

**88TH ADVISORY FORUM
STOCKHOLM, 27-28 JUNE**

NEW GENOMIC TECHNIQUES



PRESENT AND FUTURE GMOS ...

GM plants...



- Stable Integration
- Transgene expression
- No control as to 'landing site' for transgene in host plant
- EU regulations since early 2000s

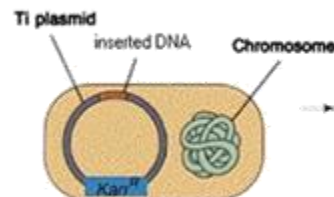
- Increased target specification and precision
- Increased innovation in plant modification
- Tailored to consumer needs
- Increased focus on nutrition

EGTs (before 2001)

Physical methods

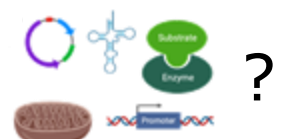
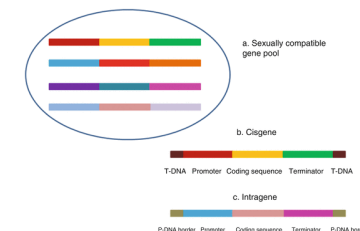
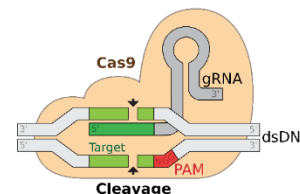


Biological methods



NGTs

SDNs/Base editing... Cis/Intragenesis SynBio ...



EFSA GMO OPINIONS

EFSA has worked on the topic of NGT since 2012

The questions addressed were:

- New hazards , potential risks?
- Potential risks in comparison to conventional breeding and EGT
- Are EFSA guidelines adequate for risk assessment?
- Identify possible updates needed

<https://www.efsa.europa.eu/en/topics/topic/new-advances-biotechnology>



EC PROPOSAL – JULY 2023

This initiative will propose a legal framework for **plants obtained by targeted mutagenesis and cisgenesis** and for their food and feed products.

The European Commission asked for EFSA scientific advice to support their ongoing policy initiative on new genomic techniques.

- [Criteria for risk assessment of plants produced by targeted mutagenesis, cisgenesis and intragenesis](#)

Stakeholder Event on 'The safety of plants derived from New Genomic Techniques: looking into future risk assessment challenges'

📅 12 December 2022, 14.00 - 17.00 (CET)

📍 Online

Share:   



NEXT

- EFSA is working on a Scientific opinion on new developments in biotechnology applied to microorganisms ([LINK](#)) and to animals (including synthetic biology and new genomic techniques) ([LINK](#))
- Continue exchange of knowledge with MS GMO network
- Hold a dedicated session at the AF in October to share experience?



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