

## Supplementary materials

# Composition-Based Risk Estimation of Mycotoxins in Dry Dog Foods

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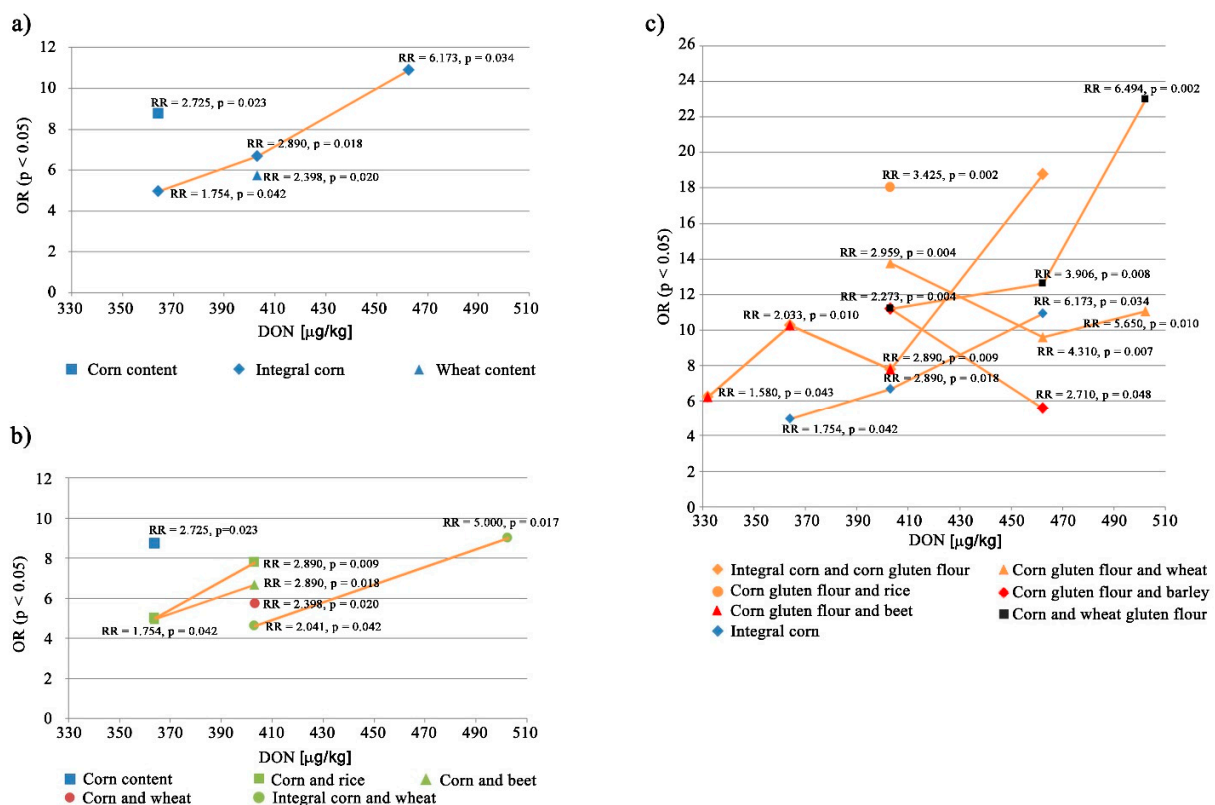
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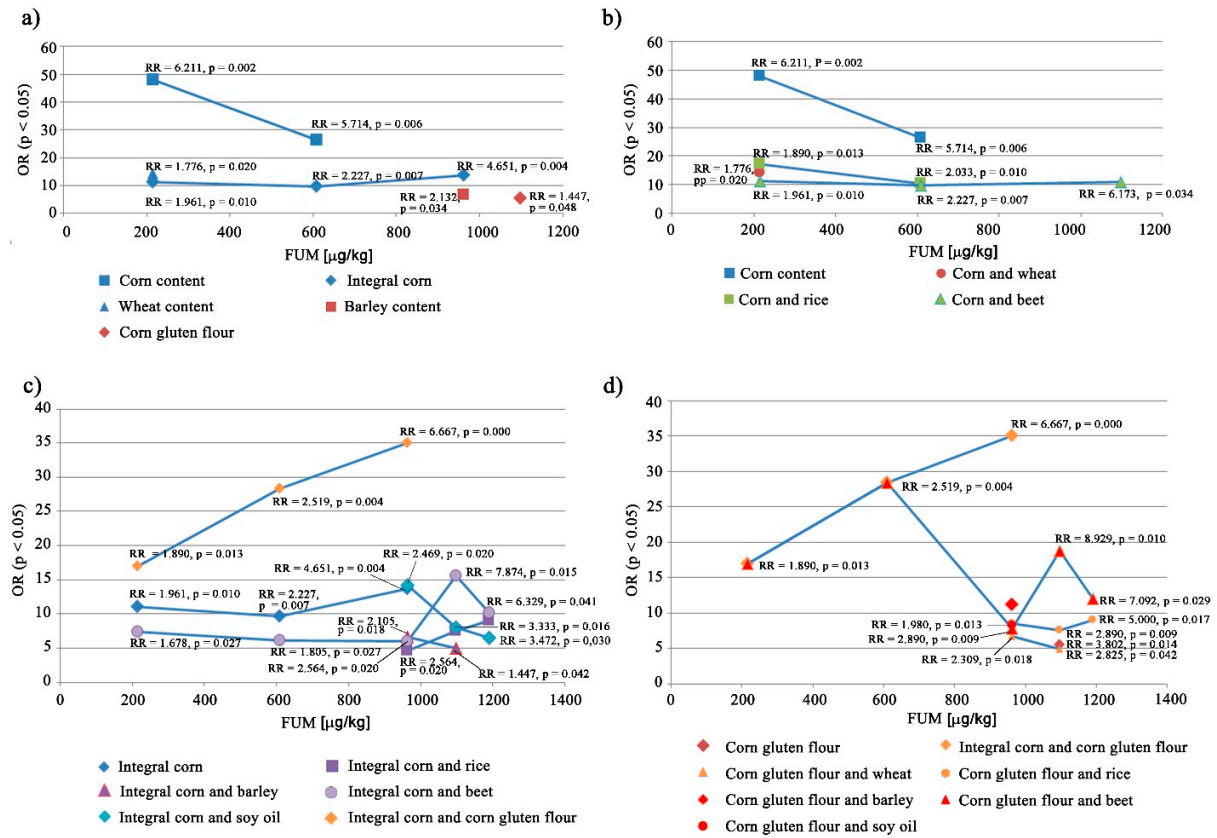
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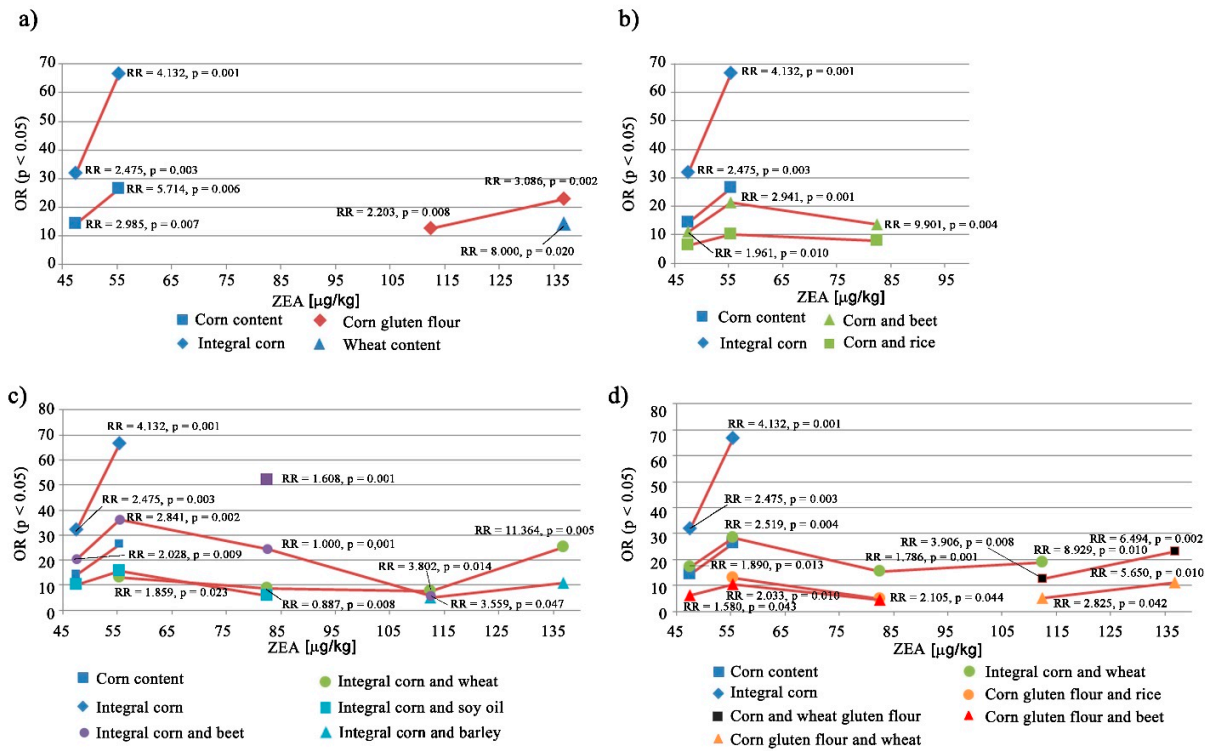
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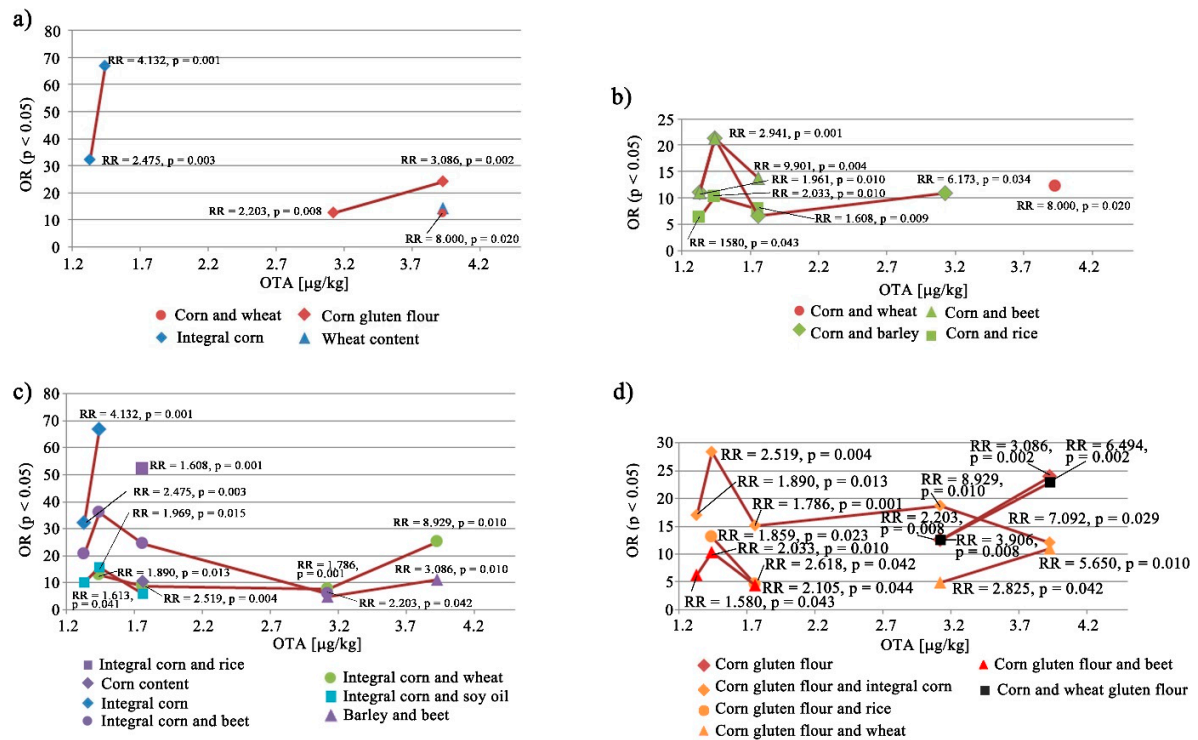
**Figure S1.** Association levels of ingredients or combinations of ingredients with DON levels above the threshold values,  $t_1^{\alpha}$ : (a) corn, integral corn, and wheat; (b) combinations of corn with other ingredients; (c) combinations of corn or wheat gluten flour with other ingredients. We kept the integral corn for reference in (b) and (c).



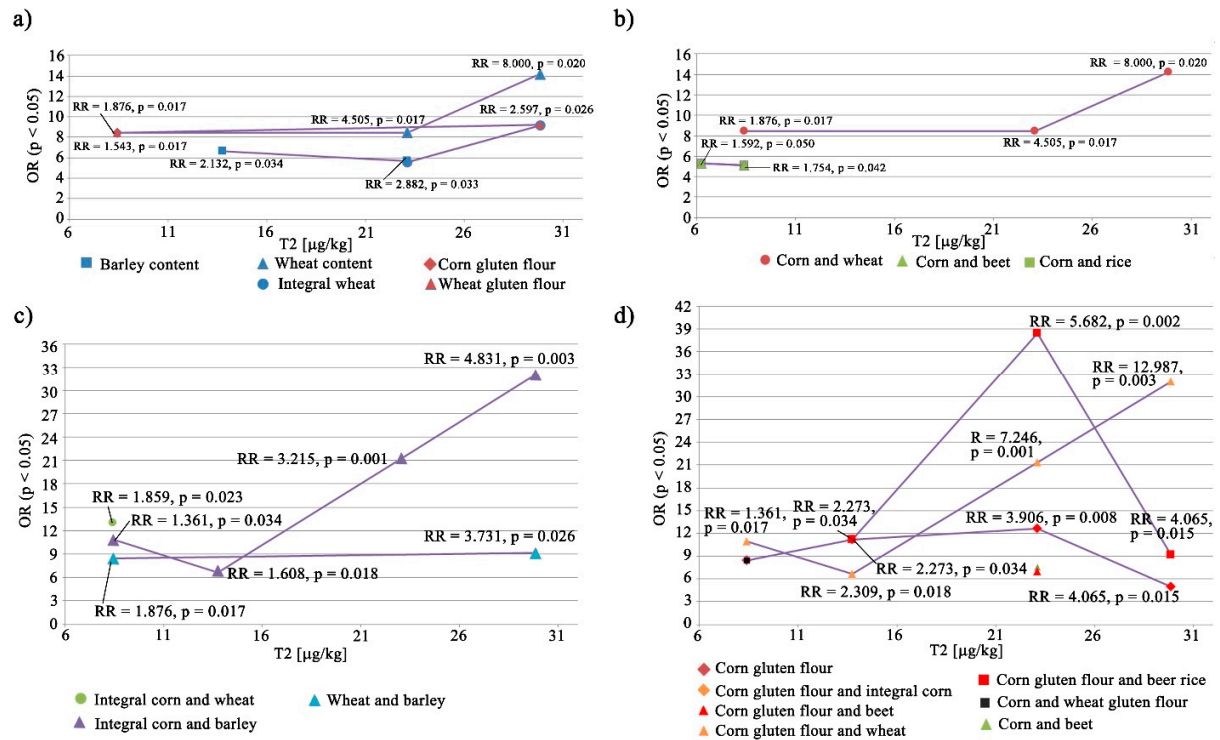
**Figure S2.** Association levels of ingredients or combinations of ingredients with FUM levels above the threshold values,  $t_2^{\alpha}$ : (a) corn, integral corn, wheat, barley, and corn gluten flour; (b) combinations of corn with other ingredients; (c) combinations of integral corn with other ingredients; (d) combinations of corn gluten flour with other ingredients. We added the corn, the integral corn, and corn gluten flour for reference in (b), (c), and (d), respectively.



**Figure S3.** Association levels of ingredients or combinations of ingredients with ZEA levels above the threshold values,  $t_3^a$ : (a) corn, integral corn, wheat, and corn gluten flour; (b) combinations of corn with other ingredients; (c) combinations of integral corn with other ingredients; (d) combinations of corn or wheat gluten flour with other ingredients. We added the corn and the integral corn for reference in (b), (c), and (d).



**Figure S4.** Association levels of ingredients or combinations of ingredients with OTA levels above the threshold values,  $t_4^a$ : (a) integral corn, wheat, corn and wheat and corn gluten flour; (b) combinations of corn with other ingredients; (c) combinations of integral corn with other ingredients; (d) combinations of corn or wheat gluten flour with other ingredients. We added the corn and the integral corn for reference in (c).



**Figure S5.** Association levels of ingredients or combinations of ingredients with T2 levels above the threshold values,  $t_5^a$ : (a) integral corn, wheat, integral wheat, barley, corn and wheat gluten flour; (b) combinations of corn with other ingredients; (c) combinations of integral corn with other ingredients; (d) combinations of corn or wheat gluten flour with other ingredients.