

**MINUTES OF THE 47<sup>TH</sup> PLENARY MEETING OF THE  
SCIENTIFIC PANEL ON GENETICALLY MODIFIED ORGANISMS  
HELD ON 28-29 JANUARY 2009 IN PARMA, ITALY  
(ADOPTED ON 11 MARCH 2009)**

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## PARTICIPANTS

### *GMO Panel:*

Hans Christer Andersson, Arpaia Salvatore, Detlef Bartsch<sup>1</sup>, Josep Casacuberta, Patrick du Jardin, Lieve Herman, Sirpa Kärenlampi, Jozsef Kiss, Gijs Kleter, Ilona Kryspin-Sorensen, , Harry Kuiper (Chair), Joe Perry, Annette Pötting, Joachim Schiemann<sup>2</sup>, Willem Seinen, Jeremy Sweet and Jean-Michel Wal.

<sup>1</sup> Only present on 28 January 2009

<sup>2</sup> Only present as from the afternoon of 28 January 2009

40 *EFSA*:  
41 Per Bergman, Anna Christodoulidou, Zoltán Divéki, Andrea Germini, Ana Gomes, Karine  
42 Lheureux, Sylvie Mestdagh, Claudia Paoletti, Reinhilde Schoonjans, Elisabeth Waigmann, Mara  
43 Todeschi, Nancy Podevin.

44  
45 *Spanish Competent Authority*<sup>3</sup>:  
46 Felix Ortego Alonso and Lucia Roda of the Spanish Competent Authority (Directive 2001/18/EC)

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48 *European Commission*:  
49 Sébastien Goux and Michael Walsh (DG SANCO); Helen Clayton, Ioana Ispas and Bernadette  
50 Murray (DG ENV)

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53 **APOLOGIES**

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55 *GMO Panel*: Howard Davies, Niels Bohse Hendriksen, Ingolf Nes, Nick Panopoulos  
56 *European Commission*: Sabine Pelsser (DG SANCO)

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61 **1. WELCOME AND APOLOGIES FOR ABSENCE**

62 The Chair opened the meeting and welcomed all. Apologies for absence were received from four  
63 Panel members and one colleague from DG SANCO as mentioned above.

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65 **2. ADOPTION OF THE AGENDA**

66 The agenda was adopted as proposed.

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69 **3. DECLARATION OF INTERESTS**

70 Panel members were invited to declare possible interests on topics included on the agenda.  
71 Declarations have been registered through the standard form submitted by the Panel members.

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74 **4. ADOPTION OF THE MINUTES OF THE 46<sup>TH</sup> PLENARY MEETING HELD ON 3-4**  
75 **DECEMBER 2008**

76 The minutes of the 46<sup>th</sup> Plenary meeting (3-4 December 2008) were adopted after some corrections  
77 were made and are published at:

78 [http://www.efsa.europa.eu/EFSA/efsa\\_locale-1178620753812\\_1211902199319.htm](http://www.efsa.europa.eu/EFSA/efsa_locale-1178620753812_1211902199319.htm)

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82 **5. DISCUSSION AND POSSIBLE ADOPTION OF OPINIONS ON:**

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<sup>3</sup> Only present in the Morning of 29 January 2009

87      **5.1. Maize Bt11 and derived food and feed (EFSA-GMO-RX-Bt11 under Regulation (EC)**  
88      **No 1829/2003; EFSA-Q-2007-146)**

90      *Introduction*

93      The GMO Panel was requested in accordance with Articles 8(1)(b) and 20(1)(b) of Regulation (EC)  
94      No 1829/2003 to provide a scientific opinion for renewal of the authorisation for continued  
95      marketing of existing products produced from the genetically modified maize Bt11 for food and  
96      feed uses (EFSA-GMO-RX-Bt11).

97      The assessment presented was based on the information provided by the applicant in the renewal  
98      application EFSA-GMO-RX-Bt11 and on the additional information provided by the applicant on  
99      request of the Panel.

100     Maize Bt11 was developed to provide protection against specific lepidopteran pests. The maize also  
101     contains a gene providing tolerance to the herbicide glufosinate ammonium.

102     The opinion of the GMO Panel corresponds to the safety assessment report as referred to in Articles  
103     6(4) and 18(4) of Regulation (EC) No 1829/2003 and will be part of the overall opinion in  
104     accordance with Articles 6(5) and 18(5).

105     *Discussion*

108     In addition to the information available in the original application and that was taken into account  
109     by the GMO Panel in its previous opinion (EFSA, 2005), the applicant provided updated  
110     information on the utilisation of maize Bt11 in Europe and an estimation of human and animal  
111     exposure to the newly expressed proteins.

112     The applicant also provided a report of the peer reviewed scientific literature on Bt11 that has  
113     become available since the previous opinion of the GMO Panel. The Panel also considered  
114     additional, recently published literature. An extensive survey has been made including not only  
115     maize Bt11 but also other GM events in which the Cry1Ab insecticidal protein has been inserted,  
116     e.g. Bt 176 and maize MON 810. According to the applicant, in maize Bt11, the first 615 amino  
117     acid residues of the full length Cry1Ab protein are expressed while a longer Cry1Ab protein is  
118     expressed in maize MON 810. The GMO Panel has taken into consideration all the published  
119     information while assessing the truncated newly expressed Cry1Ab protein in maize Bt11. The  
120     publications analysed pertained to compositional analysis, toxicology and allergenicity and  
121     nutritional equivalence.

123     The impacts of diets containing the GM material on performances of various target animals, e.g.  
124     broilers, calves, lactating cows, sheep, piglets and finishing pigs and fish, were analysed in feeding  
125     studies. The overall performances were similar in animals fed the GM crops as compared to those  
126     that received the non-GM counterpart. No intact Cry1Ab protein or gene was detected in tissues of  
127     target animals fed diets containing Bt11 maize.

129     In conclusion, new information from this updated literature review and from additional studies  
130     performed by the applicant does not prompt the Panel to change its previous opinion that Bt11  
131     maize is as safe and as nutritious as the non-GM counterpart.

134     *Adoption*

136 The opinion was adopted unanimously by the Panel. The scientific opinion is published on the following  
137 EFSA website: [http://www.efsa.europa.eu/en/science/gmo/gmo\\_opinions.html](http://www.efsa.europa.eu/en/science/gmo/gmo_opinions.html)

138 The overall opinion, including the table containing the responses of the Panel to Member States is  
139 published in the Register of Questions under EFSA-Q-2007-146:

140 <http://registerofquestions.efsa.europa.eu/roqFrontend/questionsList.jsf>

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144 **5.2. Maize LY038 and derived food and feed (EFSA-GMO-NL-2006-31 under Regulation**  
145 **(EC) No 1829/2003; EFSA-Q-2006-018)**

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147 The GMO Panel was requested to carry out a scientific assessment of the genetically modified  
148 maize LY038 for food and feed uses and import and processing in accordance with Articles 6(6)  
149 and 18(6) of Regulation (EC) No 1829/2003 (EFSA-GMO-NL-2006-31).

150

151 The risk assessment was based on the information provided in the application EFSA-GMO-NL-  
152 2006-31, additional information provided by the applicant and the scientific comments submitted  
153 by the Member States.

154

155 Event LY038 was developed to produce a lysine-enriched maize by the introduction, of the  
156 *Corynebacterium glutamicum* *cordapA* gene encoding the dihydrodipicolinate synthase (cDHDPS).  
157 DHDPS is a major rate-limiting enzyme for lysine biosynthesis in plants and bacteria. Bacterial  
158 cDHDPS enzyme is less sensitive to lysine feedback inhibition than the corresponding plant  
159 enzyme (DHDPS) and therefore the overall lysine production is expected to be higher in LY038  
160 than in the conventional counterpart. During the development of maize LY038, the Cre-*lox*  
161 recombination system was used to remove the *nptII* cassette located between *loxP* sites.

162 The application has been discussed with respect to the use of the negative segregant as comparator.  
163 The GMO Panel has decided to draft a new set of questions to the applicant.

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165 **6. DISCUSSION OF OPINION ON:**

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167 **6.1. Mandate for a consolidated opinion on use of antibiotic resistant genes (ARM) used as**  
168 **marker genes in genetically modified plants (EFSA-Q-2008-411)**

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170 On 21 May 2008, the European Food Safety Authority (EFSA) received the request by the  
171 European Commission (DG SANCO and DG ENV reference: D/510274) for a consolidated opinion  
172 on the use of ARM genes as marker genes in genetically modified plants.

173 Information relevant to the issue of ARM genes used as marker genes in genetically modified plants  
174 is currently under review within EFSA in collaboration with the European Medicines Agency  
175 (EMEA), the European Centre for Disease Prevention and Control (ECDC) and other invited  
176 experts. Such consolidated opinion requires additional technical discussions and the deadline to  
177 deliver the opinion has been extended until March 2009.

178

179 Progress of the work was presented to the GMO Panel by Stef Bronzwaer (Deputy Head of  
180 Scientific Cooperation Unit, EFSA and Secretary of the Joint Working Group of experts from the  
181 GMO and the BIOHAZ Panels). A drafting group processed the contributions from the different

182 Panels and further elaborated the draft document, which has been sent to the BIOHAZ Panel and  
183 the GMO Panel for further consideration. The drafting group will meet on 12 February 2009 and  
184 the Joint Working Group on 23-24 February 2009, to finalise the document to be submitted for  
185 possible adoption at the plenary meetings of both Panels in March.

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188 **7. UPDATE ON APPLICATIONS RECEIVED UNDER REGULATION (EC) NO 1829/2003 AND**  
189 **REGULATION (EC) NO 1831/2003**

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192 **7.1 Ongoing applications**

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194 • **Maize MON810 (EFSA-GMO-RX-MON810 ; EFSA-Q-2007-153 including cultivation)**

195 Two delegates of the Spanish Competent Authority gave a presentation on the report of the  
196 Environmental Risk Assessment for this application in accordance with Article 6.3(c) and  
197 18.3 (c) or Regulation (EC) No 1829/2003. The Panel thanked the Spanish Competent  
198 Authority for the high quality report. The report of the Spanish Competent Authority will  
199 be included as an annex to the final opinion adopted by the Panel. The Panel identified  
200 questions to the applicant for additional information with respect to the environmental risk  
201 assessment; these questions will be sent out after further consultation.

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205 **8. NEW REQUEST TO EFSA: DISCUSSION AND ADOPTION OF MANDATES**

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207 **8.1. Applications under Regulation (EC) No 1829/2003**

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209 Application for authorisation of genetically modified H7-1 Roundup Ready® Sugar beet for food  
210 and feed uses and cultivation was received through Germany (EFSA-GMO-DE-2008-63) (EFSA-  
211 Q-2008-782).

212

213 Competent Authorities of the Member States within the meaning of Directive 2001/18/EC as  
214 foreseen by Articles 6 (4) and 18 (4) of Regulation (EC) No 1829/2003 will be consulted by EFSA  
215 once the above mentioned application is valid. On its own initiative EFSA has broadened this  
216 consultation also to Member States National Competent Authorities under Regulation (EC) No  
217 1829/2003 and other national risk assessment bodies. The comments will be considered during the  
218 scientific evaluation by the EFSA GMO Panel of the risk assessment performed by the applicant.

219

220 The summary of the application EFSA-GMO-DE-2008-63, as well as the information on the current  
221 status can be found through the following webpage leading to EFSA's Register of Questions:  
222 <http://registerofquestions.efsa.europa.eu/roqFrontend/questionsList.jsf>.

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226 **8.2. Applications under Regulation (EC) No 1831/2003**

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228 - Request for a scientific opinion on supplementary information about the enzyme preparation of  
229 trade name ECONASE XT L and ECONASE XT P (EFSA-Q-2008-775). This request is related to  
230 the application for Econase XT L and Econase XT P (endo-1, 4-beta-xylanase) for chickens and  
231 turkeys for fattening, chickens reared for laying, turkeys reared for breeding and piglets (weaned)

232 and as zootechnical additives (enzymes) that was received through Finland under Regulation (EC)  
233 No 1831/2003 (EFSA-Q-2007-120).

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236 - Application for authorisation of the enzyme preparation FINASE EC (6-phytase) for chickens for  
237 fattening, chickens reared for laying, laying hens, turkeys for fattening, turkeys reared for breeding,  
238 piglets (weaned), fattening pigs, sows, ducks and other minor species (i.e., geese, quail, pigeons,  
239 pheasants and other game birds) (EFSA-Q-2008-378) (FEEDAP-GMO co-opinion).

240 The summary of the application, as well as the information on the current status can be found  
241 through the following webpage leading to EFSA's Register of Questions:  
242 <http://registerofquestions.efsa.europa.eu/roqFrontend/questionsList.jsf>.

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246 **9. FEEDBACK FROM THE COMMISSION**

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248 **Information on future activities concerning the GM plant Guidance (food/feed section)**

249 The Panel was updated about the progress of the GM plant Guidance Document (food/feed section).  
250 The Commission and the Member States have met several times to discuss the future guidance on  
251 the basis of the draft EFSA updated Guidance Document with the public comments considered by  
252 the Commission. The text has been further developed in cooperation with the working groups on  
253 molecular characterization and food & feed. The revised version was sent to the Member States in  
254 January 2009, at the fourth meeting, and the Member States were satisfied with the process. EFSA  
255 will be formally consulted in about two weeks.

256 **10. DATES OF FUTURE MEETINGS**

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258 Dates for Plenary meetings in 2010 were proposed to the Panel. Plenary meeting dates for 2010  
259 have been scheduled:

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261 **27-28 January 2010**

262 **10-11 March 2010**

263 **28-29 April 2010**

264 **26-27 May 2010**

265 **30 June and 01 July 2010**

266 **08-09 September 2010**

267 **20-21 October 2010**

268 **01-02 December 2010**

269

270 **11. ANY OTHER BUSINESS**

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272 **Guidance for the risk assessment of GM animals (EFSA-Q-2008-069)**

273 The Panel was updated on the progress for the broadened mandate on GM animals.

274 With regard to the food/feed part of the future EFSA Guidance for GM animals, the draft guidance  
275 recently published by the US mainly focuses on procedural aspects, on molecular characterization  
276 and food/feed topics. The EFSA Working Group on food/feed has been scheduled for February 18.

277 With regard to the Environmental part of the future EFSA Guidance for GM animals, a call for  
278 tender has been published on GM fish with a new deadline for 23 January 2008. Three offers have  
279 been received and are currently being evaluated.

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281 **Bilateral meeting on Austrian Safeguard clause measure:**

282 The Panel was informed about the progress for the organization of the bilateral meeting on  
283 Safeguard clause invoked by the Austrian Authorities on Maize MON863 and oilseed rapes GT73  
284 and Ms8/Rf3. The Austrian delegation did not accept the invitation of the 10-11 February due to  
285 other obligations and March 10 will be proposed as a new date for this meeting.