

Biological health risks • Biosafety and biotechnology

Date: 22/11/2023

Your references: SCBD/CPU/DC/WM/AMC/MW/91277

Our references: BAC-2023-1357

Contact: Fanny Coppens

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Subject: Information on detection and identification of living modified organisms pursuant to paragraph 3 of decision CP-10/11

Part I. Endorsement of submission

Name of Country/Organization: **Belgium**

Name of Cartagena Protocol Focal point/Head of Organization endorsing: **Fanny Coppens**

Signature of the Cartagena Protocol Focal Point/ Head of Organization:

Date: 22/11/2023

Part II. Submission of information

In decision CP-10/11, the Conference of Parties serving as a meeting of the Parties to the Cartagena Protocol on Biosafety (COP-MOP) invited Parties and relevant organizations to submit information on their experience with new detection techniques, detecting newly developed and unauthorized living modified organisms and developing reference materials, as well as ongoing collaborations involving national and regional laboratories. At its twenty-sixth meeting, the Subsidiary Body on Scientific, Technical and Technological Advice to consider the information submitted and prepare a recommendation on the need to update Biosafety Technical Series 05: Training Manual on the Detection and Identification of Living Modified Organisms in the Context of the Cartagena Protocol on Biosafety.

Based on this, please submit information on the following areas:

1. New techniques or tools for the detection and identification of living modified organisms: **See supporting documentation below.**
2. Experience with:
 - a. New detection techniques
 - b. Detecting newly developed and/or unauthorized living modified organisms: **See supporting documentation below.**
 - c. Developing reference materials
3. Collaborations or agreements between national and/or regional laboratories

Participation in Belgian project GENEDIT: Development and evaluation of approaches for detection of plants modified by new genome editing techniques (2021-2024)

Participation in EU project DARWIN: Transition to safe & sustainable food systems through new & innovative detection methods & digital solutions for plant-based products derived from new genomic techniques, under a co-creation approach (2024-2027).

Participation in ENGL working group Method Performance requirements (incl. criteria for methods detecting GE plants)

Participation in ENGL working group on GE plants, animals and microorganisms

Submission of supporting documentation:

For any publication that you may want to share as part of your submission, kindly include:

1. Name of publication(s), author, date and DOI or URL link.

Fraiture, M.-A. et al. Targeted High-Throughput Sequencing Enables the Detection of Single Nucleotide Variations in CRISPR/Cas9 Gene-Edited Organisms. *Foods* 2023, 12, 455.

<https://doi.org/10.3390/foods12030455>

Fraiture, M.-A. et al. ddPCR strategy to detect a gene-edited plant carrying a single variation point: Technical feasibility and interpretation issues. *Food Control* 137 (2022) 108904.

<https://doi.org/10.1016/j.foodcont.2022.108904>

2. Attach in pdf format any publication you have listed above.