## Statistical output for Table S4

## File name: HPLC data analysis + stats + plots BEB\_working.R

Statistical comparisons of interest (treatment groups vs. vehicle control) are indicated in the red boxes

PND 5.5 serum

```
> summary(glht(aov(ng.ml~group, data=ser),linfct=mcp(group="Tukey")))
          Simultaneous Tests for General Linear Hypotheses
Multiple Comparisons of Means: Tukey Contrasts
Fit: aov(formula = ng.ml ~ group, data = ser)
Linear Hypotheses:
                                        Estimate Std. Error t value
0.1 mg/kg PFOA - Vehicle Control == 0
                                          2266.2
                                                       563.9
                                                              4.019
1.0 mg/kg PFOA - Vehicle Control == 0
                                         13015.5
                                                       563.9 23.081
0.2 mg/kg GenX - Vehicle Control == 0
                                                              0.732
                                          412.8
                                                       563.9
                  Vehicle Control == 0
                                          1315.6
1.0 mg/kg GenX -
                                                       563.9
                                                               2.333
2.0 mg/kg GenX -
                  Vehicle Control == 0
                                         2148.4
                                                       563.9
                                                              3.810
                                                       651.1 16.509
1.0 mg/kg PFOA -
                  0.1 mg/kg PFOA == 0
                                         10749.3
                                                      651.1 -2.846
651.1 -1.460
0.2 \text{ mg/kg GenX} - 0.1 \text{ mg/kg PFOA} == 0
                                         -1853.4
1.0 mg/kg
                                          -950.6
          GenX -
                  0.1 mg/kg PFOA == 0
                                                       651.1 -0.181
2.0 mg/kg GenX - 0.1 mg/kg PFOA == 0
                                          -117.8
                                                       651.1 -19.355
0.2 mg/kg GenX -
                  1.0 mg/kg PFOA == 0
                                        -12602.7
                                        -11699.9
1.0 mg/kg GenX - 1.0 mg/kg PFOA == 0
                                                       651.1 -17.969
2.0 mg/kg GenX -
                                        -10867.1
                                                       651.1 -16.689
                  1.0 mg/kg PFOA == 0
1.0 mg/kg GenX - 0.2 mg/kg GenX == 0
                                           902.8
                                                       651.1
                                                               1.386
2.0 mg/kg GenX - 0.2 mg/kg GenX == 0
                                          1735.6
                                                       651.1
                                                               2.666
2.0 mg/kg GenX - 1.0 mg/kg GenX == 0
                                          832.8
                                                       651.1
                                                               1.279
                                        Pr(>|t|)
0.1 mg/kg PFOA - Vehicle Control == 0 0.00461 **
1.0 mg/kg PFOA - Vehicle Control = 0
0.2 mg/kg GenX - Vehicle Control = 0
                                         < 0.001 ***
                                         0.97590
1.0 mg/kg GenX - Vehicle Control == 0
                                         0.21206
2.0 mg/kg GenX - Vehicle Control == 0
                                        0.00781 **
                                         < 0.001 ***
1.0 mg/kg PFOA - 0.1 mg/kg PFOA == 0
0.2 mg/kg GenX - 0.1 mg/kg PFOA == 0
                                         0.07715
1.0 mg/kg GenX - 0.1 mg/kg PFOA == 0
                                         0.68882
2.0 mg/kg
                                         0.99997
          GenX - 0.1 mg/kg PFOA == 0
0.2 mg/kg GenX - 1.0 mg/kg PFOA == 0
                                         < 0.001 ***
1.0 mg/kg GenX - 1.0 mg/kg PFOA == 0
                                         < 0.001
2.0 mg/kg GenX - 1.0 mg/kg PFOA == 0
                                         < 0.001
1.0 mg/kg GenX - 0.2 mg/kg GenX == 0
                                         0.73217
2.0 mg/kg GenX - 0.2 mg/kg GenX == 0
                                         0.11250
2.0 mg/kg GenX - 1.0 mg/kg GenX == 0
                                         0.79174
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
(Adjusted p values reported -- single-step method)
```

```
> summary(glht(aov(ng.ml~group, data=ur),linfct=mcp(group="Tukey")))
          Simultaneous Tests for General Linear Hypotheses
Multiple Comparisons of Means: Tukey Contrasts
Fit: aov(formula = ng.ml ~ group, data = ur)
Linear Hypotheses:
                                        Estimate Std. Error t value
                                                     342.05
0.1 mg/kg PFOA - Vehicle Control == 0
                                          97.50
                                                              0.285
1.0 mg/kg PFOA - Vehicle Control == 0
                                          412.51
                                                     342.05
                                                              1.206
0.2 mg/kg GenX - Vehicle Control == 0
                                         512.33
                                                     342.05
                                                              1.498
1.0 mg/kg GenX -
                  Vehicle Control
                                         1805.52
                                                     342.05
                                                              5.279
2.0 mg/kg GenX -
                  Vehicle Control == 0
                                        3402.21
                                                     342.05
                                                              9.947
1.0 mg/kg PFOA - 0.1 mg/kg PFOA == 0
                                         315.01
                                                     394.96
                                                              0.798
0.2 \text{ mg/kg GenX} - 0.1 \text{ mg/kg PFOA} == 0
                                         414.83
                                                     394.96
                                                              1.050
1.0 mg/kg GenX - 0.1 mg/kg PFOA == 0
                                        1708.02
                                                     394.96
                                                              4.325
2.0 mg/kg GenX - 0.1 mg/kg PFOA == 0
                                         3304.71
                                                     394.96
                                                              8.367
0.2 mg/kg GenX - 1.0 mg/kg PFOA == 0
                                           99.82
                                                     394.96
                                                              0.253
1.0 mg/kg GenX -
                  1.0 mg/kg PFOA == 0
                                         1393.01
                                                     394.96
                                                              3.527
2.0 mg/kg GenX -
                  1.0 mg/kg PFOA == 0
                                         2989.70
                                                     394.96
                                                              7.570
1.0 mg/kg GenX - 0.2 mg/kg GenX == 0
                                        1293.19
                                                     394.96
                                                              3.274
2.0 mg/kg GenX - 0.2 mg/kg GenX == 0
                                                     394.96
                                                              7.317
                                        2889.88
2.0 mg/kg GenX - 1.0 mg/kg GenX == 0
                                                     394.96
                                        1596.69
                                                              4.043
                                        Pr(>|t|)
0.1 mg/kg PFOA - Vehicle Control == 0
1.0 mg/kg PFOA - Vehicle Control == 0
                                        0.82865
0.2 mg/kg GenX -
                  Vehicle Control == 0
                                        0.66561
1.0 mg/kg GenX - Vehicle Control == 0
                                        < 0.001 ***
2.0 mg/kg GenX - Vehicle Control == 0
                                        < 0.001 ***
1.0 mg/kg PFOA - 0.1 mg/kg PFOA == 0
                                        0.96520
0.2 mg/kg GenX - 0.1 mg/kg PFOA == 0
                                        0.89540
1.0 mg/kg GenX - 0.1 mg/kg PFOA == 0
                                        0.00204 **
2.0 mg/kg GenX - 0.1 mg/kg PFOA == 0
0.2 mg/kg GenX -
                  1.0 mg/kg PFOA == 0
                                        0.99984
1.0 mg/kg GenX - 1.0 mg/kg PFOA == 0
                                        0.01600
                                        < 0.001 ***
2.0 mg/kg GenX -
                  1.0 mg/kg PFOA == 0
1.0 mg/kg GenX - 0.2 mg/kg GenX == 0
                                        0.02937
                                         < 0.001 ***
2.0 mg/kg GenX - 0.2 mg/kg GenX == 0
2.0 mg/kg GenX - 1.0 mg/kg GenX == 0
                                        0.00431 **
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 (Adjusted p values reported -- single-step method)
```

PND 5.5 urine

## Statistical output for Fig. 2

## File name: PND0.5 and PND5.5 weights BEB 05252021.R

```
> ## Same model run with different package to obtain p-value in model summary output
> summary(lme(weight~group+LitterSize,random=~1|DamID, data=pnd5))
Linear mixed-effects model fit by REML
Data: pnd5
    AIC
               BIC
                     logLik
  653.569 694.2943 -317.7845
Random effects:
Formula: ~1 | DamID
(Intercept) Residual
StdDev: 0.2529485 0.3494981
Fixed effects: weight ~ group + LitterSize
                     Value Std.Error DF t-value p-value 5.247649 0.22862363 633 22.953220 0.0000
(Intercept)
groupGenX 0.2 mg/kg -0.030700 0.12491549 49 -0.245764 0.8069
groupGenX 1.0 mg/kg -0.337676 0.12583046 49 -2.683580
                                                        0.0099
groupGenX 2.0 mg/kg -0.356153 0.12339543 49 -2.886274 0.0058
groupPFOA 0.1 mg/kg -0.035856 0.12574751 49 -0.285142
                                                         0.7767
groupPFOA 1.0 mg/kg -0.187692 0.12475416 49 -1.504498 0.1389
                    -0.117646 0.01616037 49 -7.279905 0.0000
LitterSize
Correlation:
                    (Intr) gGX0.m gGX1.m gGX2.m gPF00m gPF01m
groupGenX 0.2 mg/kg -0.309
groupGenX 1.0 mg/kg -0.335 0.473
groupGenX 2.0 mg/kg -0.397 0.486 0.487
groupPFOA 0.1 mg/kg -0.353 0.475 0.475 0.490
groupPFOA 1.0 mg/kg -0.265 0.473 0.470 0.480 0.470
LitterSize
                    -0.927 0.056 0.085 0.147 0.105
Standardized Within-Group Residuals:
        Min
                     Q1
                                Med
                                              Q3
-5.21218322 -0.50378190 0.06382413 0.58940432 3.20138110
Number of Observations: 689
Number of Groups: 56
```