

## COMPLETE

Collector: BCH website (Website Survey)
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Time Spent: Over a week

## PAGE 1

Q1: Type of submission: Party	
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### PAGE 2

Q2: Name of the Party:	Belarus		
Q3: Person submitting this questionnaire:			
Full Name:	⊟ena Makeyeva		
Email Address:	E.Makeyeva@igc.bas-net.by, biosafety.by@gmail.com		
Q4: Institution(s) or organization(s) that participated in the testing:	Government authority(ies), Academic institution(s)		
Q5: Context in which the testing was conducted	Group event(s) (e.g., workshop, training course, meeting)		
Q6: Actual case(s) of risk assessment used in the testing: Note: Please enter the hyperlinks of BCH Risk Assessment Records (e.g. http://bch.cbd.int/database/record.shtml?documentid=104904 and http://bch.cbd.int/database/record.shtml?documentid=104905) or other publicly accessible web pages containing the technical and scientific data of the actual cases of risk assessment used in the testing.			
Records (e.g. http://bch.cbd.int/database/record.shtml?docu http://bch.cbd.int/database/record.shtml?documentid=104905	mentid=104904 and b) or other publicly accessible web pages containing the		
Records (e.g. http://bch.cbd.int/database/record.shtml?docurhttp://bch.cbd.int/database/record.shtml?documentid=104905	mentid=104904 and b) or other publicly accessible web pages containing the		
Records (e.g. http://bch.cbd.int/database/record.shtml?docurhttp://bch.cbd.int/database/record.shtml?documentid=104905 technical and scientific data of the actual cases of risk asses	nentid=104904 and b) or other publicly accessible web pages containing the sment used in the testing. http://bch.cbd.int/database/record.shtml?		

Q8: Name of the other Government:	Respondent skipped this question
Q9: Person submitting this questionnaire:	Respondent skipped this question
Q10: Institution(s) or organization(s) that participated in the testing:	Respondent skipped this question
Q11: Context in which the testing was conducted	Respondent skipped this question
Q12: Actual case(s) of risk assessment used in the testing: Note: Please enter the hyperlinks of BCH Risk Assessment Records (e.g. http://bch.cbd.int/database/record.shtml? documentid=104904 and http://bch.cbd.int/database/record.shtml? documentid=104905) or other publicly accessible web pages containing the technical and scientific data of the actual cases of risk assessment used in the testing.	Respondent skipped this question

Q13: In what language was the Guidance tested?

Respondent skipped this question

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Q14: Name of the organization:	Respondent skipped this question
Q15: Person submitting this questionnaire:	Respondent skipped this question
Q16: Institution(s) or organization(s) that participated in the testing:	Respondent skipped this question
Q17: Context in which the testing was conducted	Respondent skipped this question
Q18: Actual case(s) of risk assessment used in the testing: Note: Please enter the hyperlinks of BCH Risk Assessment Records (e.g. http://bch.cbd.int/database/record.shtml? documentid=104904 and http://bch.cbd.int/database/record.shtml? documentid=104905) or other publicly accessible web pages containing the technical and scientific data of the actual cases of risk assessment used in the testing.	Respondent skipped this question
Q19: In what language was the Guidance tested?	Respondent skipped this question

### PAGE 5

Q20: Would you like to submit an evaluation of the following section of the Guidance: Part I: The Roadmap for Risk Assessment

Yes

(no label) Agree	Q21: This section of the Guidance is practical.1		
	(no label)	Agree	

Q22: Would you like to suggest improvements to this section to increase its practicality? If so, please indicate the line numbers and explain which improvements could be made:

178-179 - The Guidance is worked out in such a way that it is not prescriptive in character and is devoid of particular recipes and prescriptive examples for assessing risks. The Guidance is rather difficult to be used as a training tool for unexperienced experts therefore. It most likely is a good tool for already trained experts. Also we propose to arrange terms in glossary in alphabetic order. Each term should be described as full as possible in clear manner. So, we would like to suggest the following text for lines 178-179: "...reviewing risk assessment and as basic tool for developing training modules on risk assessment process (procedure)".

193 - We propose to make the following correction: "...acceptable and/or manageable..."

199 - We would like that for simplicity of perception such concepts as "protection goals" and other ones were not only interpreted in the section "Use of Terms" but also particular examples or references to the examples illustraiting well the concepts were given just after the definition in the text.

453-456 - We think it is necessary to include information wherther target gene is expressed in a certain part of a plant (e.g. in tubers) or in all the plant parts with indication of the expression level. It is desirable to include figures illustrating instrument readings, for example, the gene expression level, insertion sites, copy number, PCR results, verifying stability and integrity of insertion. It is desirable also to give references to analogous scientific research and tests, if any, or to indicate them as "know-how".

519-522 - It would be fruitful to give an example of quantitative determination of uncertainty. The same thing could be made in the text of lines 580-582.

2030-2031 - In our opinion, it is unfortunate wording of the term "antagonism". We suggest to use the term which expresses an ecological sense of this term relevant to LMO and biodiversity, namely: "Antagonism - relationship of two (or more) species of alive organisms when individuals of one species negatively influence on individuals of other species as competition for use of the same ecological niche resulting in displacement (partly or in full) of competitors by one species".

2064-2065 - It is desirable to clarify the definition "cumulative effect". For example, the cumulative effect is the effect (impact), enhanced as a result of a joint or repeated influence of LMOs or their products on the receiving environment. Effect of accumulated exposure.

209-211 - Данное руководство не носит обязательного характера и лишено конкретных указаний и предписывающих примеров осуществления оценки риска. В силу этого руководство достаточно трудно использовать в качестве средства обучения на начальных этапах подготовки экспертов. Скорее всего это хороший инструмент для уже подготовленных экспертов. Для обучения, на наш взгляд, опираясь на данное руководство, следует подготовить специальное пособие (учебный модуль) с детальным разъяснением используемых терминов. Поэтому предлагаем изложить строки 21--211 в следующей реакции:"...оценок рисков или их анализе, а также использовать как основу для разработки обучающих модулей в рамках проведения мероприятий по созданию потенциала".

213-217 - Для более ясного понимания текста русскоязычными специалистами предлагаем сделать в нем следующие правки: "...к оценке рисков в отношении всех видов ЖИО и предполагаемого использования их в рамках сферы действия и цели Протокола. Данный документ разработан преимущественно на основе полученного и накопленного к настоящему времени опыта в области оценок экологических рисков ЖИО, относящихся к сельскохозяйственным растениям.

229 - Внести следующую редакционную правку: "...оцениваемый риск приемлемым и/или регулируемым..."

- 230 Внести следующую редакционную правку: "...аспекты неопределенности. Оценки рисков служат основанием для принятия решений в отношении ЖИО".
- 237 Для простоты восприятия хотелось бы, чтобы такие понятия, как "цели защиты" и др., были не только подробнее объяснены в разделе "Использование терминов", но и даны конкретные примеры либо ссылки на примеры, хорошо иллюстрирующие данные понятия, сразу после их использования в тексте.
- 262 Внести следующую редакционную правку:"...рассматриваемой информации, а также способов выявления и описания степеней неопределенности..." (выражение "описание вопросов неопределенности" здесь некорректно. Неопределенность имеет вероятностный характер, который может быть выражен степенью этой неопределенности).

521-523 - Дать примеры к используемым понятиям.

- 627-628 Привести ссылку на пример построения концептуальных моделей при оценке риска.
- 643 Привести ссылку на пример количественного выражения вероятности. То же для 716, 770.
- 549 553 Включить информацию о том, экспрессируется ли целевой ген в определенной части растения (например, в клубнях) или во всех частях растения с указанием уровня экспрессии. Ж елательно включить рисунки, иллюстрирующие показания приборов, например, уровень экспрессии, сайты встраивания, число копий, результаты ПЦР, подтверждающие стабильность и целостность вставки. Ж елательно дать ссылки на аналогичные научные исследования и испытания, если таковые есть, или указать, что это "ноу-хау".

1100, 1101, 1102, 1103 - В данных предложениях идет повторение. Для русскоязычных специалистов не понятно, что такое "антипитательные факторы". Предлагаем использовать термин "антиметаболиты", используемый в русскоязычной литературе.

2524, 2525 - По нашему мнению дана неудачная формулировка понятия "антагонизм". Предлагаем следующий вариант разъяснения термина, как имеющего отношение к ЖИО и биоразнообразию: "Антагонизм - взаимодействие двух (и более) видов живых организмов, при котором особи одного вида негативно влияют на особей другого вида при конкуренции за занятие одной и той же экологической ниши, частично или полностью вытесняя из нее конкурентов".

2564-2565 - Желательно уточнить формулировку термина "кумулятивный эффект". Например, кумулятивный эффект - это эффект (действие), усиленный в результате совместного или многократного действия ЖИО или их продуктов в принимающей среде; накопление и суммирование этого действия.

Q23: This section of the Guidance is useful or has utility	Q23: This	s section of t	the Guidance i	is useful or	has utility.2
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(no label) Strongly Agree

Q24: Would you like to suggest improvements to this section Respondent skipped this question to increase its usefulness/utility? If so, please indicate the line numbers and explain which improvements could be made:

### Q25: This section of the Guidance is consistent with the Cartagena Protocol on Biosafety.3

(no label) Agree

Q26: Would you like to suggest improvements to this section to increase its consistency with the Protocol? If so, please indicate the line numbers and explain which improvements could be made:

Moreover it should be noted that Article 15 of the Cartagena Protocol on Biosafety provides that risk assessment is conducted for determining and evaluating potential adverse effects of LMOs not only on conservation and sustainable use of biological diversity but in view of risk to human health. We would like to emphasize the importance of LMO risk assessment to human health and the necessity for the maximum coverage of the issues which should be taken into consideration by experts when conducting such risk assessment. We propose to develop a separate Guidance on the issues of LMO risk assessment to human health.

Руководство согласуется с Картахенским протоколом по биобезопасности. Вместе с тем следует отметить, что в Статье 15 Картахенского протокола определено, что оценка риска проводится с целью определения и оценки возможного неблагоприятного воздействия ЖИО не только на сохранение и устойчивое использование биологического разнообразия, но и с учетом риска для здоровья человека. Мы хотели бы отметить важность оценки риска ЖИО на здоровье человека и необходимость максимального освещения вопросов, которые должны быть учтены экспертами при проведении указанной оценки рисков. Предлагаем разработать отдельное "Руководство по оценке рисков ЖИО для здоровья человека". Стоит учесть тот факт, что людей (общественность) очень беспокоит проблема влияния ГМО именно на их здоровье.

### Q27: This section of the Guidance takes into account past and present experiences with LMOs.4

(no label) Strongly Agree

Q28: Would you like to suggest improvements to this section in order to better take into account past and present experiences with LMOs? If so, please indicate the line numbers and explain which improvements could be made:

Respondent skipped this question

### Q29: Here you may provide further details to explain your answers in evaluating this section of the Guidance:

The general conclusion of the guidance testing: Road map is an integral and comprehensive guidance and a reference material to concentrate experts' attention on main important issues which should be taken into consideration when conducting risk assessment and which may be missed. For example, it is absolutely right that in lines 453-456 emphasis is put on both intentional and unintentional genetic products, emergence and effect of which are frequently not taken into consideration.

Общий вывод по тестированию Дорожной карты руководства следующий: Дорожная карта является целостным и всеобъемлющим руководством и справочным материалом для того, чтобы акцентировать внимание экспертов на основных и важных вопросах, которые надо учесть при проведении оценок рисков и которые могут быть упущены. Так, например, в строках 552-553 очень правильно сделан акцент на уровни экспрессии генов, а также на преднамеренные и непреднамеренные генные продукты, появление и влияние которых часто не принимается во внимание.

#### PAGE 7

Q30: Would you like to submit an evaluation of the following section of the Guidance: Part II: Specific types of LMOs or Traits - Risk assessment of LMOs with stacked genes or traits

No

### PAGE 8

Q31: This section of the Guidance is practical.1

Respondent skipped this question

Q32: Would you like to suggest improvements to this section Respondent skipped this question to increase its practicality? If so, please indicate the line numbers and explain which improvements could be made:

Q33: This section of the Guidance is useful or has utility.2	Respondent skipped this question
Q34: Would you like to suggest improvements to this section to increase its usefulness/utility? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q35: This section of the Guidance is consistent with the Cartagena Protocol on Biosafety.3	Respondent skipped this question
Q36: Would you like to suggest improvements to this section to increase its consistency with the Protocol? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q37: This section of the Guidance takes into account past and present experiences with LMOs.4	Respondent skipped this question
Q38: Would you like to suggest improvements to this section in order to better take into account past and present experiences with LMOs? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q39: Here you may provide further details to explain your answers in evaluating this section of the Guidance:	Respondent skipped this question

### PAGE 9

Q40: Would you like to submit an evaluation of the following section of the Guidance: Part II: Specific types of LMOs or Traits - Risk assessment of LM crops with tolerance to abiotic stress

No

Q41: This section of the Guidance is practical.1	Respondent skipped this question
Q42: Would you like to suggest improvements to this section o increase its practicality? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q43: This section of the Guidance is useful or has utility.2	Respondent skipped this question
Q44: Would you like to suggest improvements to this section o increase its usefulness/utility? If so, please indicate the ine numbers and explain which improvements could be made:	Respondent skipped this question
Q45: This section of the Guidance is consistent with the Cartagena Protocol on Biosafety.3	Respondent skipped this question
Q46: Would you like to suggest improvements to this section o increase its consistency with the Protocol? If so, please ndicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q47: This section of the Guidance takes into account past and present experiences with LMOs.4	Respondent skipped this question

Q48: Would you like to suggest improvements to this section in order to better take into account past and present experiences with LMOs? If so, please indicate the line numbers and explain which improvements could be made:

Q49: Here you may provide further details to explain your answers in evaluating this section of the Guidance:

Respondent skipped this question

#### PAGE 11

Q50: Would you like to submit an evaluation of the following section of the Guidance: Part II: Specific types of LMOs or Traits - Risk assessment of LM mosquitoes

#### PAGE 12

Q51: This section of the Guidance is practical.1	Respondent skipped this question
Q52: Would you like to suggest improvements to this section to increase its practicality? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q53: This section of the Guidance is useful or has utility.2	Respondent skipped this question
Q54: Would you like to suggest improvements to this section to increase its usefulness/utility? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q55: This section of the Guidance is consistent with the Cartagena Protocol on Biosafety.3	Respondent skipped this question
Q56: Would you like to suggest improvements to this section to increase its consistency with the Protocol? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q57: This section of the Guidance takes into account past and present experiences with LMOs.4	Respondent skipped this question
Q58: Would you like to suggest improvements to this section in order to better take into account past and present experiences with LMOs? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q59: Here you may provide further details to explain your answers in evaluating this section of the Guidance:	Respondent skipped this question

### PAGE 13

Q60: Would you like to submit an evaluation of the following section of the Guidance: Part II: Specific types of LMOs or Traits - Risk assessment of LM trees

No

Q61: This section of the Guidance is practical.1	Respondent skipped this question
Q62: Would you like to suggest improvements to this section to increase its practicality? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q63: This section of the Guidance is useful or has utility.2	Respondent skipped this question
Q64: Would you like to suggest improvements to this section to increase its usefulness/utility? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q65: This section of the Guidance is consistent with the Cartagena Protocol on Biosafety.3	Respondent skipped this question
Q66: Would you like to suggest improvements to this section to increase its consistency with the Protocol? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q67: This section of the Guidance takes into account past and present experiences with LMOs.4	Respondent skipped this question
Q68: Would you like to suggest improvements to this section in order to better take into account past and present experiences with LMOs? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q69: Here you may provide further details to explain your answers in evaluating this section of the Guidance:	Respondent skipped this question

# PAGE 15

Q70: Would you like to s	ubmit an evaluation of the following
section of the Guidance:	Part III: Monitoring of LMOs
Released into the Enviro	nment

No

Q71: This section of the Guidance is practical.1	Respondent skipped this question
Q72: Would you like to suggest improvements to this section to increase its practicality? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q73: This section of the Guidance is useful or has utility.2	Respondent skipped this question
Q74: Would you like to suggest improvements to this section to increase its usefulness/utility? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q75: This section of the Guidance is consistent with the Cartagena Protocol on Biosafety.3	Respondent skipped this question

Q76: Would you like to suggest improvements to this section to increase its consistency with the Protocol? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q77: This section of the Guidance takes into account past and present experiences with LMOs.4	Respondent skipped this question
Q78: Would you like to suggest improvements to this section in order to better take into account past and present experiences with LMOs? If so, please indicate the line numbers and explain which improvements could be made:	Respondent skipped this question
Q79: Here you may provide further details to explain your answers in evaluating this section of the Guidance:	Respondent skipped this question

### PAGE 17

Q80: Would you like to submit an evaluation of the following section of the Guidance: Background Documents	No

### PAGE 18

Q81: This section of the Guidance is practical.1	Respondent skipped this question
Q82: This section of the Guidance is useful or has utility.2	Respondent skipped this question
Q83: This section of the Guidance is consistent with the Cartagena Protocol on Biosafety.3	Respondent skipped this question
Q84: This section of the Guidance takes into account past and present experiences with LMOs.4	Respondent skipped this question

### PAGE 19

Q85: Please use the space below if you wish to provide additional feedback regarding the testing of the Guidance on Risk Assessment of Living Modified Organisms:

We would like to emphasize that testing was prepared and conducted very thoroughly with experts' involvement of the Parties from all regions of the planet. Taking into account the fact that at present many countries have no sufficient experience in assessing LMO risks, we propose to conduct repeated testing of the Guidance when a rather large number of comments and suggestions will be accumulated after practical application of the given Guidance.