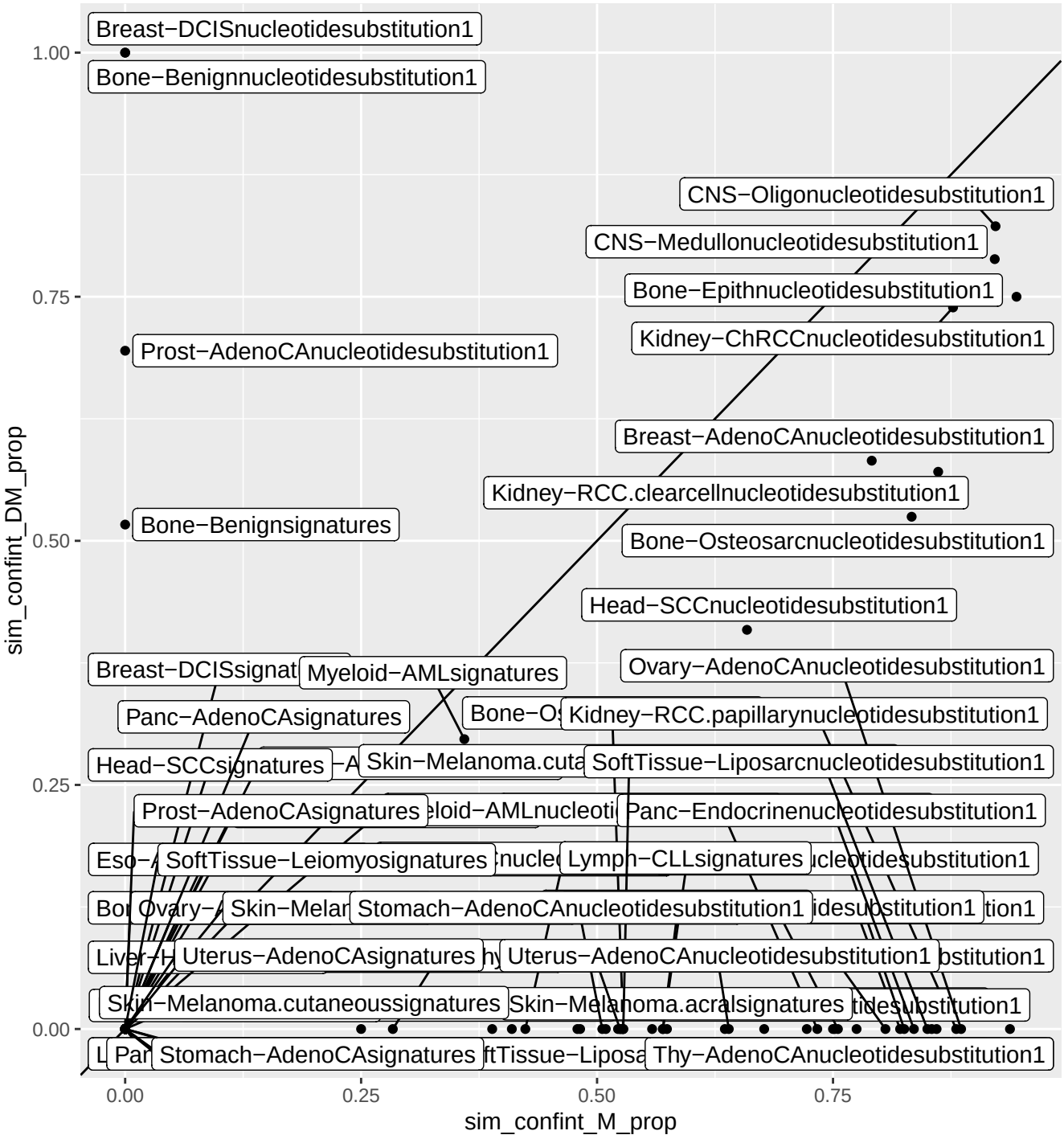Fraction of observed values of simulations under the model with inferred paramet