# Genomic model with correlation between additive and dominance effects

Tao Xiang, Ole F. Christensen, Zulma G. Vitezica, Andres Legarra

- **Backgrounds:**

I. Additive and dominance effects assumed to be independent

II. Magnitudes of additive and dominance effects at QTLs are related

III. Wellmanna and Bennewitz (2012) considered the relationships between additive and dominance in Bayesian approach

- **Conclusions:**

1) Assigining the most frequent allele as the reference allele orients a positive correlation between additive and dominance effects

2) Esimation easily by REML in breeding software

3) Genomic prediction significantly improved if accounting such correlation in a genomic model