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Automated quantification of defective maize kernels by means of multivariate image analysis

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- RGB image analysis was used to quantify the percentage of defective maize (%DM)
- A positive correlation was observed between %DM and concentration of Deoxynivalenol
- Conversion of images into signals (colourgrams) allowed to use large image datasets
- Feature selection applied to colourgrams led to satisfactory prediction of %DM
- Image reconstruction of the selected features allowed easy defects visualization

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