

# Top Five Lessons Learned

1. **Big data-based monitoring**, supported by **machine learning** is contributing to improved decision support tools, including more accurate **forecasting** of mycotoxin formation on the field.
2. The negative impact of low levels of mycotoxins on **livestock productivity** and **environmental sustainability** begins to emerge and needs to be fully quantified. **Mitigation** through our friends, **the bugs!**
3. **Effect of mycotoxins** as predisposing factor in the pathogenesis of **viral/bacterial diseases** and **in vaccine and therapy failure** is still unclear => more research needed.
4. The effect of **food processing on the fate of mycotoxins** at industrial scale (bread, pizza, ...) has become state-of-the-art with more activities to come!

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5. **Exposome:** Chronic low-dose exposure of **multiple mycotoxins** can potentially lead to synergistic effects and human carcinogenesis => studies on the relationship of mycotoxins and **gut microbiota** are crucial (taking into consideration the potential shift of exposure through **greener diets**).

**HOWEVER:** The nexus between **food safety and food insecurity** caused by mycotoxins must become part of the discussions that deal with the global food crisis!