

Report: Testing hybrid vigor in the lab in response to
Eimeria

Alice

23 August 2018

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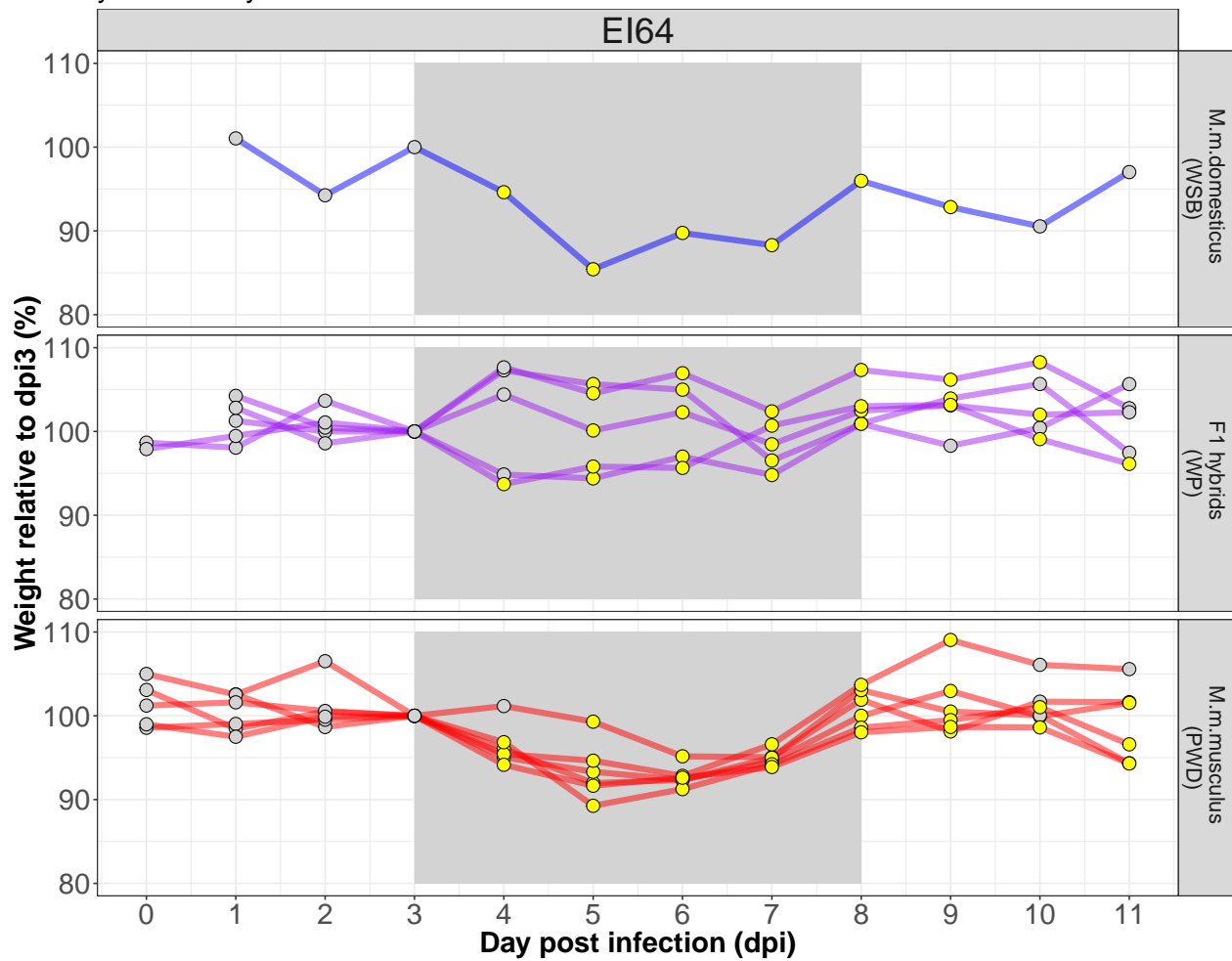
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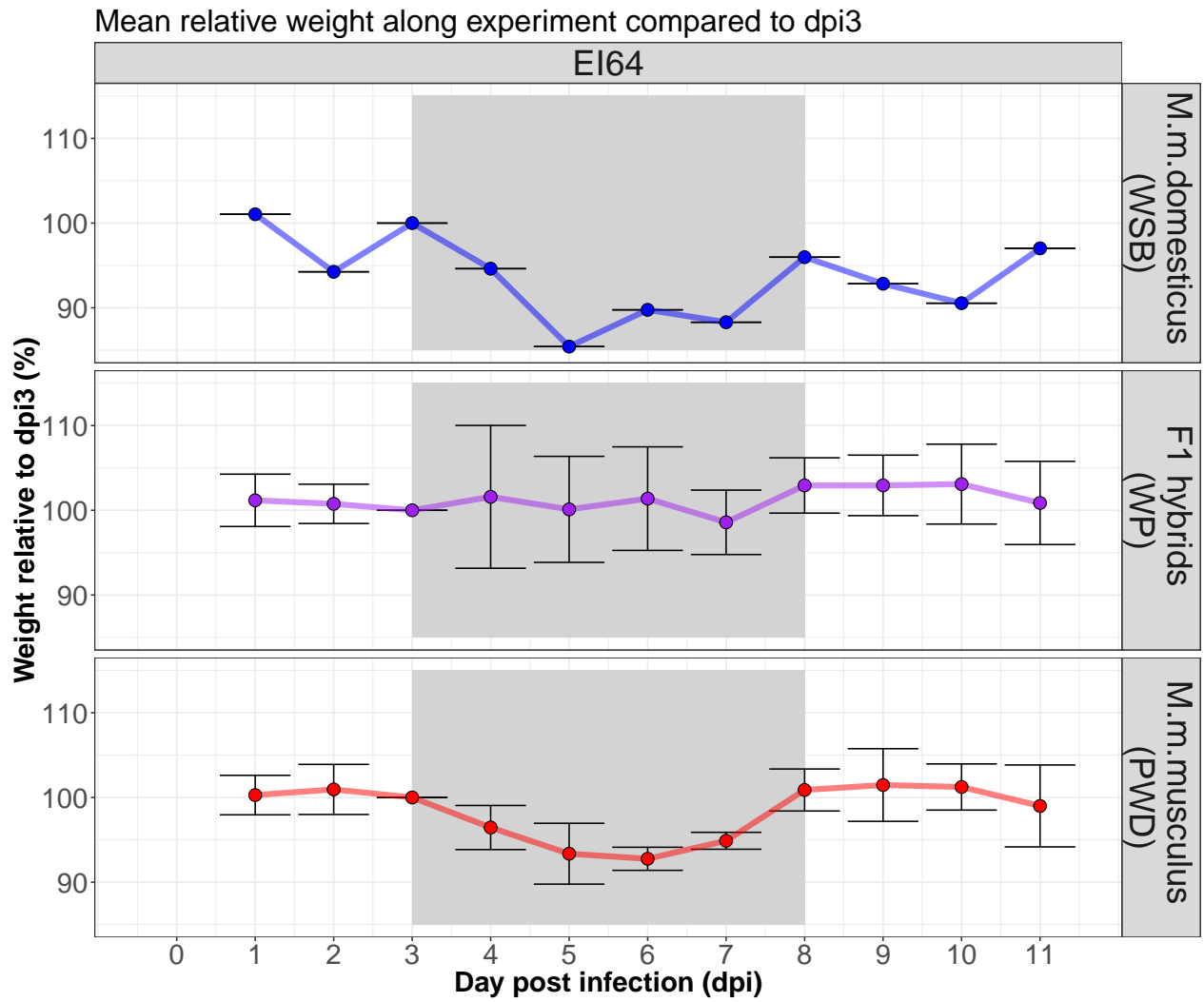
**Expe__001, March 2017, Francisca’s experiment. infection with E64
and Eflab**

`## Warning in qt(conf.interval/2 + 0.5, datac$N - 1): NaNs produced`

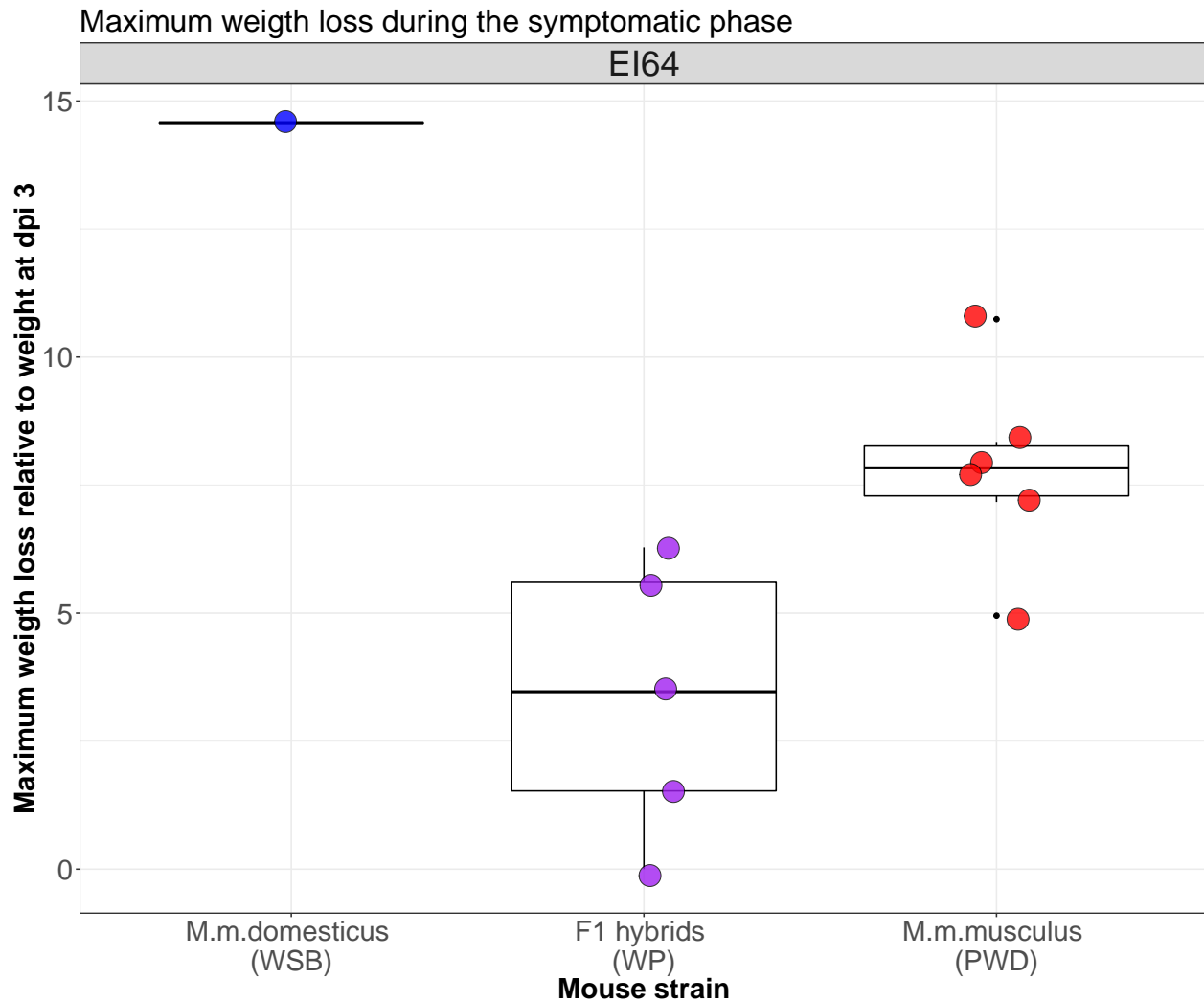
1. Weight loss

Relative weight along experiment compared to dpi3
yellow : oocysts detected in feces





For statistical analysis, we compare the maximum relative weight loss between the different groups. We limit our analysis to the period : dpi3 to dpi8 (symptomatic period for E64 strain).



```
##
## Call:
## lm(formula = relativeWeight ~ Mouse_strain, data = max.loss)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.9271 -0.9534 -0.0448  0.9445  3.3754
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)      85.423      2.254   37.890 3.08e-11 ***
## Mouse_strainF1 hybrids \n(WP)    11.201      2.470    4.536  0.00141 **
## Mouse_strainM.m.musculus \n(PWD)   6.764      2.435    2.778  0.02148 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.254 on 9 degrees of freedom
## Multiple R-squared:  0.7311, Adjusted R-squared:  0.6714
## F-statistic: 12.24 on 2 and 9 DF, p-value: 0.002711
```