



University of Guam Coconut Rhinoceros Beetle Biological Control Project
Generated by bioassay-report-generator.ipynb v.2019-10-28
<https://github.com/aubreymoore/rearing3>

Bioassay Report: V23BperOS

Aubrey Moore and James Grasela
University of Guam Coconut Rhinoceros Beetle Biocontrol Project
October 28, 2019

<https://github.com/aubreymoore/rearing3/raw/master/bioassay-V23BperOS.pdf>

Contents

1 Summary	2
2 Mortality	3
3 Change in Mass	4
4 Post Mortem Images	5
4.1 control	5
4.2 heat inactivated	9
4.3 virus	11

1 Summary

Summary not available for "V23BperOS"

2 Mortality

Table 1: Mortality summary.

	bioassay_treatment	ntotal	ndead	mortality	adjusted_mortality	significance
0	control	12	4	0.333333	0.0	1.000000
1	heat inactivated	5	2	0.400000	0.1	1.000000
2	virus	10	6	0.600000	0.4	0.391284

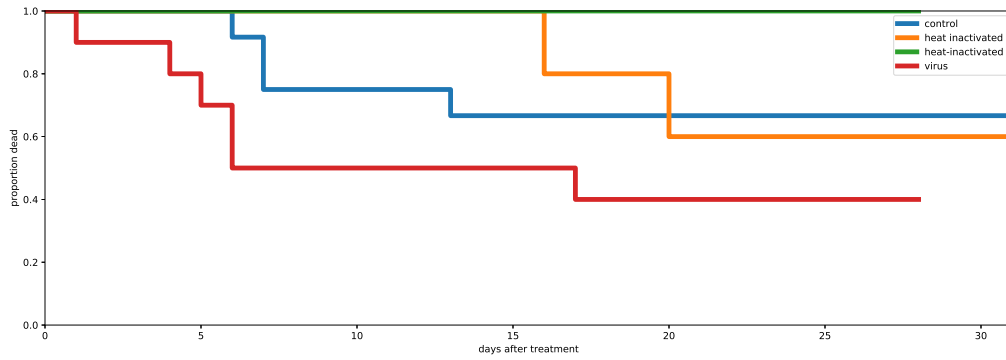


Table 2: Pairwise differences among mortality curves.

		test_statistic	p
control	heat inactivated	0.000026	0.995943
	heat-inactivated	1.943154	0.163327
	virus	2.269337	0.131956
heat inactivated	heat-inactivated	2.242236	0.134287
	virus	0.974923	0.323455
heat-inactivated	virus	4.201991	0.040377

3 Change in Mass

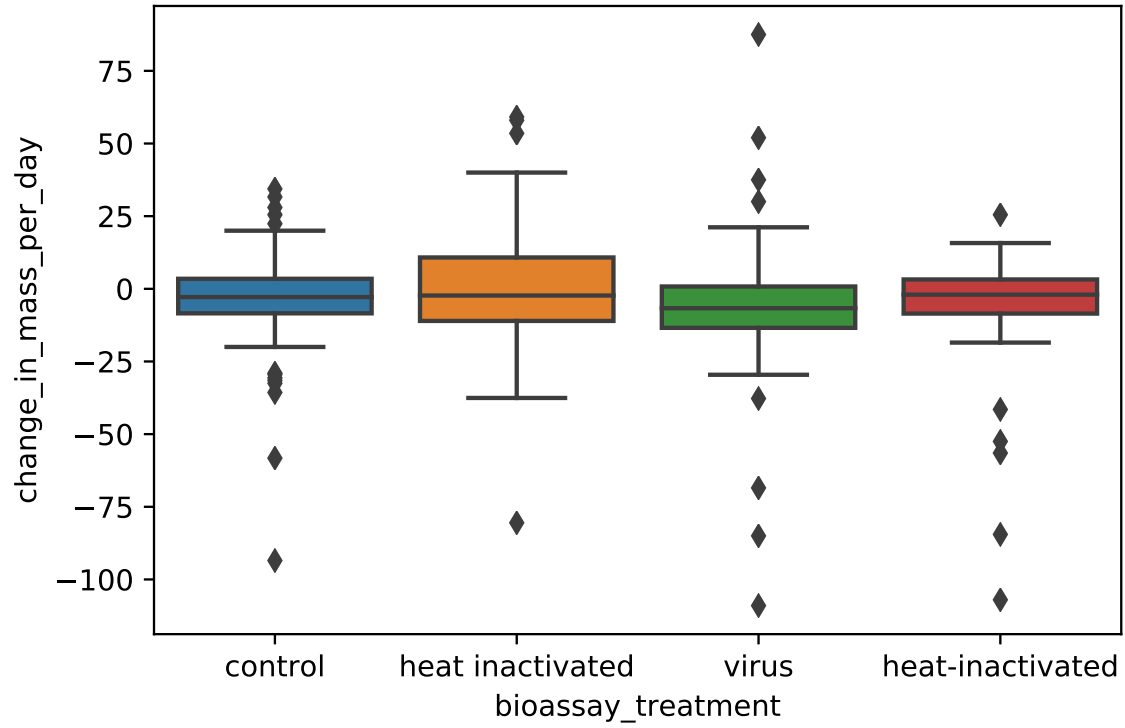


Table 3: Results of pairwise significance tests for differences in change in mass.

	control	heat inactivated	heat-inactivated	virus
control	-1.000000	1.000000	1.000000	0.560673
heat inactivated	1.000000	-1.000000	1.000000	0.259404
heat-inactivated	1.000000	1.000000	-1.000000	0.812923
virus	0.560673	0.259404	0.812923	-1.000000

4 Post Mortem Images

4.1 control

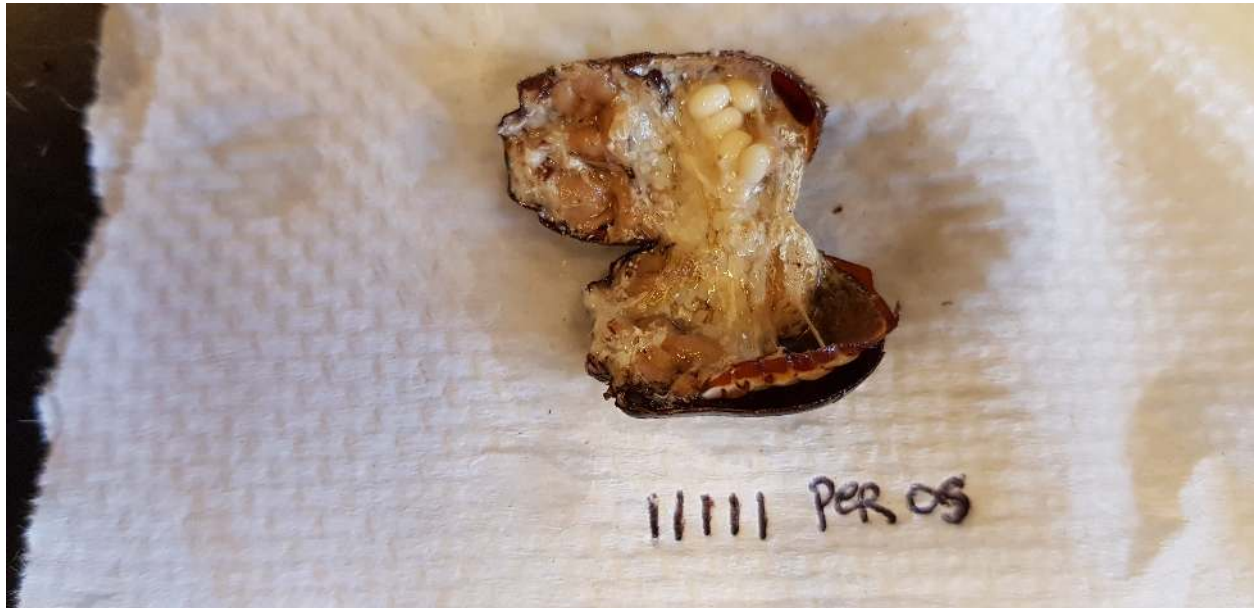


Figure 1: Bioassay: V23BperOS-1; Treatment: control; Beetle ID: 1394



Figure 2: Bioassay: V23BperOS-1; Treatment: control; Beetle ID: 1395



Figure 3: Bioassay: V23BperOS-1; Treatment: control; Beetle ID: 1397



Figure 4: Bioassay: V23BperOS-1; Treatment: control; Beetle ID: 1431

4.2 heat inactivated



Figure 5: Bioassay: V23BperOS-1; Treatment: heat inactivated; Beetle ID: 1402



Figure 6: Bioassay: V23BperOS-1; Treatment: heat inactivated; Beetle ID: 1432

4.3 virus



Figure 7: Bioassay: V23BperOS-1; Treatment: virus; Beetle ID: 1403



Figure 8: Bioassay: V23BperOS-1; Treatment: virus; Beetle ID: 1404



Figure 9: Bioassay: V23BperOS-1; Treatment: virus; Beetle ID: 1405



Figure 10: Bioassay: V23BperOS-1; Treatment: virus; Beetle ID: 1406



Figure 11: Bioassay: V23BperOS-1; Treatment: virus; Beetle ID: 1407

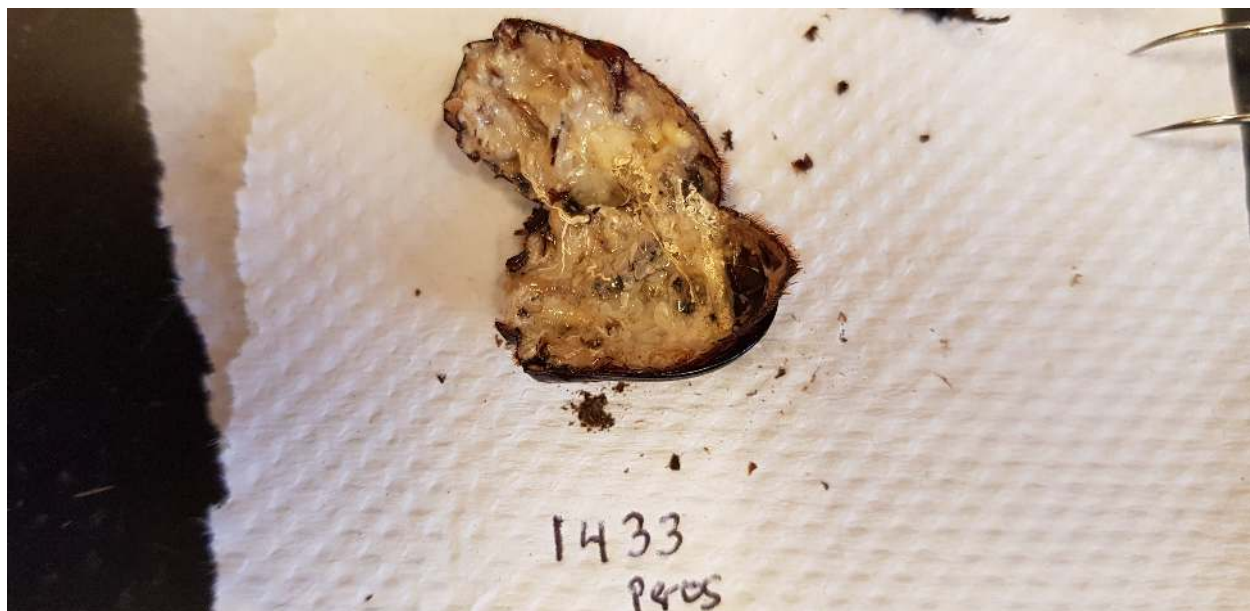


Figure 12: Bioassay: V23BperOS-2; Treatment: virus; Beetle ID: 1433