





Biosafety Clearing-House (BCH)

	BCH-VLR-SCBD	-103432
	LAST UPDATED: 1	0 MAY 201
General Information		
Title		
Problem Formulation and Hypothesis Testing for Environmental Risk Genetically Modified Crops.	Assessments of	EN
Type of resource		
General library resource Article Journal Magazine Newspaper		
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		EN
Bracknell, Berkshire RG42 6EY, UK		EN
Bracknell, Berkshire RG42 6EY, UK Publisher		
Bracknell, Berkshire RG42 6EY, UK Publisher EDP Sciences		
Bracknell, Berkshire RG42 6EY, UK Publisher EDP Sciences Publication date		EN
Bracknell, Berkshire RG42 6EY, UK Publisher EDP Sciences Publication date 2006		EN
Bracknell, Berkshire RG42 6EY, UK Publisher EDP Sciences Publication date 2006 Source		EN
Bracknell, Berkshire RG42 6EY, UK Publisher EDP Sciences Publication date 2006 Source Environmental Biosafety Research		EN
Bracknell, Berkshire RG42 6EY, UK Publisher EDP Sciences Publication date 2006 Source Environmental Biosafety Research Rights		EN EN EN

Problem Formulation and Hypothesis Testing for Environmental Risk Assessments of Genetically Modified Crops..pdf [English]

Problem Formulation and Hypothesis Testing for Environmental Risk Assessments of Genetically Modified Crops. [English]

Information on the content of the resource

Summary, abstract or table of contents

Abstract:

Environmental risk assessments can provide high confidence of minimal risk by testing theories, "risk hypotheses", that predict the likelihood of unacceptable harmful events. The creation of risk hypotheses and a plan to test them is called problem formulation. Effective problem formulation seeks to maximize the possibility of detecting effects that indicate potential risk; if such effects are not detected, minimal risk is indicated with high confidence. Two important implications are that artificial test conditions can increase confidence, whereas prescriptive data requirements can reduce confidence (increase uncertainty) if they constrain problem formulation. Poor problem formulation can increase environmental risk because it leads to the collection of superfluous data that may delay or prevent the introduction of environmentally beneficial products.

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Keywords for facilitating searching for information in the clearing-houses

Biosafety Thematic Areas

Scientific and technical issues Risk assessment

Would you like to recommend this document as background material for the "Guidance on Risk Assessment of Living Modified Organisms"?

https://bch.cbd.int/onlineconferences/ra_guidance_references.shtml

Yes

Author affiliation

Section(s) of the 'Guidance on Risk Assessment of Living Modified Organisms' this background material is relevant to

1. Roadmap for risk assessment of living modified organisms

1.4. Planning phase of the risk assessment

1.4.1. Establishing the context and scope

Does this resource address one or more specific LMOs?

No

Does this resource address one or more specific organisms?

No

Does this resource address one or more specific genetic elements?

No

Additional Information

Identifier (ISBN, ISSN, etc.)

DOI: 10.1051/ebr:2007004

Format

7 page PDF

Keywords and any other relevant information

Keywords: risk assessment / problem formulation / scientific method / certainty / data requirements Citation: Environ. Biosafety Res. 5 (2006) 119-125

BCH-VLR-SCBD-103432-2

Further Information

Questions about the Cartagena Protocol on Biosafety or the operation of the Biosafety Clearing-House may be directed to the Secretariat of the Convention on Biological Diversity.

Secretariat of the Convention on Biological Diversity

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