

Peer-reviewed publications authored by Testbiotech experts or resulting from projects supported by Testbiotech

(July 2020)

Bauer-Pankus, A., Breckling, B., Hamberger, S., Then, C. (2013) Cultivation-independent establishment of genetically engineered plants in natural populations: current evidence and implications for EU regulation. *Environ Sci Eur*, 25, 34. <https://doi.org/10.1186/2190-4715-25-34>

Bauer-Pankus, A., Miyazaki, J., Kawall, K., Then, C. (2020) Risk assessment of genetically engineered plants that can persist and propagate in the environment. *Environ Sci Eur*, 32, 32. <https://doi.org/10.1186/s12302-020-00301-0>

Kawall, K. (2019) New Possibilities on the Horizon: Genome editing makes the whole genome accessible for changes. *Front Plant Sci*, 10, 525. <https://doi.org/10.3389/fpls.2019.00525>

Kawall, K., Cotter, J., Then, C. (2020) Broadening the EU GMO risk assessment in the EU for genome editing technologies in agriculture. *Environ Sci Eur*, 32(1): 1-24. <https://doi.org/10.1186/s12302-020-00361-2>

Mesnage R, Clair E, Gress S, Then C, Székács A, Séralini GE (2012) Cytotoxicity on human cells of Cry1Ab and Cry1Ac Bt insecticidal toxins alone or with a glyphosate-based herbicide. *J Appl Toxicol*, 33(7), 695–699. <https://doi.org/10.1002/jat.2712>

Miyazaki, J., Bauer-Pankus A., Bøhn T., Reichenbecher W., Then C. (2019) Insufficient risk assessment of herbicide tolerant genetically engineered soybeans intended for import into the EU. *Environ Sci Eur*, 31, 29. <https://doi.org/10.1186/s12302-019-0274-1>

Székács, A., Weiss, G., Quist, D., Takács, E., Darvas, B., Meier, M., Swain, T., Hilbeck, A. (2012) Inter-laboratory comparison of Cry1Ab toxin quantification in MON 810 maize by enzyme-immunoassay. *Food Agric Immunol*, 23, 99–121. <https://doi.org/10.1080/09540105.2011.604773>

Then, C. (2010) New pest in crop caused by large scale cultivation of Bt corn. In: Breckling, B. & Verhoeven, R. (eds), *Implications of GM-Crop Cultivation at Large Spatial Scales* (pp 94-97). *Theorie in der Ökologie* 16. Frankfurt, Peter Lang. <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.664.1876&rep=rep1&type=pdf>

Then, C. (2010) Risk assessment of toxins derived from *Bacillus thuringiensis*: synergism, efficacy, and selectivity. *Environ Sci Pollut Res Int* 17, 791–797. <https://doi.org/10.1007/s11356-009-0208-3>

Then, C. (2020) Limits of Knowledge and Tipping Points in the Risk Assessment of Gene Drive Organisms. In: von Gleich A., Schröder W. (eds), *Gene Drives at Tipping Points* (pp. 187-217). Springer, Cham. https://doi.org/10.1007/978-3-030-38934-5_8

Then, C. Kawall, K., Valenzuela, N. (2020) Spatio-temporal controllability and environmental risk assessment of genetically engineered gene drive organisms from the perspective of EU GMO Regulation. *Integr Environ Assess Manag*. <https://doi.org/10.1002/ieam.4278>

Then, C., Bauer-Panskus, A. (2017) Possible health impacts of Bt toxins and residues from spraying with complementary herbicides in genetically engineered soybeans and risk assessment as performed by the European Food Safety Authority EFSA. *Environ. Sci Eur*, 29, 1.

<https://doi.org/10.1186/s12302-016-0099-0>

Then, C., Lorch, A. (2008) A simple question in a complex environment: How much Bt toxin do genetically engineered MON810 maize plants actually produce?, in: Breckling, B., Reuter, H. & Verhoeven, R. (eds), *Implications of GM-Crop Cultivation at Large Spatial Scales* (pp 17–21). *Theorie in der Ökologie*, 14. Frankfurt, Peter Lang. http://www.ifrik.org/files/files-ifrik/0809_then-lorch_GMLS_simple-question-Bt.pdf

Trtikova, M., Lohn, A., Binimelis, R., Chapela, I., Oehen, B., Zemp, N., Widmer, A., Hilbeck, A., (2017) Teosinte in Europe – searching for the origin of a novel weed. *Sci Rep*, 7, 1560.

<https://doi.org/10.1038/s41598-017-01478-w>

Trtikova, M., Wikmark, O.G., Zemp, N., Widmer, A., Hilbeck, A. (2015) Transgene expression and Bt protein content in transgenic Bt maize (MON810) under optimal and stressful environmental conditions. *PLOS ONE*, 10, e0123011. <https://doi.org/10.1371/journal.pone.0123011>