Supporting Information

Quantitative Characterization of the Neuropeptide Level Changes in Dorsal Horn and Dorsal Root Ganglia Regions of the Murine Itch Models

 $Emily\ G.\ Tillmaand^{\S,1},\ Krishna\ D.\ B.\ Anapindi^{\S,1,2},\ Eduardo\ A.\ De\ La\ Toba^{1,2},\ Changxiong\ J.$

Guo⁴, Jessica Krebs³, Ashley E. Lenhart¹, Qin Liu⁴, Jonathan V. Sweedler^{*,1,2}

§co-first authors

*Corresponding author Email: jsweedle@illinois.edu

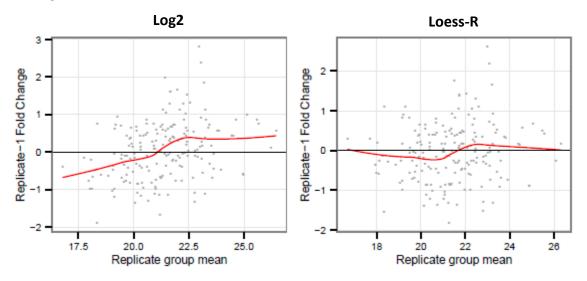
Tel: 217-244-7359

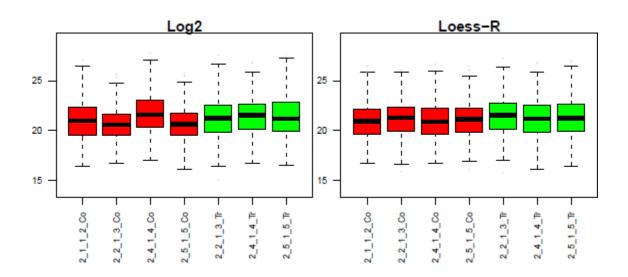
Table of Contents

Figure S1. Fold-change (M) vs. average (A) plots for the quantified peptides and box plots corresponding to all quantified peptides before and after normalization.

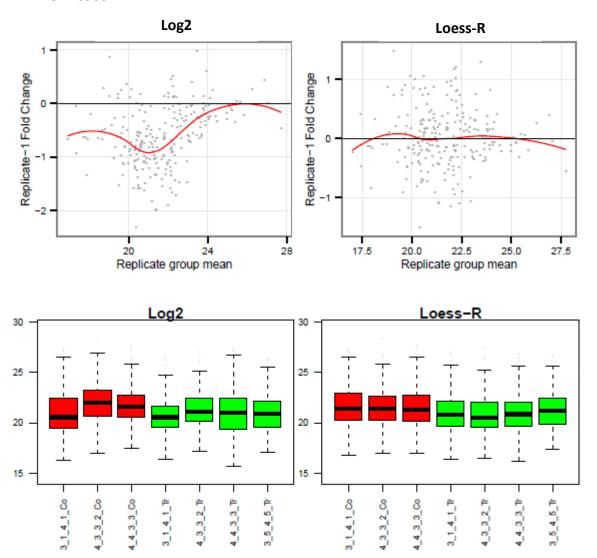
Figure S2. Plot of q-values for all the quantified peptides from the DH AEW model.

A. DRG AEW





B. DRG MC903



C. DH AEW

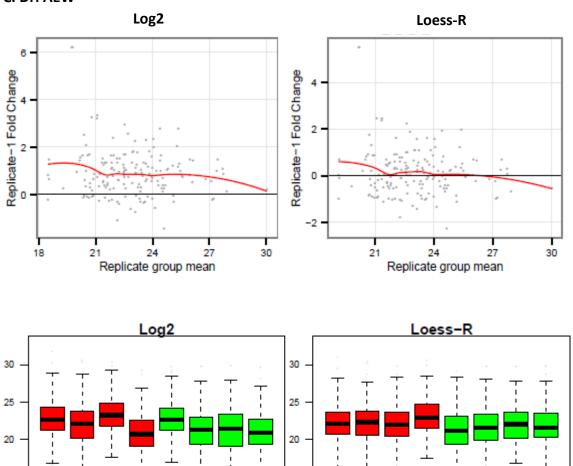
15

2_5_1_5_∞

1_3_2_2_∞

2_1_1_2_1

1424 F



15 -

2_5_1_5_∞

1_3_2_2_∞

13221

D. DH MC903

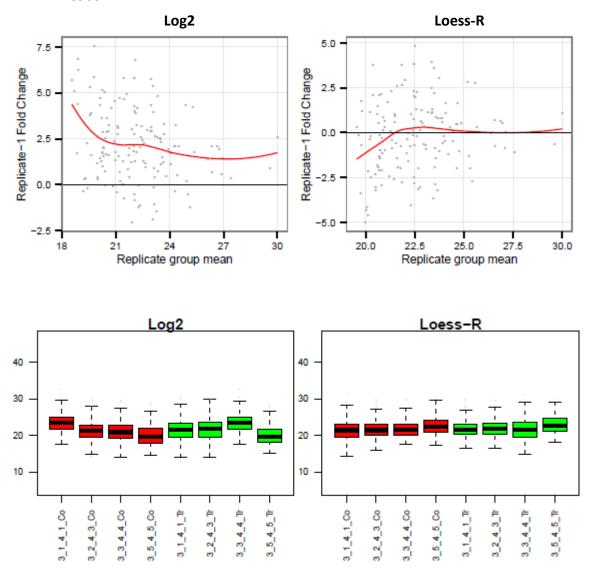


Figure S1. A–D. Fold-change (M) vs. average (A) plots for the quantified peptides and box plots corresponding to all quantified peptides before and after normalization. **Top rows:** MA plots where the y-axis represents the fold change (M) and the x-axis represents the group average (A). These plots illustrate the change introduced due to normalization via LOESS compared to unnormalized (Log2) peptide peak areas. Although each row depicts only 1 replicate, the two plots are representative of the whole sample. **Bottom rows:** Box plots that depict the first quartile, median, third quartile, and the interquartile range of the peptide quantitation data before and after normalization for all the replicates.

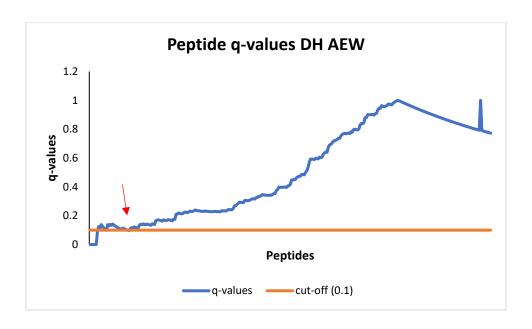


Figure S2. Due to the non-monotonic increase of q-values, we considered all of the peptides that fall under the farthest occurrence of $q \le 0.1$ (i.e., to the left of the red arrow).