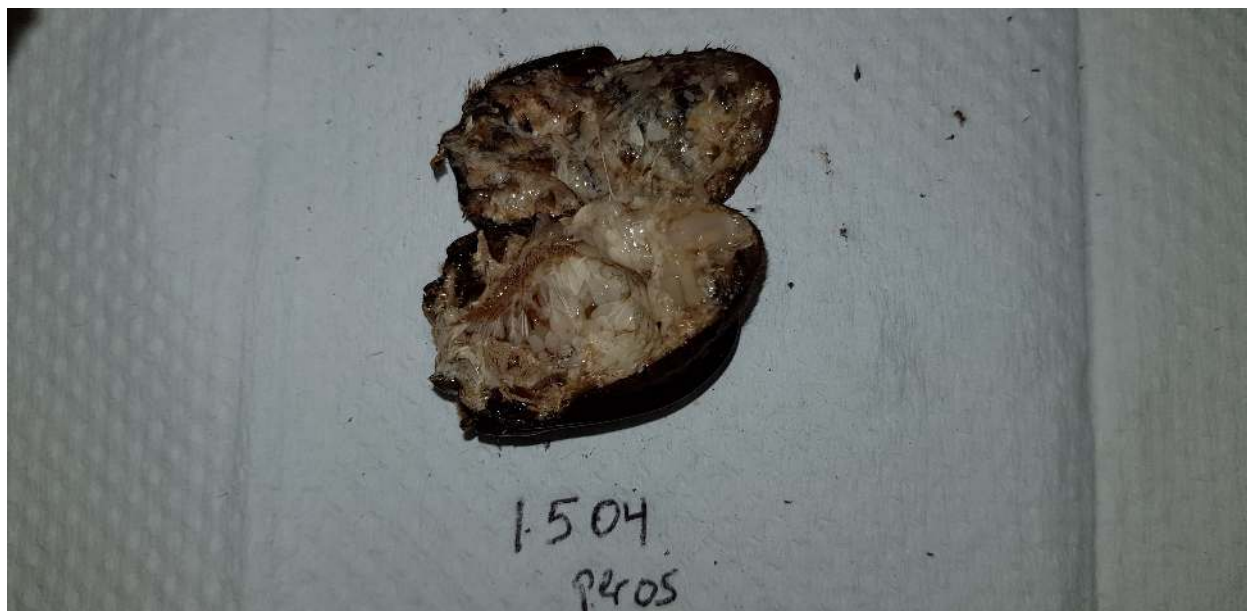
Figure 4: Bioassay: MALBperOS-1; Treatment: heat-inactivated; Beetle ID: 1504

Figure 5: Bioassay: MALBperOS-1; Treatment: heat-inactivated; Beetle ID: 1505

3.2 control

Figure 6: Bioassay: MALBperOS-1; Treatment: control; Beetle ID: 1495

Figure 7: Bioassay: MALBperOS-1; Treatment: control; Beetle ID: 1508

3.3 virus

Figure 8: Bioassay: MALBperOS-1; Treatment: virus; Beetle ID: 1501

Figure 9: Bioassay: MALBperOS-1; Treatment: virus; Beetle ID: 1503

Figure 10: Bioassay: MALBperOS-1; Treatment: virus; Beetle ID: 1506

Figure 11: Bioassay: MALBperOS-1; Treatment: virus; Beetle ID: 1509