

### Supplemental figure captions

**Figure S1. Lipid subclasses not identified as statistically significantly altered in mice infected with WNV.** Box-and-whiskers graphs displaying the lipid subclasses analyzed in infected mice that did not reach statistically significant values ( $P > 0.05$  for Sidak multiple comparison test). The box-and-whisker plots represent the median line, with boxes extending from 25th to 75th percentile and whiskers ranging from minimum to maximum values. Each symbol denotes a single animal ( $n = 9$  uninfected and  $n = 10$  infected mice at 3 dpi;  $n = 10$  uninfected and  $n = 10$  infected mice at 7 dpi;  $n = 10$  uninfected and  $n = 8$  infected mice at 10 dpi).

**Figure S2. Lipid species significantly altered in mice infected with WNV.** Box-and whiskers graph showing the comparison of significantly altered lipid species identified (FDR  $q$ -value  $< 0.05$  and  $\log_2$  fold change  $> 1$ ) between uninfected and WNV-infected mice. The box-and-whisker plots represent the median line, with boxes extending from 25th to 75th percentile and whiskers ranging from minimum to maximum values. Each symbol denotes a single animal ( $n = 9$  uninfected and  $n = 10$  infected mice at 3 dpi;  $n = 10$  uninfected and  $n = 10$  infected mice at 7 dpi; and  $n = 10$  uninfected and  $n = 8$  infected mice at 10 dpi).

**Figure S3. Lipid subclasses not identified as statistically significantly altered in WND patients.** Box-and-whiskers graphs displaying the lipid subclasses analyzed in WND patients that did not reach statistically significant values ( $P > 0.05$  for FDR  $q$ -value). The box-and-whisker plots represent the median line, with boxes extending from 25th to 75th percentile and whiskers ranging from minimum to maximum values. Each symbol denotes a single patient ( $n = 5$ ).