Moreover, the basal level of CYP1A2 in hepatocytes is a dynamic value and depends on the age of the animal[26], but the dynamics of porcine CYP1A2 expression have not been studied yet. Therefore, the values of CYP1A2 concentration in liver cells cannot be extrapolated to the whole time span of an experiment. So, one of the further steps to test the applicability of Goss' database for prediction of TCDD partition within biological tissues would be to exclude from the calculation the fraction of TCDD molecules that are bound to the mentioned proteins.
In summary, the presented work serves as the basis for further development of PBPK model of TCDD transfer from contaminated feed into growing pigs, which will be revised and validated after additional measurements are performed. Deeper insight into chemical interactions of TCDD with liver proteins would allow us to conclude whether it is possible in the case of TCDD to substitute invasive measurements on experimental animals with *in silico* predicted partition coefficients.

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