

Review of risk assessment methodology for RNAi-based GM plants

Ad-hoc meeting with GMO applicants

8/04/2024



PROJECT AIMS

EFSA's objectives: in order to update EFSA's guidance documents, the scientific literature is regularly reviewed and the RA methodologies are updated, if needed, to follow the progress in knowledge in the field;

EFSA provides support for the applicants in order to harmonise data submission and reduce risk assessment time

Literature searches to determine the need for update of EFSA's strategy for the RA of RNAi-based GM plants

Bioinformatic tool delivered by EFSA to the applicant to harmonise plant RNAi off-target searches



PROJECT TIMELINE

Project start: December 2022

Literature search start: January 2023

Milestone review: Q3 2023

Project end: Q3 2024



GUIDANCE DOCUMENT ON RNAI-BASED GM PLANTS

- Legal basis: Commission Implementing Regulation 503/2013, section 1.2.2.3 (e)
- Based on previous EFSA work: <u>Pačes et al., 2017</u>, <u>Dávalos et al., 2019</u>, <u>Papadopoulou et al., 2020</u> and literature search from 2017 onwards
- To supersede Annex II to the 118th GMO Panel meeting minutes
- Areas to be covered: molecular characterisation, dietary exposure
- To be published at the end of 2024



BIOINFORMATIC TOOL FOR PLANT RNAI OFF-TARGETS

- A script to be used for the IR 503/2013-required dsRNA off-target analysis, in plants
- The analysis will not be performed in EFSA environment
- To be run by the applicants; independent of EFSA submission tools
- Outcome will not be known/stored in EFSA; is owned by the applicant
- The result to be analysed by the applicant and submitted in the respective study with the GMO application dossier
- To be made available through an open-source repository
- First version of the script to be made available for applicants' feedback at the beginning of May



STAY CONNECTED

SUBSCRIBE TO

efsa.europa.eu/en/news/newsletters efsa.europa.eu/en/rss Careers.efsa.europa.eu – job alerts



FOLLOW US ON TWITTER

@efsa_eu
@plants_efsa

@methods_efsa

efsa @animals_efsa



FOLLOW US ON INSTAGRAM

@one_healthenv_eu



LISTEN TO OUR PODCAST

Science on the Menu –Spotify, Apple Podcast and YouTube



FOLLOW US ON LINKEDIN

Linkedin.com/company/efsa



CONTACT US

efsa.europe.eu/en/contact/askefsa



