



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 127th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 09 April 2021, TELE/WEB
(Agreed on 15 April 2021)**

Participants

■ Working Group Members:

Josep Casacuberta, Tamas Dalmay, Philippe Guerche and Nils Rostoks

■ Hearing Experts¹:

– none

■ European Commission and/or Member States representatives:

– DG SANTE: Ilaria Ciabatti

■ EFSA:

– GMO Unit: Paolo Lenzi, Tommaso Raffaello

■ Others:

– none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 126th Working Group meeting held on 15-16 March 2021 via TELE/WEB.

The minutes of the 126th Working Group meeting held on 15-16 March 2021 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 Scientific opinion on *in vitro* random mutagenesis⁵

The Working group discussed the mandate. Further discussion is needed.

6. AOB

None

7. Next meeting

3-4 May 2021, TELE/WEB

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <https://www.efsa.europa.eu/sites/default/files/wqs/qmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <https://open.efsa.europa.eu/questions/EFSA-Q-2020-00445>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 126th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 15-16 March 2021, TELE/WEB
(Agreed on 26 March 2021)**

Participants

■ Working Group Members:

Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Fabien Nogué, Nils Rostoks, and Jose Juan Sanchez Serrano

■ Hearing Experts¹:

- none

■ European Commission and/or Member States representatives:

- DG SANTE: Alexandre Huchelmann

■ EFSA:

- GMO Unit: Silvia Federici, Dafni Maria Kagkli, Paolo Lenzi, Nikoletta Papadopoulou, Pietro Piffanelli, Tommaso Raffaello

■ Others:

- none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 125th Working Group meeting held on 19 February 2021 via TELE/WEB.

The minutes of the 125th Working Group meeting held on 19 February 2021 were agreed.⁴

5. Scientific topic(s) for discussion⁵

5.1 EFSA-GMO-DE-2017-141 (Cotton COT102)

The Working Group discussed the application. Further discussion and additional clarifications from the applicant are needed.

5.2 EFSA-GMO-DE-2019-157 (Canola LBFLFK)

The Working group discussed the application. Further discussion is needed.

5.3 EFSA-GMO-NL-2012-109 (Oilseed rape 73496)

The Working group discussed the application and finalised the Molecular Characterisation section of the draft opinion.

5.4 EFSA-GMO-NL-2019-161 (Maize MON87429)

The Working group discussed the application. Further discussion is needed.

5.5 EFSA-GMO-NL-2019-163 (Maize DP-023211-2)

The Working group discussed the application. Further discussion and additional clarifications from the applicant are needed.

5.6 EFSA-GMO-NL-2019-164 (Maize NK603 x T25 x DAS-40278-9)

The Working group discussed the application. Further discussion and additional clarifications from the applicant are needed.

5.7 Scientific opinion on *in vitro* random mutagenesis

The Working group discussed the mandate. Further discussion is needed.

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <https://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ Please be aware that EFSA's Register of Questions (<https://www.efsa.europa.eu/en/register-of-questions>) is unavailable from 21st January. Temporary suspension of the tool is necessary to allow us to implement the launch of our new OpenEFSA portal. We apologize for the inconvenience.



6. AOB

None

7. Next meeting

9 April 2021, TELE/WEB



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 125th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 19 February 2021, TELE/WEB
(Agreed on 25 February 2021)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche and Nils Rostoks
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Ilaria Ciabatti, Marta Cubria Radio
- EFSA:
 - GMO Unit: Paolo Lenzi, Tommaso Raffaello
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 124th Working Group meeting held on 25 January 2021 via TELE/WEB

The minutes of the 124th Working Group meeting held on 25 January 2021 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 Scientific opinion on in vitro random mutagenesis techniques⁵

The Working group discussed the mandate. Further discussion is needed.

6. AOB

None

7. Next meeting

15-16 March 2021

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2020-00445>

SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 124th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 25 January 2021, TELE/WEB
(Agreed on 1 February 2021)**

Participants

■ Working Group Members:

Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Fabien Nogu  , Nils Rostoks and Jose Juan Sanchez Serrano

■ Hearing Experts¹:

– none

■ European Commission and/or Member States representatives:

– DG SANTE: Ilaria Ciabatti and Alexandre Huchelmann

■ EFSA:

– GMO Unit: Silvia Federici, Dafni Maria Kagkli, Anna Lanzoni (item 5.2), Paolo Lenzi, Nikoletta Papadopoulou, Pietro Piffanelli and Tommaso Raffaello

■ Others:

– none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

In addition, the WG experts were reminded about the procedure to follow to declare interests. A guide on "The best practices on ADOI" was part of the meeting documents shared with the experts for future reference.

4. Agreement of the minutes of the 123rd Working Group meeting held on 13 January 2021 via TELE/WEB.

The minutes of the 123rd Working Group meeting held on 13 January 2021 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-DE-2017-141 (Cotton COT102)⁵

The Working group discussed the application. Further discussion and clarification by the applicant are needed.

5.2 EFSA-GMO-DE-2019-157 (LBFLFK canola)⁶

The Working group discussed the application. Further discussion is needed.

5.3 Scientific opinion on in vitro random mutagenesis techniques⁷

The Working group discussed the mandate. Further discussion is needed.

6. AOB

Information on the mandate to assess new sequencing information on cotton DAS-24236-5 x DAS-21Ø23-5, and the EFSA framework contract on DNA sequencing quality check.

7. Next meeting

19 February 2021

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wqs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2017-00271>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00394>

⁷ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2020-00445>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 123rd MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 13 January 2021, TELE/WEB
(Agreed on 22 January 2021)**

Participants

- Working Group Members:
 - Tamas Dalmay, Josep Casacuberta, Philippe Guerche and Nils Rostoks
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Ilaria Ciabatti, Marta Cubria Radio
- EFSA:
 - GMO Unit: Paolo Lenzi and Tommaso Raffaello
- Others:
 - AMU Unit: Irene Pilar Munoz Guajardo

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process.

Certain interests were declared orally by the members before the beginning of the meeting. For further details on the outcome of the screening of the Oral Declaration(s) of Interest made at the beginning of the meeting, please refer to the Annex.

4. Agreement of the minutes of the 122nd Working Group meeting held on 14 December 2020 via TELE/WEB.

The minutes of the 122nd Working Group meeting held on 14 December 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 Scientific opinion on in vitro random mutagenesis techniques⁵

The Working group discussed mandate. Further discussion is needed.

6. AOB

None

7. Next meeting

25 January 2021, online

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <https://www.efsa.europa.eu/en/register-of-questions>



Annex

Interests and actions resulting from the Oral Declaration of Interest done at the beginning of the meeting

With regard to this meeting, Prof. Nils Rostoks declared the following interest: cooperation with the 'Latvian Biomedical Research and Study Center'. In accordance with EFSA's Policy on Independence⁶ and the Decision of the Executive Director on Competing Interest Management⁷, and taking into account the specific matters discussed at the meeting in question, the interest above was not deemed to represent a Conflict of Interest for the expert concerned.

⁶ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

⁷ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 122nd MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 14 December 2020, TELE/WEB
(Agreed on 23 December 2020)**

Participants

- Working Group Members:
 - Tamas Dalmay, Josep Casacuberta, Philippe Guerche and Nils Rostoks
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Ilaria Ciabatti
- EFSA:
 - GMO Unit: Paolo Lenzi, Pietro Piffanelli and Tommaso Raffaello
- Others:
 - AMU Unit: Irene Pilar Munoz Guajardo

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 121st Working Group meeting held on 04 December 2020 via TELE/WEB.

The minutes of the 121st Working Group meeting held on 04 December 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 Scientific opinion on in vitro random mutagenesis techniques⁵

The Working group discussed mandate. Further discussion is needed.

6. AOB

- none

7. Next meeting

13 January 2021, online

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2020-00445>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 121st MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 4 December 2020, TELE/WEB
(Agreed on 4 December 2020)**

Participants

- Working Group Members:
 - Simon Moxon
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - none
- EFSA:
 - GMO Unit: Silvia Federici, Dafni Maria Kagkli, Nikoletta Papadopoulou and Pietro Piffanelli

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 120th Working Group meeting held on 23-24 November 2020 via TELE/WEB.

The minutes of the 120th Working Group meeting held on 23-24 November 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-NL-2019-161 (Maize MON 87429)⁵

The Working group discussed the application. Further discussion is needed.

5.2 EFSA-GMO-NL-2019-163 (Maize DP-023211-2)⁶

The Working group discussed the application. Further discussion and clarification from the applicant are needed.

6. Next meeting

14 December 2020, TELE/WEB

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00628>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00807>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 120th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 23-24 November 2020, TELE/WEB
(Agreed on 4 December 2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Simon Moxon (item 6.1)
Fabien Nogué, Nils Rostoks, and Jose Juan Sanchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Alexandre Huchelmann
- EFSA:
 - GMO Unit: Silvia Federici, Dafni Maria Kagkli, Anna Lanzoni (item 6.2), Paolo Lenzi, Nikoletta Papadopoulou, Pietro Piffanelli, Tommaso Raffaello
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 119th Working Group meeting held on 13 November 2020 TELE/WEB.

The minutes of the 119th Working Group meeting held on 13 November 2020 were agreed⁴.

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-NL-2018-153 (Soybean GMB151)⁵

The Working Group discussed the application. Further discussion is needed.

5.2 EFSA-GMO-NL-2019-159 (Maize DP-202216-6)⁶

The Working Group discussed the application. Further discussion is needed.

5.3 EFSA-GMO-NL-2019-163 (Maize DP-023211-2)⁷

The Working Group discussed the application. Further discussion is needed.

5.4 Scientific opinion on in vitro random mutagenesis techniques⁸

The Working group discussed the development of a protocol for the scientific opinion. Further discussion is needed.

6. AOB

6.1 A scientific publication on event NK603 in maize was discussed.

6.2 Newly expressed protein levels in GMO applications for stacked events were discussed

7. Next meeting

4 December 2020, WEB/TELE

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2018-00781>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00419>

⁷ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00807>

⁸ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2020-00445>



GENETICALLY MODIFIED ORGANISMS UNIT

SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 119th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 13 November 2020, TELE/WEB
(Agreed on 25 November 2020)**

Participants

- Working Group Members:
 - Tamas Dalmay, Philippe Guerche and Nils Rostoks
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Alexandre Huchelmann
- EFSA:
 - GMO Unit: Silvia Federici, Paolo Lenzi, Pietro Piffanelli and Tommaso Raffaello
- Others:
 - AMU Unit: Irene Muñoz-Guajardo

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 118th Working Group meeting held on 13 October 2020 via TELE/WEB.

The minutes of the 118th Working Group meeting held on 13 October 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 Scientific opinion on in vitro random mutagenesis techniques⁵

The Working group discussed the development of a protocol for the scientific opinion. Further discussion is needed.

6. Next meeting

23-24 November 2020, TELE/WEB

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2020-00445>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 118th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 13 October 2020, TELE/WEB
(Agreed on 26 October 2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Simon Moxon (item 5.4), Fabien Nogué, Nils Rostoks, and Jose Juan Sanchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Alexandre Huchelmann, Juliette Marie Margueritte
- EFSA:
 - GMO Unit: Ana Afonso, Silvia Federici, Dafni Maria Kagkli, Paolo Lenzi, Nikoletta Papadopoulou, Konstantinos Paraskevopoulos and Tommaso Raffaello
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 117th Working Group meeting held on 30 September 2020 via TELE/WEB.

The minutes of the 117th Working Group meeting held on 30 September 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-NL-2016-132 (Soybean DAS-81419-2 x DAS-44406-6)⁵

The Working group discussed the application and finalised the Molecular Characterisation section of the draft opinion.

5.2 EFSA-GMO-NL-2019-158 (RF3 Canola Quality *Brassica juncea*)⁶

The Working Group discussed the application. Further discussion and clarifications from the applicant are needed.

5.3 EFSA-GMO-DE-2017-141 (Cotton COT102)⁷

The Working group discussed the spontaneous information submitted by the applicant. Further discussion and clarifications from the applicant are needed.

5.4 EFSA-GMO-NL-2019-161 (Maize MON 87429)⁸

The Working group discussed the additional information submitted by the applicant. Further discussion is needed.

5.5 EFSA-GMO-ES-2018-154 (Cotton GHB811)⁹

The Working group discussed and finalised the Molecular Characterisation section of the draft opinion.

5.6 EFSA-GMO-NL-2015-127 (Maize 1507 x MON 810 x MIR162 x NK603)¹⁰

The Working group discussed and finalised the Molecular Characterisation section of the draft opinion.

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wqs/gmo/wq-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2016-00195>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00412>

⁷ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2017-00271>

⁸ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00628>

⁹ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2018-00808>

¹⁰ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2015-00841>



6. AOB

6.1 Presentation of the EC mandate on in vitro mutagenesis.

The Working group was informed on the mandate, discussed and decided on next steps.

7. Next meeting

13 November 2020, TELE/WEB



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 117th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 30 September 2020, TELE/WEB
(Agreed on 16 October 2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Fabien Nogu , Nils Rostoks, Jose Juan Sanchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Ilaria Ciabatti, Alexandre Huchelmann, Olga Orlova
- EFSA:
 - GMO Unit: Silvia Federici, Dafni Kagkli, Paolo Lenzi, Nikoletta Papadopoulou, Konstantinos Paraskevopoulos and Tommaso Raffaello
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 116th Working Group meeting held on 9 September 2020 by Tele/Web conference.

The minutes of the 116th Working Group meeting held on 9 September 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 Scientific opinion on plants developed using type 1 and type 2 Site-Directed Nucleases and Oligonucleotide Directed Mutagenesis⁵

The Working Group discussed and finalized the text of the opinion.

5.2 EFSA-GMO-RX-017 (Maize MON 88017 x MON 810)⁶

The Working Group did not discuss the application due to time constraints.

5.3 Scientific report on genetically modified plants developed through new genomic techniques⁷

The GMO Unit introduced the content of the report to the Working Group.

6. AOB

None

7. Next meeting

13 October 2020, TELE/WEB

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wqs/gmo/wq-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00297>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00524>

⁷ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2020-00103>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 116th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 9 September 2020, TELE/WEB
(Agreed on 24 September 2020)**

Participants

■ Working Group Members:

- Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Fabien Nogué, Nils Rostoks, Jose Juan Sanchez Serrano, and Simon Moxon (for agenda item 5.2)

■ Hearing Experts¹:

- none

■ European Commission and/or Member States representatives:

- DG SANTE: Alexandre Huchelmann, Olga Orlova

■ EFSA:

- GMO Unit: Silvia Federici, Dafni Kagkli, Paolo Lenzi, Nikoletta Papadopoulou, Konstantinos Paraskevopoulos and Tommaso Raffaello

■ Others:

- none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 115th Working Group meeting held on 15 July 2020 by Tele/Web conference.

The minutes of the 115th Working Group meeting held on 15 July 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 Scientific opinion on plants developed using type 1 and type 2 Site-Directed Nucleases and Oligonucleotide Directed Mutagenesis⁵

The Working Group discussed the opinion. Further discussion is needed.

5.2 EFSA-GMO-NL-2019-161 (Maize MON 87429)⁶

The Working Group discussed the additional information. Further discussion and clarification by the applicant are needed.

5.3 EFSA-GMO-RX-017 (Maize MON 88017 x MON 810)⁷

The Working Group discussed the additional information. Further discussion is needed.

6. AOB

None

7. Next meeting

30 September 2020, TELE/WEB

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wqs/gmo/wq-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00297>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00628>

⁷ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00524>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 115th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 15 July 2020, TELE/WEB
(Agreed on 15 July 2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Fabien Nogué, Nils Rostoks, and Jose Juan Sanchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Ilaria Ciabatti
- EFSA:
 - GMO Unit: Silvia Federici, Dafni Kagkli, Nikoletta Papadopoulou, Konstantinos Paraskevopoulos and Tommaso Raffaello
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 114th Working Group meeting held on 29-30 June 2020 via TELE/WEB.

The minutes of the 114th Working Group meeting held on 29-30 June 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 Scientific opinion on plants developed using type 1 and type 2 Site-Directed Nucleases and Oligonucleotide Directed Mutagenesis⁵

The Working Group discussed the outcome of the public consultation. Further discussion is needed.

6. AOB

An update was provided on the SynbioGMP and NGT mandates.

7. Next meeting

12-13 October 2020, TELE/WEB

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00297>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 114th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 29-30 June 2020, TELE/WEB
(Agreed on 15 July 2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Fabien Nogué, Nils Rostoks, and Jose Juan Sanchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Alexandre Huchelmann
- EFSA:
 - GMO Unit: Silvia Federici, Dafni Maria Kagkli, Nikoletta Papadopoulou, Konstantinos Paraskevopoulos and Tommaso Raffaello
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 113th Working Group meeting held on 19 June 2020 via TELE/WEB.

The minutes of the 113th Working Group meeting held on 19 June 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-NL-2012-109 (Oilseed rape 73496)⁵

The Working Group discussed the application. Further discussion is needed.

5.2 EFSA-GMO-NL-2017-139 (Maize MON 87427 x MON 87460 x MON 89034 x 1507 x MON 87411 x 59122)⁶

The Working group discussed the application and finalised the Molecular Characterisation section of the draft opinion.

5.3 EFSA-GMO-DE-2019-157 (LBFLFK canola)⁷

The Working group discussed the application. Further discussion and additional clarifications from the applicant are needed.

5.4 Scientific opinion on plants developed using type 1 and type 2 Site-Directed Nucleases and Oligonucleotide Directed Mutagenesis⁸

The Working Group discussed the outcome of the public consultation. Further discussion is needed.

6. AOB

6.1 Scientific opinion on the evaluation of existing guidelines for their adequacy for the molecular characterisation and environmental risk assessment (ERA) of genetically modified plants obtained through synthetic biology.

The Working Group was updated on the outcome of the public consultation.

7. Next meeting

15 July 2020, TELE/WEB

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wqs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2012-00617>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2017-00115>

⁷ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00394>

⁸ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00297>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 113th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 19 June 2020, TELE/WEB
(Agreed on 19 June 2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Fabien Nogué, Nils Rostoks, and Jose Juan Sanchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Alexandre Huchelmann
- EFSA:
 - GMO Unit: Silvia Federici, Dafni Kagkli, Nikoletta Papadopoulou, Konstantinos Paraskevopoulos and Tommaso Raffaello
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 112th Working Group meeting held on 25-26 May 2020 in Parma.

The minutes of the 112th Working Group meeting held on 25-26 May 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 Scientific opinion on plants developed using type 1 and type 2 Site-Directed Nucleases and Oligonucleotide Directed Mutagenesis⁵

The Working Group discussed the opinion. Further discussion is needed.

6. AOB

None

7. Next meeting

29-30 June 2020, TELE/WEB

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00297>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 112th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 25-26 May 2020, TELE/WEB
(Agreed on 3 June 2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Simon Moxon, Fabien Nogué, Nils Rostoks, and Jose Juan Sanchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Alexandre Huchelmann
- EFSA:
 - GMO Unit: Silvia Federici, Andrea Gennaro (item 5.3), Dafni Maria Kagkli, Nikoletta Papadopoulou, Konstantinos Paraskevopoulos and Tommaso Raffaello
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 111th Working Group meeting held on 20 May 2020 via TELE/WEB.

The minutes of the 111th Working Group meeting held on 20 May 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-NL-2019-163 (Maize DP-023211-2)⁵

The Working Group discussed the application. Further discussion and clarifications from the applicant are needed.

5.2 EFSA-GMO-NL-2019-164 (Maize NK603 x T25 x DAS-40278-9)⁶

The Working Group discussed the application. Further discussion and clarifications from the applicant are needed.

5.3 EFSA-GMO-NL-2019-159 (Maize DP-202216-6)⁷

The Working Group discussed the application. Further discussion is needed.

5.3 EFSA-GMO-NL-2015-127 (Maize 1507 x MON 810 x MIR162 x NK603)⁸

The Working Group discussed the application. Further discussion is needed.

5.4 EFSA-GMO-DE-2018-149 (Maize Bt11 x MIR162 x MIR604 x MON89034 x 5307 x GA21)⁹

The Working Group discussed the application. Further discussion is needed.

6. AOB

Use of EST database for bioinformatic analysis.

7. Next meeting

19 June 2020, TELE/WEB

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00807>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00808>

⁷ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00419>

⁸ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2015-00841>

⁹ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2018-00292>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 111th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 20 May 2020, TELE/WEB
(Agreed on 20 May 2020)**

Participants

- Working Group Members:
 - Simon Moxon
- Hearing Experts¹:
 - none
- EFSA:
 - GMO Unit: Silvia Federici, Dafni-Maria Kagkli, Nikoletta Papadopoulou

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf



discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 110th Working Group meeting held on 21 April 2020 via TELE/WEB.

The minutes of the 110th Working Group meeting held on 21st April 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-NL-2019-161 (Maize MON 87429)⁵

The Working Group discussed the application. Further discussion and clarification by the applicant are needed.

5.2 EFSA-GMO-NL-2019-163 (Maize DP-023211-2)⁶

The Working Group discussed the application. Further discussion and clarification by the applicant are needed.

5.3 EFSA-GMO-NL-2019-164 (Maize NK603xT25xDAS-40278-9)⁷

The Working Group discussed the application. Further discussion is needed.

6. AOB

None

7. Next meeting

25-26 May 2020, TELE/WEB

⁴ <http://www.efsa.europa.eu/sites/default/files/wqs/gmo/wq-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00628>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00807>

⁷ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00808>



GENETICALLY MODIFIED ORGANISMS UNIT

SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 110th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 21 April 2020, TELE/WEB
(Agreed on 29 April 2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Fabien Nogué, Nils Rostoks, and Jose Juan Sanchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Alexandre Huchelmann
- EFSA:
 - GMO Unit: Silvia Federici, Dafni Kagkli, Nikoletta Papadopoulou, Konstantinos Paraskevopoulos and Tommaso Raffaello
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 109th Working Group meeting held on 30-31 March 2020 in Parma.

The minutes of the 109th Working Group meeting held on 30-31 March 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-NL-2018-150 (Maize DP4114 x MON810 x MIR604 x NK603)⁵

The Working Group discussed the application. Further discussion and clarification by the applicant are needed.

6. AOB

None

7. Next meeting

25-26 May 2020, TELE/WEB

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2018-00370>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 109th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 30-31 March 2020, TELE/WEB
(Agreed on 14 April 2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Fabien Nogu , Nils Rostoks, and Jose Juan Sanchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Alexandre Huchelmann, Ilaria Ciabatti
- EFSA:
 - GMO Unit: Silvia Federici, Andrea Gennaro, Antonio Fernandez Dumont, Nikoletta Papadopoulou, Konstantinos Paraskevopoulos, Tommaso Raffaello and Elisabeth Waigmann
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

This meeting, originally scheduled as a physical meeting, was converted into a teleconference to avoid traveling to EFSA in line with the measures established to reduce the risk of coronavirus infection.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



2. Adoption of agenda

The agenda was adopted without changes.

3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 108th Working Group meeting held on 10 February 2020 via TELE/WEB.

The minutes of the 108th Working Group meeting held on 10 February 2020 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-NL-2019-161 (Maize MON 87429)⁵

The Working Group discussed the application. Further discussion and clarification by the applicant are needed.

5.2 EFSA-GMO-DE-2017-142 (Maize MZIR098)⁶

The Working Group discussed the application and finalised the Molecular Characterisation section of the draft opinion.

5.3 EFSA-GMO-NL-2016-132 (Soybean DAS-81419-2 x DAS-44406-6)⁷

The Working Group discussed the application. Further discussion is needed.

5.3 EFSA-GMO-NL-2015-126 (soybean MON 87705 x MON 87708 x MON 89788)⁸

The Working Group discussed the application and finalised the Molecular Characterisation section of the draft opinion.

5.4 Scientific opinion on plants developed using type 1 and type 2 Site-Directed Nucleases and Oligonucleotide Directed Mutagenesis⁹

The Working Group discussed and finalised the scientific opinion.

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/wg-applications-molecular-characterisation-2018-2021.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00628>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2017-00398>

⁷ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2016-00195>

⁸ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2015-00548>

⁹ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00297>



6. AOB

None

7. Next meeting

25-26 May 2020, TELE/WEB



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 108th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 10 February 2020, TELE/WEB
(Agreed on 10 February 2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Fabien Nogué, Nils Rostoks and Jose Juan Sánchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Beatrice Marquez-Garrido (for item 5.1)
- EFSA:
 - GMO Unit: Nikoletta Papadopoulou, Konstantinos Paraskevopoulos and Tommaso Raffaello
- Others:
 - none

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

2. Adoption of agenda

The agenda was adopted without changes.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 107th Working Group meeting held on 27-28 January 2020, Parma

The minutes of the 107th Working Group meeting held on 27-28 January 2020 were agreed⁴

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-NL-2015-126 (Soybean MON 87705 x MON 87708 x MON 89788) ⁵

The Working Group discussed the application and finalised the Molecular Characterisation section of the draft opinion.

5.2 Scientific Opinion on plants developed using type 1 and type 2 Site-Directed Nucleases and Oligonucleotide Directed Mutagenesis⁶

The Working Group discussed the draft opinion. Further discussion is needed.

6. Next meeting

30-31 March 2020, Parma

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wgs/gmo/gmomc2019.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2015-00548>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00297>



SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS

MINUTES OF 107th MEETING OF THE WORKING GROUP ON MOLECULAR CHARACTERISATION

**Held on 27-28 January 2020, Parma
(Agreed on 5/02/2020)**

Participants

- Working Group Members:
 - Josep Casacuberta, Tamas Dalmay, Philippe Guerche, Jan Hejatko, Simon Moxon (TELE - items 5.1 and 5.4), Fabien Nogué, Nils Rostoks, and Jose Juan Sanchez Serrano
- Hearing Experts¹:
 - none
- European Commission and/or Member States representatives:
 - DG SANTE: Alexandre Huchelmann
- EFSA:
 - GMO Unit: Silvia Federici, Andrea Gennaro (item 5.6), Nikoletta Papadopoulou, Konstantinos Paraskevopoulos, Tommaso Raffaello
- Others:
 - None

1. Welcome and apologies for absence

The Chair welcomed the participants. No apologies were received.

¹ As defined in Article 17 of the Decision of the Executive Director concerning the selection of members of the Scientific Committee, the Scientific Panels, and the selection of external experts to assist EFSA with its scientific work:
<http://www.efsa.europa.eu/en/keydocs/docs/expertselection.pdf>.



2. Adoption of agenda

The agenda was adopted without changes.

3. Declarations of Interest of Working Groups members

In accordance with EFSA's Policy on Independence² and the Decision of the Executive Director on Competing Interest Management³, EFSA screened the Annual Declarations of Interest filled out by the Working Group members invited to the present meeting. No Conflicts of Interest related to the issues discussed in this meeting have been identified during the screening process, and no interests were declared orally by the members at the beginning of this meeting.

4. Agreement of the minutes of the 105th and 106th Working Group meetings held on 17 December 2019, TELE/WEB

The minutes of the 105th and 106th Working Group meetings held on 17 December 2019 were agreed.⁴

5. Scientific topic(s) for discussion

5.1 EFSA-GMO-NL-2015-126 (Soybean MON 87705 x MON 87708 x MON 89788)⁵
The Working Group discussed the application. Further discussion is needed.

5.2 EFSA-GMO-NL-2016-138 (Brassica napus MS11)⁶
The Working Group discussed the application and finalised the Molecular Characterisation section of the draft opinion.

5.3 EFSA-GMO-NL-2018-151 (Maize MON 89034 x 1507 x MIR162 x NK603 x DAS-40278-9)⁷
The Working Group discussed the application. Further discussion is needed.

5.4 EFSA-GMO-DE-2019-157 (LBFLFK canola)⁸
The Working Group discussed the application. Further discussion and clarification from the applicant are needed.

5.5 EFSA-GMO-NL-2019-159 (159 Maize DP-202216-6)⁹
The Working Group discussed the application. Further discussion is needed.

² http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/policy_independence.pdf

³ http://www.efsa.europa.eu/sites/default/files/corporate_publications/files/competing_interest_management_17.pdf

⁴ <http://www.efsa.europa.eu/sites/default/files/wqs/gmo/qmomc2019.pdf>

⁵ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2015-00548>

⁶ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2016-00857>

⁷ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2018-00457>

⁸ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00394>

⁹ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00419>



5.6 Mandate on plants developed using type 1 and type 2 Site-Directed Nucleases and Oligonucleotide Directed Mutagenesis¹⁰

The Working Group discussed the mandate. Further discussion is needed.

6. AOB

None

7. Next meeting

10 February 2020 (TELE), Parma

¹⁰ <http://registerofquestions.efsa.europa.eu/roqFrontend/questionLoader?question=EFSA-Q-2019-00297>