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### **Supplemental Material**

#### **Evaluation and Optimization of Pharmacokinetic Models for *in Vitro* to *in Vivo* Extrapolation of Estrogenic Activity for Environmental Chemicals**

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**Table S1.** EAD (mg/kg/day) values estimated from ACC<sub>ER</sub> using various pharmacokinetic models compared to *in vivo* uterotrophic LELs (mg/kg/day) (data for Figure 4 and Figure 5).

**Table S2.** Root mean squared error (RMSE) and mean residual values (MRV) for 8 pharmacokinetic model-adjustment combinations (data for Figure 2 and Figure 3).

**Table S3.** EAD values estimated from ACC<sub>ER</sub> using PPK model with  $f_u$  or EF adjustment for all the 266 ToxCast chemicals that are potential estrogen receptor agonists (data for Figure 6).

**Additional File-** Excel Document