



**Review of Scientific Literature Relevant to the  
Food/Feed and Environmental Risk Assessment of  
Bt11 × MIR162 × MIR604 × GA21 Maize**

**Literature Review**

**TEST GUIDELINE(S):**

Not Applicable

**AUTHOR(S):**



**COMPLETION DATE:**

October 25, 2021

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**LABORATORY PROJECT ID:**

Report Number: SSB-113-21

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## STATEMENT OF DATA CONFIDENTIALITY CLAIMS

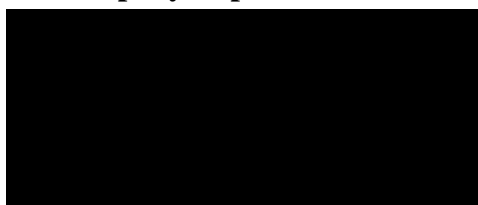
*The following statement applies to submissions to the United States Environmental Protection Agency (US EPA).*

### Statement of No Data Confidentiality Claim

No claim of confidentiality is made for any information contained in this report on the basis of its falling within the scope of Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 10 (d) (1) (A), (B), or (C).

**Company:** *Syngenta Seeds, LLC*

**Company Representative:**

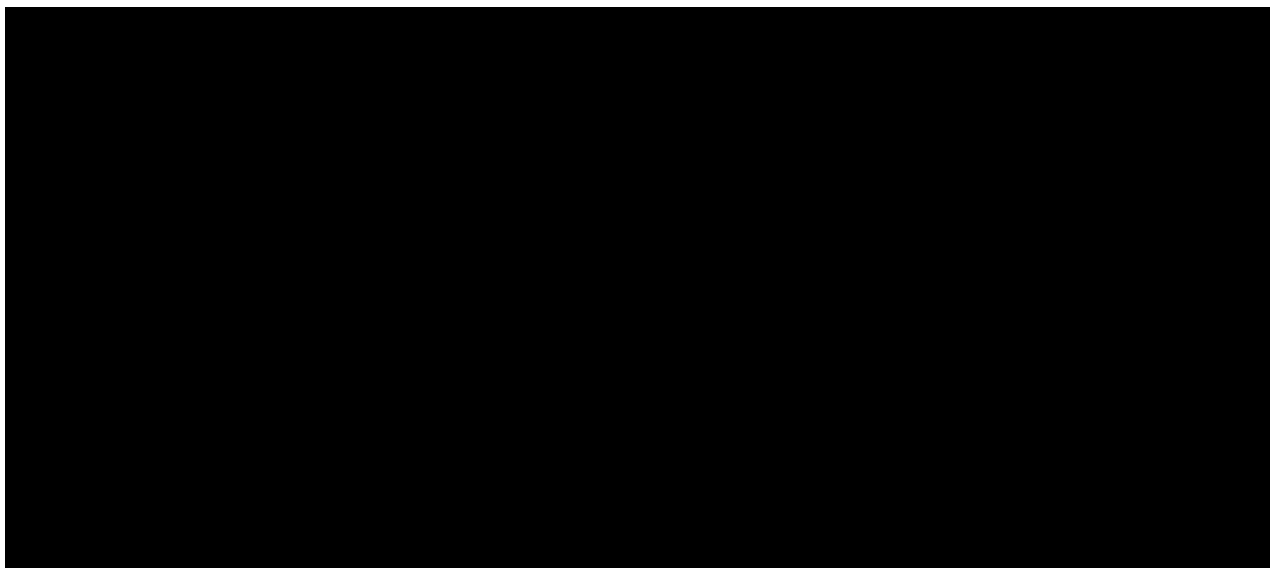


October 25, 2021

Date

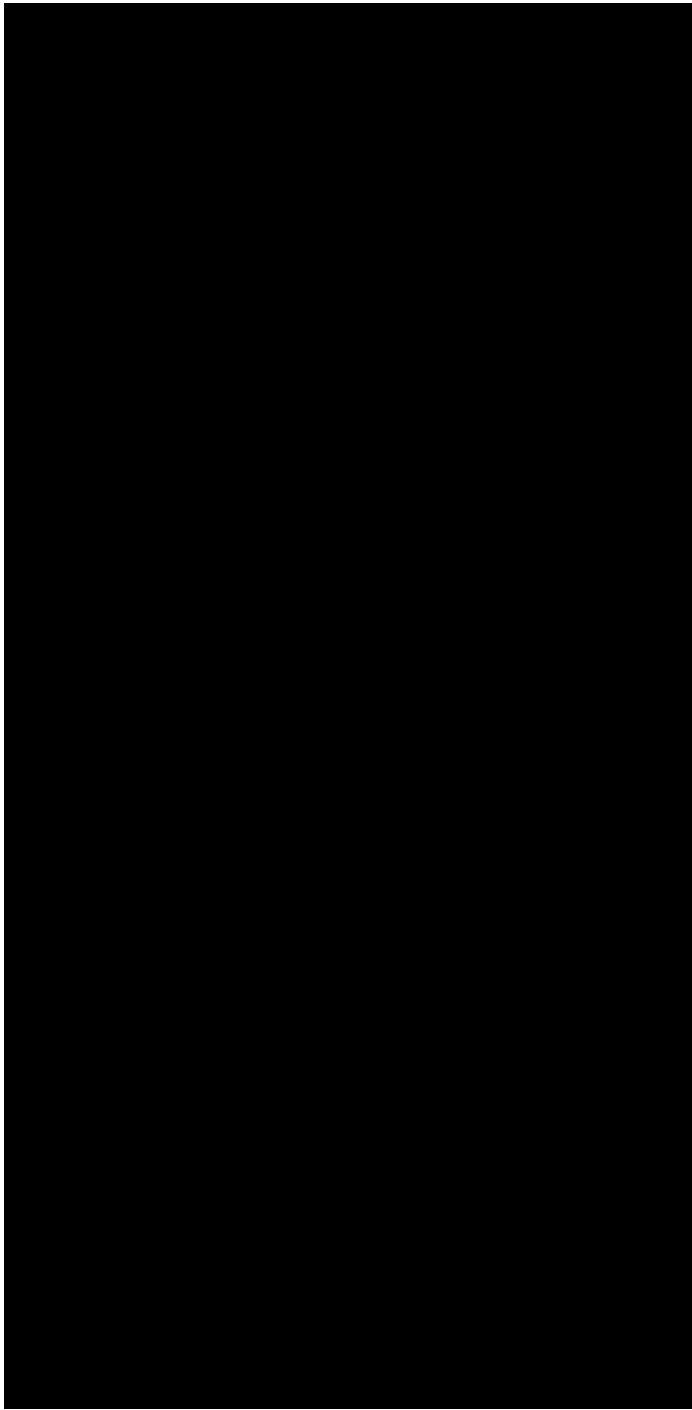
These data are the property of Syngenta Seeds, LLC and, as such, are considered to be confidential for all purposes other than compliance with the regulations implementing FIFRA Section 10. Submission of these data in compliance with FIFRA does not constitute a waiver of any right to confidentiality that may exist under any other provision of common law or statute or in any other country.

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## GOOD LABORATORY PRACTICE COMPLIANCE STATEMENT

This is not a study as defined by 40 CFR Part 160.3 and is therefore not subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Good Laboratory Practice Standards (GLPS; US EPA, 1989). However, all components of this analysis were performed according to accepted scientific practices, and relevant records have been retained.



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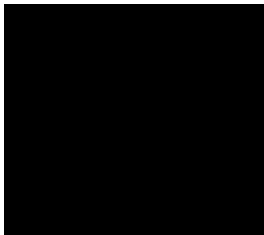
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GENERAL INFORMATION

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## **LIST OF ACRONYMS AND ABBREVIATIONS**

CAB	Commonwealth Agricultural Bureaux
EFSA	European Food Safety Authority
ERA	Environmental Risk Assessment
EPSPS	5-enolpyruvylshikimate-3-phosphate synthase
EU	European Union
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
GMO	Genetically Modified Organism
ISAAA	International Service for the Acquisition of Agri-Biotech Applications
MEDLINE	MEDical Literature Analysis and Retrieval System Online
mEPSPS	double-mutated 5-enolpyruvylshikimate-3-phosphate synthase
NA	Not Applicable
NTO	Nontarget organism
PAT	Phosphinothricin acetyltransferase
PICO/PECO	Population, Intervention/Exposure, Comparator, Outcomes
PMEM	Post-Market Environmental Monitoring
PMI	Phosphomannose isomerase

## 1.0 EXECUTIVE SUMMARY

Syngenta has developed Bt11 x MIR162 x MIR604 x GA21 maize (*Zea mays* L., corn) by combining four individual transformation events using conventional breeding.

A systematic literature search and scoping review for the Bt11 x MIR162 x MIR604 x GA21 stack maize and all sub-combinations in scope was conducted following the requirements of the European Food Safety Authority (EFSA) technical note on literature searching to GMO risk assessment guidance in the context of an annual post-market environmental monitoring (PMEM) report on GMOs (EFSA 2019).

A broad literature search was performed using a pre-defined comprehensive search strategy over a collection of bibliographic databases, covering a database entry period from June 01, 2020 to July 01, 2021. A total of four public databases based on their coverage of scientific literature were searched via Ovid search interface. The records were de-duplicated after combining records retrieved from all the databases to generate unique references. Similarly, the internet pages of regulatory agencies and risk assessment bodies that are involved in the risk assessment of stacks and post their risk assessments on their websites were searched.

This literature search identified a total of 131 records from database search, of which all 131 records were excluded and no subsequent steps of reviews were carried out. Similarly, the literature search identified a total of 23 records from the internet search, of which all 23 records were excluded.

Therefore, the literature search results, and review support the existing safety assessment of the Bt11 x MIR162 x MIR604 x GA21 stack maize and all sub-combinations in scope.

## 2.0 METHODS

### 2.1 Objective of the Scoping Review

The objective of this systematic literature search and scoping review was to search scientific publications in order to collect, identify, and assess evidence that is relevant to the risk assessment of Bt11 x MIR162 x MIR604 x GA21 stack maize and all sub-combinations in scope in the context of an annual post-market environmental monitoring (PMEM) report on GMOs authorized in the EU market.

Syngenta developed Bt11 x MIR162 x MIR604 x GA21 maize (*Zea mays* L., corn) by combining four individual transformation events using conventional breeding. Maize plants derived from transformation Event Bt11 contain the transgene *cry1Ab*, which encodes the insecticidal protein Cry1Ab, and the transgene *pat*, which encodes the enzyme phosphinothricin acetyltransferase (PAT). The native, full-length Cry1Ab produced by the soil bacterium *Bacillus thuringiensis* subsp. *kurstaki* is active against certain lepidopteran insect pests of maize, including *Ostrinia nubilalis* and *Sesamia nonagrioides*. The Cry1Ab produced by Bt11 maize is a truncated version of native Cry1Ab that retains activity against lepidopterans. The transgene *pat* was derived from the soil bacterium *Streptomyces*

*viridochromogenes*. PAT acetylates glufosinate-ammonium, thus inactivating it and conferring tolerance to glufosinate-ammonium in herbicide products. PAT was used as a selectable marker in the development of Bt11 maize.

Maize plants derived from Event MIR162 contain the transgene *vip3Aa20*, which encodes the insecticidal protein Vip3Aa20, and the transgene *pmi*. Vip3Aa20 is a variant of the native Vip3Aa1 protein from the soil bacterium *B. thuringiensis* strain AB88, and is active against certain lepidopteran pests of maize, including *Spodoptera frugiperda* and *Helicoverpa zea*. PMI was used as a selectable marker in the development of MIR162 maize.

Maize plants derived from Event MIR604 provide control of certain coleopteran insect pests. Event MIR604 maize plants contain the transgene *mcry3A*, which encodes the insecticidal protein mCry3A, and the transgene *pmi*, which encodes the enzyme PMI. The native Cry3A from the soil bacterium *B. thuringiensis* subsp. *tenebrionis* is active against certain coleopteran pests of maize. The mCry3A produced by MIR604 was modified to have enhanced activity against the *Diabrotica virgifera virgifera* and other related coleopteran pests. PMI was used as a selectable marker in the development of MIR604 maize. PMI expressed in MIR604 maize differs from the *E.coli* PMI by two amino acids and has been designated MIR604 PMI.

Maize plants derived from transformation Event GA21 contain the transgene *mepsps*, which encodes the enzyme double-mutated 5-enolpyruvylshikimate-3-phosphate synthase (mEPSPS). The native 5-enolpyruvylshikimate-3-phosphate synthase (EPSPS) from *Z. mays* is involved in synthesis of aromatic amino acids and is inhibited by glyphosate. The double-mutated mEPSPS produced by GA21 maize has low affinity for glyphosate compared to the native EPSPS, thus conferring tolerance to glyphosate in herbicide products.

## 2.2 Formulating Review Questions and Clarifying Their Purpose

### 2.2.1 Review Question

The review question associated with this literature search was:

Do either food/feed products derived from Bt11 × MIR162 × MIR604 × GA21 maize including all sub-combinations in scope or the combined intended traits have adverse effects on human and animal health, and/or the environment?

This review question followed the PICO/PECO structure with key elements “Population, Intervention/Exposure, Comparator, Outcomes” (Table 1).

**TABLE 1      Review Question in PICO/PECO Structure**

<b>Element</b>	<b>Components of Review Question</b>
<u>P</u> opulation	Human and animal health and the environment
<u>I</u> ntervention/ <u>E</u> xposure	Bt11 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope, derived food/feed products, and/or relevant combinations of Cry1Ab, phosphinothricin acetyltransferase (PAT), Vip3Aa20, phosphomannose isomerase (PMI [including MIR604 PMI]), modified Cry3A (mCry3A) and double-mutated 5-enolpyruvylshikimate-3-phosphate synthase (mEPSPS) and closely related variants
<u>C</u> omparator	conventional counterpart (if applicable)
<u>O</u> utcome	adverse effects

Because the search approach was not exclusionary (i.e., did not exclude the presence of any other events in retrieved records) searching the name of any of the single events comprising the Bt11 × MIR162 × MIR604 × GA21 maize stack has the possibility to return literature relevant to the stack of interest and all sub-combinations. A binary search term approach was developed to return literature on those titles related to all the possible stack combinations of this application. A similar approach was used for the proteins associated with the events. The sub-combinations relevant to Bt11 × MIR162 × MIR604 × GA21 maize EU market authorization are listed in Table 2.

**TABLE 2      List of Sub-combinations in Scope for Bt11 × MIR162 × MIR604 × GA21 Maize Application**

<b>Highest order stack</b>	<b>Bt11 × MIR162 × MIR604 × GA21</b>
<b>Four sub-combinations of three events</b>	Bt11 × MIR162 × MIR604
	Bt11 × MIR162 × GA21
	Bt11 × MIR604 × GA21
	MIR162 × MIR604 × GA21
<b>Six sub-combinations of two events</b>	Bt11 × MIR162
	Bt11 × MIR604
	Bt11 × GA21
	MIR162 × MIR604
	MIR162 × GA21
	MIR604 × GA21

### 2.2.2 Eligibility/Inclusion Criteria

High level key concepts for inclusion/exclusion criteria intended to establish relevance of retrieved records are provided in the order of importance or ease of finding information on the criteria within a publication (Table 3). The first failed eligibility/inclusion criterion was used as the primary reason for exclusion, and the remaining criteria were not assessed.

**TABLE 3            Eligibility/Inclusion Criteria to Establish Relevance**

Concepts	Criteria	Comment
Stacked events obtained by conventional crosses/subcombinations	A publication is included when it addresses the highest order breeding stack and/or a sub-combination or sub-combinations of the single events of the highest order breeding stack independently of its/their origin.	This permits the selection of publications on the higher order breeding stack and/or sub-combinations of the single events of the higher order that are in scope of the Bt11 × MIR162 × MIR604 × GA21 application, independently of their origin. This permits the exclusion of publications only on the single events of the higher stacked event, because the risk assessment of GMO applications for stacked events covers only products in the scope of the GMO application – i.e., the higher order and sub-combinations of the singles involved, independently of their origin.
Intervention/exposure	Bt11 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope, derived food/feed products, and/or the intended trait(s)	Intended traits include glufosinate herbicide tolerance, glyphosate herbicide tolerance, coleopteran insect resistance, lepidopteran insect resistance and mannose metabolism. Closely related variants of the insecticidal proteins included in scope were those that shared the same tertiary level of Crickmore nomenclature for Cry1Ab. Closely related variants of Vip3Aa20 and mCry3A are those that share the same secondary level of Crickmore nomenclature. Any enzyme classified as a 5-enol pyruvylshikimate-3-phosphate synthase was considered as in scope if the EPSPS protein imparts the glyphosate tolerance trait. Any enzyme classified as a phosphinothricin acetyltransferase (PAT) was considered as in scope. Any enzyme as a phosphomannose isomerase was considered as in scope. Only unique combinations of these protein associated with the stack and its sub-combinations were in scope.
Information/data requirements	Data inform one or more information/data requirement(s) for the GMO and derived food/feed products under consideration, including the intended trait(s)	Publications that potentially contribute to the knowledge informing the risk assessment of Bt11 × MIR162 × MIR604 × GA21 maize (information/data requirements provided in Table 4) and all sub-combinations in scope will be considered relevant. Based on the scope of the application certain information/data requirements may be excluded. These are also detailed in Table 4. Publications addressing issues such as benefits, socio-economics, ethics, crop protection, detection methods, efficacy, public perception and risk communication will be excluded using this criterion, as they are not relevant to the risk assessment as defined in this document.
Scope of GMO application	The pathways and level of exposure to the GMO, derived food/feed products, and the intended trait(s) addressed in the publication are relevant for the intended uses of the GMO and derived food/feed products under regulatory review	Publications must address pathways and levels of exposure relevant to the scope of the application: import and processing of Bt11 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope for food/feed uses.

Concepts	Criteria	Comment
Reporting format	Original/primary data are presented in the publication or it is a risk assessment from a relevant key organization (such as regulatory agencies and risk assessment bodies involved in the risk assessment of GMOs)	Records that do not present original/primary data (e.g. reviews, editorials, position papers) will be excluded. Reviews will be only included if they present data that are not available from a primary research study. Risk assessments performed and reported by relevant key organizations will be included if they address Bt11 × MIR162 × MIR604 × GA21 maize, any of the relevant sub-combinations, and unique combinations of Cry1Ab, PAT, Vip3Aa20, PMI, mCry3A, MIR604 PMI and mEPSPS and closely related variants.
Previously risk assessed publications	As indicated by EFSA, a publication should be included if it has not been previously risk assessed by EFSA and/or its GMO Panel and is not cited/referenced in an EFSA/GMO Panel output	If a publication has previously been considered by EFSA it will be excluded. Any cited/referenced publications contained within documents produced by EFSA and/or its GMO Panel will be excluded.
Access	Full-text document is accessible	If potentially relevant full-text documents cannot be obtained, then they will be listed in a table with a description of the (unsuccessful) methods used to try to obtain a copy.
Population	Human and animal health, and/or the environment are addressed as general protection goals	All of the information/data requirements categories described in Table 4 are thought to inform the risk assessment related to human and animal health, and/or the environment. Therefore, if a publication meets the inclusion criteria described in this Table and meets the information/data requirements in Table 4 it will be considered relevant.
Outcomes	Effects/impacts on human and animal health, and/or the environment are addressed	Publications that address Bt11 × MIR162 × MIR604 × GA21 maize, or sub-combinations in scope also need to address effects/impacts on entities of concern, and potential determinants of exposure that place these entities at risk in order to be relevant to the risk assessment of Bt11 × MIR162 × MIR604 × GA21 maize, or sub-combinations in scope.
Comparator	If the publication is a comparative study that uses plant material as a test material, eligible publications must report a non-GM variety	Publications that address Bt11 × MIR162 × MIR604 × GA21 maize or sub-combinations in scope, must also include a conventional counterpart as a comparator in those cases where comparative analysis is conducted and plant material is used as test material. Any uncertainties about the appropriateness of the comparator was addressed in the assessment of the publication.
Plant species	The publication may address the same plant species as the GMO under consideration, but could also address any plant species producing unique combinations of Cry1Ab, PAT, Vip3Aa20, PMI (including MIR604 PMI), modified Cry3A (mCry3A) and mEPSPS	The review question addresses the safe use of the intended trait(s) of Bt11 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope. Therefore, GMOs that contain Cry1Ab, PAT, Vip3Aa20, PMI (including MIR604 PMI), modified Cry3A (mCry3A) and mEPSPS or closely related variants, but are introduced into another plant species may be included. For certain types of data, the presence of the transgenic proteins in a different plant



Concepts	Criteria	Comment
	proteins in the stack or sub-combinations in scope of the application.	species will not impact the assessment of Bt11 × MIR162 × MIR604 × GA21 maize. Those types of data are identified as event specific in Table 4.
Target pest/organisms	Target pests/organisms addressed in the study are established in the EU	Records related to the intervention/exposure and target pests/organisms will be excluded because the scope of the application is import for food/feed uses and this concept would be relevant for cultivation applications only.
Reporting format	A study should only be presented once, but if it is presented in more than one publication, all publications should be listed and grouped.	Duplicate publications will be excluded at the initial screening stage. Only one copy of a study will be presented even if it is reported in different publications.

Expert knowledge on data used in the risk assessment of the GMO is required. Some examples of relevant data/information on the information/data requirements concept included in Table 3 are listed in Table 4. If certain data are considered stack/sub-combination specific or specific to the unique transgenic protein combinations expressed in Bt11 × MIR162 × MIR604 × GA21 maize and the sub-combinations in scope, it is noted. If the record did not contain enough information to determine if the protein being evaluated is a closely-related variant, then it was included.

**TABLE 4 Overview of Main Categories of Information/Data Requirements**

Information/data requirement	Non-exhaustive list of specific information/data requirements
Molecular characterization of the genetic modification of Bt11 × MIR162 × MIR604 × GA21 maize and sub-combinations in the scope	<ul style="list-style-type: none"> <li>Information on the inserted/modified DNA including: sequence, size, copy number, genetic element arrangement, deletions, location, sequence similarity searches, analysis of open reading frames for each individual events in the stack maize (stack/sub-combination specific)</li> <li>Expression data of inserted/modified sequences (stack/sub-combination specific)</li> <li>Genetic stability (stack/sub-combination specific)</li> <li>Data on the equivalence between plant-produced and microbially-produced proteins (stack/sub-combination specific)</li> </ul>
Agronomic, phenotypic and compositional characterization of the Bt11 × MIR162 × MIR604 × GA21 maize	<ul style="list-style-type: none"> <li>Comparative assessment of agronomic and phenotypic characteristics under field or controlled conditions (stack/sub-combination specific)</li> <li>Comparative analysis of key nutritional constituents (stack/sub-combination specific)</li> </ul>
Toxicological assessment of newly expressed protein(s), new constituents other than proteins, and the whole GM food/feed	<ul style="list-style-type: none"> <li>Toxicity studies in rodents (protein combinations in scope)</li> <li>Whole food/feed animal feeding studies (stack/sub-combination specific)</li> </ul>
Allergenicity assessment of the newly expressed protein and the GM food/feed, and adjuvanticity	<ul style="list-style-type: none"> <li>Serum screening (protein combinations in scope)</li> <li><i>In vivo</i> tests in animal models</li> <li>Expression data for endogenous allergens in maize (stack/sub-combination specific)</li> </ul>
Nutritional assessment of the newly expressed protein(s), other new constituents, as well as potential alterations in the total diet of the consumer or the animal	<ul style="list-style-type: none"> <li>Anticipated dietary intake of food/feed and the resulting nutritional impact (stack/sub-combination specific)</li> <li>Comparative growth performance studies with young rapidly growing animal species (stack/sub-combination specific).</li> </ul>
Post-market monitoring	<ul style="list-style-type: none"> <li>Description of mechanisms for determining actual changes to overall dietary intake patterns of the Bt11 × MIR162 × MIR604 × GA21 maize and sub-combinations in scope, to what extent this has occurred and whether or not the product induces known (side) effects or unexpected side effects</li> <li>Information on the reliability, sensitivity and specificity of the post market monitoring methods.</li> </ul>
Persistence and invasiveness assessment, including plant-to-plant gene transfer	<ul style="list-style-type: none"> <li>Measurements of volunteer occurrence and establishment (stack/sub-combination specific)</li> <li>Replacement capacity (stack/sub-combination specific)</li> <li>Fitness of the Bt11 × MIR162 × MIR604 × GA21 plant in various environmental conditions – if the relevant combinations or sub-combinations of newly expressed proteins are expressed in a different plant species then the publication may be considered relevant.</li> </ul>
Assessment of plant to micro-organism gene transfer	<ul style="list-style-type: none"> <li>This type of data is covered in the scope of the single event literature review.</li> </ul>
Assessment of interactions with target organisms	<ul style="list-style-type: none"> <li>Excluded based on the scope of the application. The scope of this application covers the import, processing, and food and feed use of Bt11 × MIR162 × MIR604 × GA21 maize and sub-combinations in the scope in the EU. According to the EFSA ERA Guidance (EFSA 2010): “<i>resistance development is only</i></li> </ul>

Information/data requirement	Non-exhaustive list of specific information/data requirements
	<i>relevant for applications with scope cultivation of GM plants and not for applications restricted to import and processing of GM plants and their products” (EFSA 2010). Therefore, an assessment of the potential resistance development in target organisms resulting from the import, processing and food and feed use Bt11 × MIR162 × MIR604 × GA21 maize and sub-combinations in scope is not relevant for this application.</i>
Assessment of interactions with nontarget organisms	<ul style="list-style-type: none"><li>• The EFSA ERA Guidance (EFSA 2010) states that: “in cases where the application does not include cultivation in the EU, direct environmental exposure of NTOs to the GM plant is via accidental release into the environment of seeds or propagules during transportation and processing. This may result in sporadic occurrence of feral plants and therefore exposure of NTO populations is likely to be negligible. The ERA will then focus on indirect exposure to products of the GM plant (e.g., through manure and faeces from animals fed the GM plant, and other by-products of industrial processes)”. Therefore, any publications that discuss direct exposure in test protein and laboratory studies or field survey data will be considered not relevant based on scope of application.</li></ul>
Assessment of interactions with biogeochemical and abiotic processes	<ul style="list-style-type: none"><li>• Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of Bt11 × MIR162 × MIR604 × GA21 maize and sub-combinations in scope in the EU. According to the EFSA ERA Guidance (EFSA 2010): “<i>applications concerning food/feed uses and import and processing do not require scientific information on possible environmental effects associated with the cultivation of the plant</i>” therefore, an assessment of the impacts of Bt11 × MIR162 × MIR604 × GA21 maize and sub-combinations in scope on biogeochemical processes resulting from specific cultivation, management and harvesting techniques is not relevant given the scope of this application.</li></ul>
Assessment of impact of specific cultivation, management and harvesting techniques	<ul style="list-style-type: none"><li>• Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of Bt11 × MIR162 × MIR162 × GA21 maize and sub-combinations in the scope in the EU. Cultivation of Bt11 × MIR162 × MIR604 × GA21 maize in the EU is not included in the scope. According to the EFSA ERA guidance (EFSA 2010): “<i>for GM plants for import and processing that are not intended for cultivation in the EU, there is no need for an ERA for altered cultivation, management and harvesting techniques</i>”. Therefore, an assessment of impact of specific cultivation, management and harvesting techniques of Bt11 × MIR162 × MIR604 × GA21 maize is not relevant for this application.</li></ul>

Information/data requirement	Non-exhaustive list of specific information/data requirements
Risk mitigation	<ul style="list-style-type: none"><li>Excluded based on the scope of the application. Risk mitigation measures such as high dose/refuge strategy, isolation distance from protected habitats hosting species of conservation concern that are at risk, integrated pest/weed management are only relevant to cultivation. The scope of this application covers the import, processing and food and feed use of Bt11 × MIR162 × MIR604 × GA21 maize and sub-combinations in scope.</li></ul>
Post-market environmental monitoring	<ul style="list-style-type: none"><li>Excluded based on the scope of the application. Monitoring such as insect resistance is relevant only to cultivation. The scope of this application covers the import, processing and food and feed use of Bt11 × MIR162 × MIR604 × GA21 maize and included sub-combinations.</li></ul>

### 3.0 SEARCHING FOR/IDENTIFYING RELEVANT PUBLICATIONS

#### 3.1 Electronic Bibliographic Databases

To search for different types of publications and unpublished work that could provide information on the review question, multidisciplinary citation databases which include grey literature (i.e., not peer reviewed) was used. A total of four public databases including MEDical Literature Analysis and Retrieval System Online (Medline), Agricola, Commonwealth Agricultural Bureaux (CAB) Abstracts, and BIOSIS Previews® were searched via Ovid search interface (provided by Ovid Technologies). Each of the databases has a thesaurus. These databases were selected based on their coverage of scientific literature for relevant subjects including, but not limited to, biomedicine, plant diseases, agriculture, life sciences, pesticides, human health and nutrition, animal health, plant science, biotechnology, and environmental studies. The document types in these databases include journal articles, technical letters and notes, conference proceedings, book chapters, reports, and articles in press.

Due to the use of multiple (i.e., 4) multi-disciplinary databases and redundancy in coverage it is unlikely that late edition of a publication would be missed.

#### 3.2 Internet Searches

##### 3.2.1 Key organizations

The internet pages of regulatory agencies and risk assessment bodies that are involved in the risk assessment of stacks and post their risk assessments on their websites (Table 5) were searched for documents related to Bt11 × MIR162 × MIR604 × GA21 maize.

**TABLE 5 Key Organization Pages Included in the Search**

Regulatory agency/risk assessment body	Web address
US Environmental Protection Agency	<a href="https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated">https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated</a>
Health Canada <sup>a</sup>	<a href="https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html">https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html</a>
Office of the Gene Technology Regulator	<a href="http://www.ogtr.gov.au/">http://www.ogtr.gov.au/</a>
National Technical Commission on Biosafety <sup>b</sup>	<a href="http://ctnbio.mctic.gov.br/inicio">http://ctnbio.mctic.gov.br/inicio</a>
Ministry of Agriculture, Forestry and Fisheries	<a href="http://www.maff.go.jp/e/">http://www.maff.go.jp/e/</a>

<sup>a</sup>Also searches Environment and Climate Change Canada (<https://www.canada.ca/en/environment-climate-change.html>) and Canadian Food Inspection Agency (<http://www.inspection.gc.ca/plants/plants-with-novel-traits/notices-of-submission/eng/1300143491851/1300143550790>).

<sup>b</sup>Reports that reflect individual reviewer opinions are excluded from evaluation because they are considered when developing the official final opinion of the agency.

Note: Regulatory agencies in Mexico (Intersecretarial Commission on Biosafety of GMOs) and Argentina (National Advisory Commission on Agriculture Biotechnology) do not post the relevant document types on their respective agency websites, and will not be searched.

### **3.2.2 Web-based Search Engines and Databases**

General search engines such as GOOGLE Scholar and web-based databases known to contain information specifically on effects of GMOs were not searched. The search of the databases and key organization websites is considered to provide an adequately comprehensive search of literature.

### **3.2.3 Manual Searches**

#### **3.2.3.1 Checking Reference Lists**

Reviews of methodological publications, guidelines, and scientific opinions from regulatory agencies were retrieved using the search strategy and no documents were classified as relevant to the review question.

#### **3.2.3.2 Hand Searching**

Hand searching was not conducted. The search of the databases and key organization websites is considered to provide an adequately comprehensive search of literature.

#### **3.2.3.3 Citation Searching**

Citation searching was not conducted. The search of the databases and key organization websites is considered to provide an adequately comprehensive search of literature.

## **3.3 Constructing the Search Strategy**

### **3.3.1 Database Searching**

#### **3.3.1.1 Approaches to Develop Searches**

The “lumping” approach was utilized. A single search strategy was developed to capture all categories of information of interest in one search. This strategy was used because previous experience indicated that a manageable number of studies was returned.

#### **3.3.1.2 Search Terms**

##### **Identifying search terms**

Search terms were identified by:

- Assessing subject indexing terms of relevant publications recorded in those electronic bibliographic databases that use thesauri
  - All publications returned from literature search reports that aim to comply with the EFSA explanatory note and deemed relevant to the review questions were examined to determine the subject indexing terms associated with it.
- Seeking suggestions from experts and stakeholders
  - The search terms were developed using a multi-disciplinary team (i.e., risk assessors, information specialists, regulatory affairs managers).

### **Free-text terms and subject indexing terms**

The searches with the Ovid platform utilized the keyword search in the advanced search window. The keyword search uses a default set of fields designated .mp, which vary by database. Therefore, Ovid uses the term “keyword” to indicate that it is executing a multi-field search. In each database the specific fields searched are a different combination of free-text and controlled vocabulary fields, with Ovid switching automatically to the appropriate fields when a database is selected.<sup>1</sup>

In Ovid, the fields used in the .mp keyword search are word searchable, therefore any search only has to find a single word in a controlled vocabulary field that contains phrases to return as search results all references indexed to that subject heading. Thus, a search strategy which includes “genetic\*” will return the following (highlighted below):

- **Genetically modified foods** or **genetic engineering** in the Subject Headings field in Agricola,
- Zea mays: species, maize, common, **genetically modified**, strain-Bt10 [Gramineae] in the Organism field in BIOSIS Previews,
- **Genetically engineered organisms** in the Subject Headings field in CAB Abstracts,
- Plants, **Genetically Modified** / ge [Genetics] or **Genetic Engineering** in MeSH Subject Headings in Medline

Subsequent combining of terms, (genetic\* AND (modif\* OR engineer\*)) (in bold), yields all references with these headings to be in the final results for that search set. Therefore, it was not necessary to search each exact controlled phrase in order to return all references for each of the specific headings.

Appendix A provides 1) the search history (including the full strategy used and fields searched as run in the database) and the number of publications identified (line by line) for each bibliographic database prior to de-duplication, and 2) the subject indexing used by each database as shown within the brackets after each search term.

### **3.3.1.3 Free-text Searching Functions**

<sup>1</sup>In Agricola the .mp fields are: free-text—abstract; geographic area; identifier; meeting information; map information; note; original title; personal name as subject; title—and controlled vocabulary—category code; subject heading.

In BIOSIS Previews the .mp fields are: free-text—abstract; book title; gene name; miscellaneous descriptors; methods & equipment; original language book title; title—and controlled vocabulary—biosystematic codes; chemicals & biochemicals; concept codes; diseases; geopolitical locations; major concepts; organisms; parts, structure & systems of organisms; sequence data; super taxa; taxa notes; time.

In CAB Abstracts the .mp fields are: free-text—abstract; identifiers; original title; title—and controlled vocabulary—broad terms; geographic location; organism descriptors; subject headings.

In Medline the .mp fields are: free-text—abstract; keyword heading word; original title; synonyms; title; unique identifier—and controlled vocabulary—floating sub-heading word; name of substance word; organism supplementary concept word; protocol supplementary concept word; rare disease supplementary concept word; subject heading word.

The search terms were selected to incorporate a wide variety of synonymous and related terms. Truncation and wildcards were used where appropriate to capture different conventions in spelling and variation in the endings of terms.

3.3.1.4 Search Strings

Search strings were combined with Boolean and proximity operators appropriate for the scope of the review.

3.3.1.5 Key Elements of Review Questions to Use for Best Results

A very large number of publications were returned using only the four key elements of Event, Intended trait, newly expressed protein(s), and Trade Name. To prevent a very large number of publications from being returned while still achieving sensitivity, additional key elements were added to the search strategy. Sensitivity was defined as the ability to return the previously deemed relevant articles with the new search string. ‘A very large number’ is not defined in the Explanatory Note (EFSA 2019); however, the number returned with other search strategies (e.g., (Event OR Intended Trait OR Newly Expressed Protein(s) OR Trade Name) or (Event OR Trade name OR ((Intended Trait OR Newly Expressed Protein(s)) AND (Plant Species or GMO)))) was so large that it could not be de-duplicated by the search platform.

Therefore, the search structure included the following search concepts/key elements; Event, Trade Name, Newly Expressed Protein(s), or Intended Trait in the same publications as terms describing plant species and/or GMO general terms. The search strategy employed was:

- Single event combinations OR Trade name OR Newly expressed protein combinations, OR (((Intended trait AND GMO general) OR GMO general × Intended trait) AND Plant species) OR GMO general × Intended trait - insecticidal

The search strategy employed captured literature relevant to Bt11 × MIR162 × MIR604 × GA21 maize (Table 6). The same search string was used in all databases. Since the Ovid search platform simultaneously searches free-text and subject headings there is no disadvantage to using all search terms in all databases. For example, if ‘Genetically engineered organisms’ is a subject heading in CAB Abstracts but not in Agricola including this term in the search of the Agricola databases still allows for free-text searching of this term.

TABLE 6 Search String Strategy

Set	Field	Search String	Concepts/Key Elements
1	Topic	Bt11 OR Bt 11 OR SYN-BT?11-1	Event Bt11
2	Topic	MIR162 OR MIR 162 OR SYN-IR162-4	Event MIR162
3	Topic	MIR604 OR MIR 604 OR SYN-IR6?4-5	Event MIR604
4	Topic	GA21 OR GA 21 OR GA2I OR GA 2I OR MON ØØØ21* OR MON ØØØ21* OR MON 00021* OR MON empty setempty setempty set21* OR MONØØØ21* OR MONØØØ21* OR MONØØØ21* OR MONempty setempty setempty set21* OR MØN ØØØ21* OR MØN ØØØ21* OR MØN 00021* OR MØN 00021* OR MØN empty setempty setempty set21* OR MØNØØØ21* OR MØNØØØ21* OR MØNØØØ21* OR MØNØØØ21* OR MØNempty setempty setempty set21*	Event GA21



Set	Field	Search String	Concepts/Key Elements
5		#1 AND (#2 OR #3 OR #4)	Included event combinations
6		#2 AND (#3 OR #4)	Included event combinations
7		#3 AND #4	Included event combinations
8		#5 OR #6 OR #7	All relevant single event combinations
9		Agrisure*	Trade name of the highest order stack, single events and subcombinations <sup>a</sup>
10	Topic	Cry1Ab* OR Cry 1Ab* OR Cry1 Ab* OR Cry 1 Ab* OR Cry1Ab* OR Cry IAb* OR CryI Ab* OR Cry I Ab*	Newly expressed protein in Bt11
11	Topic	Phosphinothricin N acetyltransferase OR Phosphinothricin N acetyl transferase OR Phosphinothricin acetyltransferase OR Phosphinothricin acetyl transferase OR PPT acetyltransferase OR PPT acetyl transferase OR PT N acetyltransferase OR PT N acetyl transferase OR Glufosinate acetyltransferase OR Glufosinate acetyl transferase OR Gluphosinate acetyltransferase OR Gluphosinate acetyl transferase OR pat OR 111069-93-3 OR EC 2.3.1.183 OR E.C. 2.3.1.183	Newly expressed protein in Bt11
12	Topic	Vip3AA20* OR Vip3 AA20* OR Vip3 AA 20* OR Vip3A A 20*	Newly expressed protein in MIR162
13	Topic	Phosphomannoisomerase OR Mannose 6-phosphate isomerase OR Phosphomannoseisomerase OR Phosphomannose isomerase OR 9023-88-5 OR AAA24109 OR EC 5.3.1.8 OR E.C. 5.3.1.8	Newly expressed protein in MIR162 and MIR604

Set	Field	Search String	Concepts/Key Elements
14	Topic	mCry3A* OR mCry 3A* OR mCry 3 A* OR Cry3A* OR Cry 3A* OR Cry 3 A*	Newly expressed protein in MIR604
15	Topic	5 enol pyruvyl shikimate 3 phosphate synthase OR 5 enolpyruvyl shikimate 3 phosphate synthase OR 5 enolpyruvylshikimate 3 phosphate synthase OR EPSP synthase OR MEPSP synthase OR EPSPS OR MEPSPS OR EC 2.5.1.1.9 OR E.C. 2.5.1.19	Newly expressed protein in GA21 maize
16		#10 AND (#12 OR #13 OR #14 OR #15)	Combinations of the newly expressed proteins in Bt11 (Cry1Ab) with those expressed in other events
17		#11 AND (#12 OR #13 OR #14 OR #15)	Combinations of the newly expressed proteins in Bt11 (PAT) with those expressed in other events
18		#12 AND (#14 OR #15)	Combinations of the newly expressed proteins in MIR162 with those expressed in other events
19		#13 AND #15	Combinations of the newly expressed proteins in MIR162 and MIR604 (PMI) with those expressed in other events
20		#14 AND #15	Combinations of the newly expressed proteins in MIR604 with those expressed in other events
21		#16 OR #17 OR #18 OR #19 OR #20	Combinations of newly expressed protein
22	Topic	((Insect or Insects or coleoptera* or lepidoptera* or pest or pests or stalkborer* or stalk borer* or borer* or cornborer* or corn borer* or noctuidae or Crambidae or Chrysomelidae or earworm* or ear worm* or armyworm* or army worm* or cutworm* or cut worm* or rootworm* or root worm* or Ostrinia or O nubilalis or Diatraea or D grandiosella or D crambidoides or Helicoverpa or H zea or Spodoptera or S frugiperda or S exigua or Papaipema or P nebris or Elasmopalpus or E lignosellus or D saccharalis or Striacosta or S albicosta or Agrotis or A ipsilon or Feltia or F jaculifera or Pseudaletia or P unipuncta or Diabrotica or D virgifera or D barberi or ECB or SWCB or SCSB or CEW or FAW or SCB or WBC or WCRW or WCR or NCRW or MCR or MCRW) adj2 (toleran* or resistan* or protect* or control*)) or B thuringiensis or Bacillus thuringiensis or ((glufosinate* or gluphosinate* or Basta* or Liberty* or Ignite* or Rely* or Finale* or Challenge* or gl?phosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*))	Intended traits
23	Topic	GMO* OR LMO* OR GM OR GE OR transgen* OR ((genetic* OR living OR biotech*) ADJ3 (modif* OR transform* OR manipul* OR improv* OR engineer* OR deriv*)) OR stack*	GMO general
24		#22 AND #23	Intended traits AND GMO general
25	Topic	GMHT OR GEHT OR GMHR OR GEHR OR GMHTs OR GEHTs OR GMHRs OR GEHRs	GMO general x intended traits – herbicidal

Set	Field	Search String	Concepts/Key Elements
26		#24 OR #25	(Intended traits AND GMO general) OR GMO general x intended traits - herbicidal
27	Topic	Maize* OR corn* OR Zea mays OR Z mays	Plant species
28		#26 AND #27	((Intended traits AND GMO general) OR GMO general x intended traits - herbicidal) AND plant species
29	Topic	((Bt OR Bacillus thuringiensis OR B thuringiensis) ADJ5 (maize* OR corn* OR mays)) OR Btmaize* OR Btcorn*	GMO general x intended traits
30		#8 OR #9 OR #21 OR #28 OR #29	(Combinations of Single event) OR (Trade names) OR (Newly expressed protein) OR (((Intended traits AND GMO general) OR GMO general x intended traits - herbicidal) AND Plant species) OR (GMO general x intended traits)

<sup>a</sup>Trade names for all of the single events, the highest order stack and commercial sub-combinations all have Agrisure in their names. Therefore, by simply searching Agrisure it is possible to capture all relevant literature.

Various single event and sub-combinations within the scope of this literature review include:

- Bt11 - Agrisure TL, Agrisure TD, Agrisure CB/LL, Agrisure CB
- GA21 - Agrisure GT, Agrisure TG, Agrisure Artesian GTA
- MIR604 - Agrisure RW
- MIR162 - Agrisure Viptera
- Bt11 × MIR162 - Agrisure Viptera 2
- Bt11 × MIR604 × GA21 - Agrisure 3000GT, Agrisure Artesian 3011A, Agrisure 3000GT CL
- Bt11 × MIR604 - Agrisure CB/LL/RW, Agrisure CB/RW, Agrisure CB/RW, Agrisure CB/LL/RWA
- GA21 × Bt11 - Agrisure GT/CB/LL, Agrisure 3010, Agrisure 3010A, Agrisure Bt/GT, Agrisure TLTG
- GA21 × Bt11 × MIR162 - Agrisure Viptera 3110, Agrisure Viptera 3110A, Agrisure TLTG Viptera, Agrisure Viptera 3
- GA21 × Bt11 × MIR162 × MIR604 - Agrisure Viptera 3111, Agrisure Viptera 3111A, Agrisure Viptera 3111A, Agrisure Viptera 3111 CL, Agrisure Viptera 4

Because the binary search strategy is not exclusionary it allowed for the possibility of returning records on all of the subcombinations in scope of the application without searching all of the subcombinations separately (see Table 7 for an example matrix for the event terms).

**TABLE 7**      **Matrix for the Event Terms in Scope for Bt11 × MIR162 × MIR604 × GA21 Maize**

Stacks in scope of the application	Binary search terms					
	Bt11 × MIR162	Bt11 × MIR604	Bt11 × GA21	MIR162 × MIR604	MIR162 × GA21	MIR604 × GA21
Bt11 × MIR162 × MIR604 × GA21	X	X	X	X	X	X
Bt11 × MIR162 × MIR604	X	X	—	X	—	—
Bt11 × MIR162 × GA21	X		X	—	X	—
Bt11 × MIR604 × GA21	—	X	X	—	—	X
MIR162 × MIR604 × GA21	—	—	—	X	X	X
Bt11 × MIR162	X	—	—	—	—	—
Bt11 × MIR604	—	X	—	—	—	—
Bt11 × GA21	—	—	X	—	—	—
MIR162 × MIR604	—	—	—	X	—	—
MIR162 × GA21	—	—	—	—	X	—
MIR604 × GA21	—	—	—	—	—	X

### 3.3.1.6 Use of Multiple Languages

The search terms used were in the English language or utilized the Roman alphabet. For the event name and trade names that do not use words in the English language, translations are unlikely to exist.

### 3.3.1.7 Time Period

Due to the use of multiple (i.e., 4) multi-disciplinary databases and redundancy in coverage, it is unlikely that late edition of a publication would be missed. Therefore, the returned literature was limited to that which was published between June 1, 2020 and the date of the last database update prior to the search. Searches were executed on or after July 1, 2021.

Internet websites were searched, and the results were manually excluded if the records were dated outside the period of June 1, 2020 and the date the search was conducted. Searches were executed on or after July 1, 2021. If a date was undetermined on an internet website or result record, the result(s) was reviewed using the criteria in Tables 3 and 4.

### 3.3.1.8 Internet Searching of Regulatory Agency Webpages

The search terms selected are the event and protein names from the International Service for the Acquisition of Agri-Biotech Applications (ISAAA) (Table 8). The descriptions and information for the top 50 hits or 10% of the total hits (whichever is greater) for each search term/web page was collected.

Internet websites were searched and the results were manually excluded if the records were dated outside the period of June 1, 2020 until July 1, 2021. If a date was undetermined on an internet website or result record, the results were reviewed using the criteria in Tables 3 and 4.

**TABLE 8 Nomenclature For the Single Event and Newly Expressed Proteins from the ISAAA Database for use in Searching Regulatory Agency Web Pages**

Event	Search term	Concepts/Key Elements
Bt11	Bt11	Event name
Bt11	Cry1Ab	Newly expressed protein
Bt11	Phosphinothricin acetyltransferase	Newly expressed protein
MIR162	MIR162	Event name
MIR162	Vip3Aa20	Newly expressed protein
MIR604	MIR604	Event name
MIR604	mCry3A	Newly expressed protein
MIR162 and MIR604	Phosphomannose isomerase	Newly expressed protein
GA21	GA21	Event name
GA21	Modified 5-enolpyruvylshikimate-3-phosphate synthase enzyme	Newly expressed protein

### 3.4 Reference Publications

The search strategy is the same as the one that was previously validated with reference publications [REDACTED]

## 4.0 SUMMARIZING AND REPORTING THE DATA

### 4.1 Selecting Publications

#### 4.1.1 Database Records

The process for selecting relevant publications is conducted in two stages. The first stage, Stage 1 requires a preliminary assessment of titles and abstracts. Those records that are clearly not relevant from reviewing the title only are excluded from further review. For those records that appear relevant or have unclear relevance, the abstracts are reviewed. A kappa test is performed after the Stage 1 review and before any discussion of abstracts over which there was disagreement by the reviewers. Those records that are clearly not relevant from reviewing the abstract are excluded from further review, while records that are relevant or have unclear relevance are reviewed in Stage 2.

Full-length articles are reviewed in Stage 2. An explanation of exclusion is provided for any full-length records that are deemed not relevant in Stage 2. Any relevant records identified in Stage 2 are subjected to reliability assessment and evaluation of the implications of the record on the food and feed, or environmental risk assessments.

Two independent reviewers examined the records for inclusion/exclusion for each eligible information/data requirement at all stages of review. During the preliminary assessment process (Stage 1), only records that were deemed clearly not relevant by all reviewers were excluded from further review. This conservative approach ensured that all potentially relevant records were evaluated until they were deemed to be either relevant or clearly not relevant in Stage 2. Following the Stage 1 reviews, reviewers scored the records as either 1) relevant or unclear relevance, 2) clearly not relevant.

#### **4.1.2 Internet Records from Key Organizations**

The records returned from searching the websites of key organizations were considered relevant if they were risk assessments, scientific opinions/reports concerning the commercial release of GMO being examined or documents on the biology of the crop of interest sponsored by the key organization. The regulatory agency webpages that were searched do not post primary data; therefore, all other document types were not considered relevant. The eligibility/inclusion criteria do not include risk assessments/dossiers submitted to regulatory authorities, only risk assessments performed and reported by relevant key organizations. Documents must have been authored by the key organizations and not the applicants to qualify as relevant.

The format of records returned from regulatory agency websites does not often meet those (i.e., title and abstract is not often provided) required to assess them using the 2-stage process followed for the database records. Those websites at which the records are published in English were assessed by two independent reviewers. Due to their format, internet full-text documents were assessed to determine their relevance in stage 2 only. For those websites where the records are not published in English, the results were translated into English and two independent reviewers determined if it met the criteria for inclusion.

The rationale for exclusion was provided only when records were classified as one of the relevant document types and were authored by the agency and excluded based on other eligibility criteria.

The following process applied to the types of internet agency documents described below. We defined a unique internet record, for the purpose of reporting the statistics, as a unique URL. Documents clearly labeled as draft or with a line for a signature that is blank were not reviewed and were classified as not relevant. If the URLs for two documents were identical except for file format (e.g., pdf versus .doc or .docx), one of the documents was considered a duplicate document and it was excluded from statistical accounting. For the group of relevant records, it was confirmed that there were no duplicate records in that group by visual examination.

#### **4.2 Results of the Publication Selection Process**

For electronic bibliographic databases, the date on which the search was conducted, the date of the most recent update of the database, the service provider used, date span of the search, any limits applied to the search (e.g., study types, dates, languages) and the total number of records retrieved across all databases was recorded (Table 9). The records were de-duplicated after combining records retrieved from all the databases. Additionally, the line-by-line strategy with the number of publications identified per line was presented in the final report. See Appendix A.

Of the 131 records reviewed from the databases at Stage 1, both the reviewers agreed to exclude all of the 131 records. This yielded a kappa test score of 0. Because of the format of documents retrieved from internet searching of key organizations (i.e., title and abstract is not often provided) the kappa test was conducted only on the output of the database search. Since all of the 131 records were excluded, no subsequent steps of reviews were carried out and no tie breaker review was needed.

For records from websites, the following were recorded (if available): the website name and service publisher used, justification for choosing the source, the URL, the date on which the search was conducted, the date of the most recent website update at the time it was searched, the date span of the search, the search terms used, any limits to the search, and the number of relevant records retrieved (Table 10). The results of the selection process from both database and internet searches are recorded in Table 11.

Of the 23 records reviewed from the internet records from key organizaions, both the reviewers agreed to exclude all of the 23 records (Table 12).

### **4.3 Relevant Publications**

The reviewers determined that zero publications were relevant for this scoping review.

### **4.4 Excluded Publications After Detailed Assessment of Full-Text Documents**

The reviewers determined that zero publications from the review were relevant for this scoping review. Therefore, all 23 records reviewed from the internet records from key organizaions were excluded (Table 12).

### **4.5 Unobtainable Publications**

No publications were considered unobtainable.

### **4.6 Unclear Publications**

No publications were considered unclear.

### **4.7 Full-Text Documents**

No publications were considered relevant for full-text documents.

### **4.8 Implications of Relevant Publications on Risk Assessment**

No publications were considered relevant for full-text documents.

**TABLE 9            Electronic Bibliographic Database Search Results**

Database	Search Date dd/mm/yyyy	Service provider	Date span of the search dd/mm/yyyy <sup>a</sup>	Any limits applied to the search	Number of records retrieved <sup>b</sup>
Agricola	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	73
BIOSIS Previews	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	229
CAB Abstracts	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	157
Medline	09/07/2021	Ovid Technologies	01/06/2020– 01/07/2021	Dates	167
Total					626

<sup>a</sup>Ovid only allows results to be limited by year. The frequency of database update varies. Ovid has provided us with the following update information: Agricola updated monthly on the 1<sup>st</sup> of the month, BIOSIS Previews updated weekly on Mondays, CAB Abstracts updated weekly on Mondays and Medline updated daily.

<sup>b</sup>The results were de-duplicated after combining records retrieved from all the databases.



**TABLE 10 Regulatory Agency Webpage Search Details**

Regulatory agency name	URL	Date of search dd/mm/yyyy	Date of most recent website update dd/mm/yyyy	Date span of search <sup>a</sup>	Total number of records retrieved after removing duplicates	Number of relevant records
Health Canada <sup>b</sup>	<a href="https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html">https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html</a>	21/07/2021	21/04/2021	No limitations	9	0
Ministry of Agriculture, Forestry and Fisheries	<a href="http://www.maff.go.jp/e/">http://www.maff.go.jp/e/</a>	07/07/2021	NA	No limitations	12	0
National Technical Commission on Biosafety <sup>c</sup>	<a href="http://ctnbio.mcti.gov.br/">http://ctnbio.mcti.gov.br/</a>	01/07/2021	NA	No limitations	2	0
Office of the Gene Technology Regulator	<a href="http://www.ogtr.gov.au/">http://www.ogtr.gov.au/</a>	16/07/2021	16/07/2021	No limitations	0	0
US Environmental Protection Agency	<a href="https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated">https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated</a>	20/07/2021	14/07/2021	No limitations	0	0

<sup>a</sup>Records published prior to June 1, 2020 were manually excluded (if any).

<sup>b</sup>Searching these two websites leads to the same documents as the document results from the Health Canada website Environment and Climate Change Canada (<https://www.canada.ca/en/environment-climate-change.html>) and Canadian Food Inspection Agency (<http://www.inspection.gc.ca/plants/plants-with-novel-traits/notices-of-submission/eng/1300143491851/1300143550790>)

<sup>c</sup>Partial reports are excluded from review and statistics since there is no new information contained in these reports and they are not the official final opinion of the agency.  
NA= Not Applicable

**TABLE 11 Results of the Publication Selection Process, for Each Review Question and or Group of Information/data Requirements Searched**

<b>Review question and/or category of information/data requirement(s) captured in the search</b>	<b>Subcategories</b>	<b>Number of publications</b>
Publications identified after all <sup>a</sup> searches of the scientific literature (excluding duplicates*)	Databases	131
	Internet	23
	Manual	0
	<b>Total</b>	154
Publications excluded from the search results after screening of title and abstracts (stage 1)	Databases	131
	Internet <sup>b</sup>	NA
	Manual	0
	<b>Total</b>	131
Publications screened using full-text (stage 2)	Databases	0
	Internet	23
	Manual	0
	<b>Total</b>	23
Publications excluded after full-text screening	Databases	0
	Internet	23
	Manual	0
	<b>Total</b>	23
Unobtainable / Unclear publications	Unobtainable	0
	Unclear	0
	<b>Total</b>	0
Publications considered relevant	Databases	0
	Internet	0
	References	0
	<b>Total</b>	0

<sup>a</sup> A total of 626 publications were identified from the database search, of them 495 publications were duplicates and were removed.

<sup>a</sup> Both from electronic bibliographic databases and other sources of scientific literature.

<sup>b</sup> Internet results are not screened at stage 1 because they have no title or abstract.

NA= Not Applicable

**TABLE 12 Report of all the Publications Excluded from Risk Assessment after Detailed Assessment of Full-Text Internet Documents**

List of references for publications excluded from the risk assessment, classified by authors			
Study (Author(s) and year)	Title	Source	Reason(s) for exclusion based on eligibility/inclusion criteria table
Health Canada (2020)	Decision Documents – Determination of Environmental and Livestock Feed Safety - Canadian Food Inspection Agency	<a href="https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/approved-under-review/decision-documents/eng/1303704378026/1303704484236">https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/approved-under-review/decision-documents/eng/1303704378026/1303704484236</a>	Information/data requirements
Health Canada (2020)	Publications - Genetics, Tree Improvement, and Biodiversity   Canadian Forest Service Publications   Natural Resources Canada	<a href="http://cfs.nrcan.gc.ca/subjects/read/7?format=citation&amp;page=50&amp;sort=title">http://cfs.nrcan.gc.ca/subjects/read/7?format=citation&amp;page=50&amp;sort=title</a>	Information/data requirements
Health Canada (2020)	Plants with novel traits (PNT) and novel feeds from plant sources approved in Canada - Canadian Food Inspection Agency	<a href="http://cfs.nrcan.gc.ca/subjects/read/7?page=35&amp;sort=author">http://cfs.nrcan.gc.ca/subjects/read/7?page=35&amp;sort=author</a>	Information/data requirements
Health Canada (2021)	Completed safety assessments of novel foods including genetically modified (GM) foods	<a href="https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html">https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products.html</a>	Information/data requirements
Health Canada (2021)	Novel food information: Herbicide Tolerant HT4 Maize	<a href="https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products/herbicide-tolerant-ht4-maize/document.html">https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products/herbicide-tolerant-ht4-maize/document.html</a>	Stacked events/subcombinations
Health Canada (2021)	Novel Food Information: Highly Refined DHA-Enhanced Oil Derived from NS-B50027-4 Canola	<a href="https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products/highly-refined-dha-enhanced-oil-derived-ns-b50027-4-canola/technical-summary.html">https://www.canada.ca/en/health-canada/services/food-nutrition/genetically-modified-foods-other-novel-foods/approved-products/highly-refined-dha-enhanced-oil-derived-ns-b50027-4-canola/technical-summary.html</a>	Plant species
Health Canada (2021)	Plants with novel traits (PNT) and novel feeds from plant sources approved in Canada - Canadian Food Inspection Agency	<a href="https://inspection.canada.ca/active/netapp/plantnoveltraitpnt-vegecanouvcn/pntvcne.aspx">https://inspection.canada.ca/active/netapp/plantnoveltraitpnt-vegecanouvcn/pntvcne.aspx</a>	Information/data requirements
Health Canada (2021)	Regulating the Environmental Release of Stacked Plant Products in Canada - Canadian Food Inspection Agency	<a href="https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/approved-under-review/stacked-traits/eng/1337653008661/1337653513037">https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/approved-under-review/stacked-traits/eng/1337653008661/1337653513037</a>	Information/data requirements

Health Canada (2021)	The biology of Zea mays L. (maize) - Canadian Food Inspection Agency	<a href="https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/applicants/directive-94-08/biology-documents/zea-mays-l-maize-/eng/1330985739405/1330985818367">https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/applicants/directive-94-08/biology-documents/zea-mays-l-maize-/eng/1330985739405/1330985818367</a>	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF 2020)	Recombinant DNA technology application Feed safety confirmation DHA production and herbicides ...	<a href="https://www.maff.go.jp/j/council/sizai/siryou/54/attach/pdf/index-9.pdf">https://www.maff.go.jp/j/council/sizai/siryou/54/attach/pdf/index-9.pdf</a>	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF 2020)	Application form, etc. [PDF 776 KB]	<a href="https://www.affrc.maff.go.jp/docs/commitee/diversity/attach/pdf/20210219-6.pdf">https://www.affrc.maff.go.jp/docs/commitee/diversity/attach/pdf/20210219-6.pdf</a>	Stacked events/subcombinations
Ministry of Agriculture, Forestry and Fisheries (MAFF 2020)	Application form, etc. [PDF 2.3 MB]	<a href="https://www.affrc.maff.go.jp/docs/commitee/diversity/attach/pdf/20210219-9.pdf">https://www.affrc.maff.go.jp/docs/commitee/diversity/attach/pdf/20210219-9.pdf</a>	Stacked events/subcombinations
Ministry of Agriculture, Forestry and Fisheries (MAFF 2020)	Recombinant DNA technology application Feed safety confirmation Herbicide glyphosate-induced ...	<a href="https://www.maff.go.jp/j/council/sizai/siryou/55/attach/pdf/index-12.pdf">https://www.maff.go.jp/j/council/sizai/siryou/55/attach/pdf/index-12.pdf</a>	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF 2020)	Recombinant DNA technology application Feed safety confirmation Yield increase and herbicides ...	<a href="https://www.maff.go.jp/j/council/sizai/siryou/55/attach/pdf/index-13.pdf">https://www.maff.go.jp/j/council/sizai/siryou/55/attach/pdf/index-13.pdf</a>	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	[Movements surrounding China's grain imports-Part 1] Feed demand in China is ...	<a href="http://www.maff.go.jp/j/zyukyu/jki/j_rep/monthly/201405/pdf/21_motnthly_topics_china_im_1405.pdf">http://www.maff.go.jp/j/zyukyu/jki/j_rep/monthly/201405/pdf/21_motnthly_topics_china_im_1405.pdf</a>	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	cry1Ab , cry1F, cry1A.105, cry2Ab2, cry1Ac, vip3A, cry3Bb1, cry3Aa2 ...	<a href="http://www.maff.go.jp/j/syouan/nouan/carta/c_data/pdf/gutairei.pdf">http://www.maff.go.jp/j/syouan/nouan/carta/c_data/pdf/gutairei.pdf</a>	Information/data requirements

Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Document 5-1	<a href="http://www.maff.go.jp/j/council/sizai/siryoku/22_21/pdf/data5-1.pdf">http://www.maff.go.jp/j/council/sizai/siryoku/22_21/pdf/data5-1.pdf</a>	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Document 5-2	<a href="http://www.maff.go.jp/j/council/sizai/siryoku/22_21/pdf/data5-2.pdf">http://www.maff.go.jp/j/council/sizai/siryoku/22_21/pdf/data5-2.pdf</a>	Information/data requirements
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Document 5-2	<a href="http://www.maff.go.jp/j/council/sizai/siryoku/24_23/pdf/data5-2.pdf">http://www.maff.go.jp/j/council/sizai/siryoku/24_23/pdf/data5-2.pdf</a>	Scope of GMO application
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	ref_data5.pdf	<a href="https://www.maff.go.jp/j/council/seisaku/eisei/bunkakai/04/pdf/ref_data5.pdf">https://www.maff.go.jp/j/council/seisaku/eisei/bunkakai/04/pdf/ref_data5.pdf</a>	Plant species
Ministry of Agriculture, Forestry and Fisheries (MAFF n.d.)	Specific examples of genetically modified plants that may eliminate the need for isolation field tests cry1Ab ...	<a href="http://www.maff.go.jp/j/syouan/nouan/carta/tetuduki/attach/pdf/index-19.pdf">http://www.maff.go.jp/j/syouan/nouan/carta/tetuduki/attach/pdf/index-19.pdf</a>	Information/data requirements
National Technical Commission on Biosafety (CTNBio 2021)	Tabela de Plantas Aprovadas para Comercialização	<a href="http://ctnbio.mctic.gov.br/documents/566529/1684467/Tabela+de+Plantas+Aprovadas+para+Comercializa%C3%A7%C3%A3o/">http://ctnbio.mctic.gov.br/documents/566529/1684467/Tabela+de+Plantas+Aprovadas+para+Comercializa%C3%A7%C3%A3o/</a>	Information/data requirements
National Technical Commission on Biosafety (CTNBio n.d.)	Apresentação Leila Oda.pps	<a href="http://ctnbio.mctic.gov.br/documents/566529/673136/Apresenta%C3%A7%C3%A3o+Leila+Oda.pps">http://ctnbio.mctic.gov.br/documents/566529/673136/Apresenta%C3%A7%C3%A3o+Leila+Oda.pps</a>	Information/data requirements

## 5.0 REFERENCES

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- EFSA. 2010. Scientific Opinion on the environmental risk assessment of genetically modified plants. The EFSA Journal (8) 11 (1879):1-111.
- EFSA. 2019. Explanatory note on literature searching conducted in the context of GMO applications for (renewed) market authorization and annual post-market environmental monitoring reports on GMOs authorized in the EU market. EFSA supporting publications 2019:EN-1614. 62 pp. doi:10.2903/sp.efsa.2019.EN-1614.

## **APPENDIX SECTION**

## **APPENDIX A Search History and Subject Indexing**



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<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	Bt11.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	97	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<a href="#">Contract</a>
<input type="checkbox"/>	2	Bt 11.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	25	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	3	SYN-BT?11-1.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	4	1 or 2 or 3	120	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	5	MIR162.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	29	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	6	MIR 162.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	7	SYN-IR162-4.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	8	5 or 6 or 7	32	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	9	MIR604.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	24	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	10	MIR 604.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	11	SYN-IR6?4-5.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	12	9 or 10 or 11	26	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	13	GA21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	50	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	14	GA 21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	15	GA21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	16	GA 21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	17	"MON ØØØ21*".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	18	MON ØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	19	MON 00021*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	20	MON empty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	21	"MONØØØ21*".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	22	MONØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	23	MON00021*.mp. [mp=meeting information, title, original	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	

<https://ovidsp.dc2.ovid.com/ovid-a/ovidweb.cgi>

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		title, map information, note, abstract, heading words]					
<input type="checkbox"/>	24	M0Nempty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	25	"M0N ØØØ21*".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	26	M0N ØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	27	M0N ØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	28	M0N empty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	29	"M0NØØØ21*".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	30	M0NØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	31	M0NØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	32	M0Nempty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	33	13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32	59	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	34	8 or 12 or 33	108	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	35	4 and 34	32	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	36	12 or 33	79	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	37	8 and 36	3	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	38	12 and 33	6	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	39	35 or 37 or 38	33	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	40	Agrisure*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	19	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	41	Cry1Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	915	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	42	Cry 1Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	15	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	43	Cry1 Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	44	Cry 1 Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	45	Cry1Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	35	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	46	Cry 1Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	47	Cry1 Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	48	Cry I Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	49	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	961	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	50	Phosphinothricin N acetyltransferase.mp. [mp=meeting information, title, original title, map information, note,	21	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		

https://ovidsp.dc2.ovid.com/ovid-a/ovidweb.cgi

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		abstract, heading words]					
<input type="checkbox"/>	51	Phosphinothricin N acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	52	Phosphinothricin acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	218	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	53	Phosphinothricin acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	48	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	54	PPT acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	55	PPT acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	56	PT N acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	57	PT N acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	58	Glufosinate acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	59	Glufosinate acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	60	Gluphosinate acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	61	Gluphosinate acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	62	pat.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2654	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	63	111069-93-3.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	64	"EC 2.3.1.183".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	65	"E.C. 2.3.1.183".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	66	50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65	2842	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	67	Vip3AA20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	17	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	68	Vip3 AA20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	69	Vip3 AA 20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	70	Vip3A A 20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	71	67 or 68 or 69 or 70	17	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	72	Phosphomannoisomerase.mp. [mp=meeting information, title, original title, map information, note, abstract,	3	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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heading words]						
<input type="checkbox"/>	73	Mannose 6-phosphate isomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	42	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	74	Phosphomannose isomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	75	Phosphomannose isomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	114	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	76	9023-88-5.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	77	AAA24109.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	78	"EC 5.3.1.8".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	79	"E.C. 5.3.1.8".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	80	72 or 73 or 74 or 75 or 76 or 77 or 78 or 79	150	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	81	mCry3A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	33	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	82	mCry 3A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	83	mCry 3 A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	84	Cry3A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	148	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	85	Cry 3A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	86	Cry 3 A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	87	81 or 82 or 83 or 84 or 85 or 86	177	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	88	5 enol pyruvyl shikimate 3 phosphate synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	13	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	89	5 enolpyruvyl shikimate 3 phosphate synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	25	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	90	5 enolpyruvylshikimate 3 phosphate synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	279	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	91	EPSP synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	69	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	92	MEPSP synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	93	EPSPS.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	495	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	94	MEPSPS.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	6	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	95	"EC 2.5.1.1.9".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	20	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	96	"E.C. 2.5.1.19".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	20	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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<input type="checkbox"/>	97	88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96	662	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	98	71 or 80 or 87 or 97	995	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	99	49 and 98	38	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	100	71 or 80 or 87 or 97	995	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	101	66 and 100	40	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	102	87 or 97	836	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	103	71 and 102	4	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	104	80 and 97	4	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	105	87 and 97	3	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	106	99 or 101 or 103 or 104 or 105	76	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	107	Insect.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	189989	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	108	Insects.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	241742	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	109	coleoptera*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	42430	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	110	lepidoptera*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	38851	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	111	pest.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	73680	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	112	pests.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	343147	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	113	stalkborer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	30	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	114	stalk borer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	351	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	115	borer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	10496	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	116	cornborer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	14	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	117	corn borer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2857	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	118	noctuidae.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7867	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	119	Crambidae.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1079	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	120	Chrysomelidae.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4876	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	121	earworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1068	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	122	ear worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	41	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	123	armyworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3219	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	124	army worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	153	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	125	cutworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1413	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	126	cut worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	34	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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<input type="checkbox"/>	127	rootworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1536	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	128	root worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	42	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	129	Ostrinia.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2601	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	130	O nubilalis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	293	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	131	Diatraea.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1024	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	132	D grandiosella.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	22	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	133	D crambidoides.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	134	Helicoverpa.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	5143	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	135	H zea.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	492	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	136	Spodoptera.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	8598	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	137	S frugiperda.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	550	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	138	S exigua.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	573	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	139	Papaipema.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	68	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	140	P nebris.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	141	Elasmopalpus.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	141	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	142	E lignosellus.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	11	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	143	D saccharalis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	137	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	144	Striacosta.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	35	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	145	S albicosta.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	16	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	146	Agrotis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1072	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	147	A ipsilon.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	92	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	148	Feltia.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	43	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	149	F jaculifera.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	150	Pseudaletia.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	454	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	151	P unipuncta.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	23	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	152	Diabrotica.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1946	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	153	D virgifera.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	64	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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<input type="checkbox"/>	154	D barberi.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	57	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	155	ECB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	347	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	156	SWCB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	33	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	157	SCSB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	158	CEW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	82	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	159	FAW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	175	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	160	SCB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	526	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	161	WBC.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1664	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	162	WCRW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	163	WCR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	240	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	164	NCRW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	165	MCR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1160	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	166	MCRW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	167	107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 or 121 or 122 or 123 or 124 or 125 or 126 or 127 or 128 or 129 or 130 or 131 or 132 or 133 or 134 or 135 or 136 or 137 or 138 or 139 or 140 or 141 or 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 or 150 or 151 or 152 or 153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166	497791	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	168	toleran*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	118733	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	169	resistan*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	297995	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	170	protect*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	280684	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	171	control*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	996464	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	172	168 or 169 or 170 or 171	1495326	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	173	((Insect or Insects or coleoptera* or lepidoptera* or pest or pests or stalkborer* or stalk borer* or borer* or comborer* or com borer* or noctuidae or Crambidae or Chrysomelidae or earworm* or ear worm* or armyworm* or army worm* or cutworm* or cut worm* or rootworm* or root worm* or Ostrinia or O nubilalis or Diatraea or D grandiosella or D crambidoides or Helicoverpa or H zea or Spodoptera or S frugiperda or S exigua or Papaipema or P nebris or Elasmopalpus or E lignosellus or D saccharalis or Striacosta or S albicosta or Agrotis or A ipsilon or Feltia or F jaculifera or Pseudaletia or P unipuncta or Diabrotica or D virgifera or D barberi or ECB or SWCB or SCSB or CEW or FAW or SCB or WBC or WCRW or WCR or NCRW or MCR or MCRW) adj2 (toleran* or resistan* or protect* or control*)).mp.	120524	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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<input type="checkbox"/>	174	B thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1712	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	175	Bacillus thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	10817	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	176	glufosinate*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1235	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	177	gluphosinate*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	8	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	178	Basta*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	477	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	179	Liberty*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	642	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	180	Ignite*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	852	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	181	Rely*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	19030	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	182	Finale*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	107	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	183	Challenge*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	137718	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	184	gl?fosate.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7811	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	185	gl?fosate.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	186	roundup*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1350	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	187	round up*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	132	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	188	herbicide*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	57827	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	189	pesticide*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	127013	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	190	176 or 177 or 178 or 179 or 180 or 181 or 182 or 183 or 184 or 185 or 186 or 187 or 188 or 189	320754	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	191	toleran*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	118733	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	192	resistan*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	297995	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	193	protect*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	280684	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	194	191 or 192 or 193	643901	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	195	((glufosinate* or gluphosinate* or Basta* or Liberty* or Ignite* or Rely* or Finale* or Challenge* or gl?fosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*)).mp.	10338	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	196	173 or 174 or 175 or 195	137452	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	197	GMO*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1563	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	198	LMO*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	583	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	199	GM.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	8118	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	200	GE.mp. [mp=meeting information, title, original title, map	5843	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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		information, note, abstract, heading words]					
<input type="checkbox"/>	201	transgen*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	53695	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	202	genetic*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	636904	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	203	living.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	60524	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	204	biotech*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	47024	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	205	202 or 203 or 204	728772	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	206	modifi*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	255021	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	207	transform*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	181673	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	208	manipulat*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	41486	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	209	improv*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	557913	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	210	engineer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	147392	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	211	deriv*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	308361	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	212	206 or 207 or 208 or 209 or 210 or 211	1281876	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	213	((genetic* or living or biotech*) adj3 (modifi* or transform* or manipulat* or improv* or engineer* or deriv*)).mp.	61871	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	214	stack*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	15200	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	215	197 or 198 or 199 or 200 or 201 or 213 or 214	123363	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	216	196 and 215	7821	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	217	GMHT.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	28	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	218	GEHT.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	80	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	219	GMHR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	220	GEHR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	221	GMHTs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	222	GEHTs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	5	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	224	GEHRs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	225	217 or 218 or 219 or 220 or 221 or 222 or 223 or 224	118	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	226	216 or 225	7911	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	227	Maize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	69677	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	228	corn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	137687	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	229	Zea mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	52068	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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<input type="checkbox"/>	230	Z mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	373	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	232	226 and 231	1911	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	233	Bt.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7040	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	234	Bacillus thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	10817	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	235	B thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1712	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	236	233 or 234 or 235	14440	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	237	maize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	69677	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	238	corn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	137687	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	239	mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	52252	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	240	237 or 238 or 239	178526	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	241	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	1281	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	242	Btmaize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	243	Btcorn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	244	241 or 242 or 243	1282	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	245	39 or 40 or 106 or 232 or 244	2266	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	246	limit 245 to yr="2020 -Current"	73	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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**AGRICOLA** 1970 to June 2021

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☐ Title

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- 111069-93-3
- enol
- pyruvyl
- shikimate
- phosphate
- synthase
- enolpyruvyl
- enolpyruvylshikimate
- 9023-88-5
- a
- ippsilon
- aaa24109
- agrisure\*
- agrotis
- army
- worm\*
- armyworm\*
- b
- thuringiensis
- bacillus
- basta\*
- biotech\*
- borer\*
- bt
- bt11
- btcorn\*
- btmaize\*
- cew
- challenge\*
- chrysomelidae
- coleoptera\*
- control\*
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- combore\*
- crambidae
- cry
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- 3a\*
- i
- iab\*
- cry1
- cry1ab\*
- cry3a\*
- cryi
- cryiab\*
- cut
- cutworm\*
- d
- barberi
- cramboides
- grandiosella
- saccharalis
- virgifera
- deriv\*
- diabrotica
- diatraea




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☐ 3. [Extended investigation of field-evolved resistance of the corn earworm \*Helicoverpa zea\* \(Lepidoptera: Noctuidae\) to \*Bacillus thuringiensis\* Cry1A.105 and Cry2Ab2 proteins in the southeastern United States](#)

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<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	Bt11.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	250	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<a href="#">Contract</a>
<input type="checkbox"/>	2	Bt 11.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	79	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	3	SYN-BT?11-1.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	4	1 or 2 or 3	326	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	5	MIR162.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	104	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	7	SYN-IR162-4.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	8	5 or 6 or 7	116	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	9	MIR604.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	67	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	10	MIR 604.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	9	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	11	SYN-IR6?4-5.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
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<input type="checkbox"/>	17	"MON ØØØ21*".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	5	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	22	MONOOO21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
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<input type="checkbox"/>	33	13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32	159	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	34	8 or 12 or 33	309	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	35	4 and 34	85	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	36	12 or 33	206	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	37	8 and 36	13	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	38	12 and 33	29	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	39	35 or 37 or 38	96	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	42	Cry 1Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	53	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	44	Cry 1 Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	16	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	46	Cry lAb*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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<input type="checkbox"/>	47	CryI Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
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<input type="checkbox"/>	49	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	2129	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	50	Phosphinothricin N acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	48	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	58	Glufosinate acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	59	Glufosinate acetyl transferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	60	Gluphosinate acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
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<input type="checkbox"/>	62	pat.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	7024	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	63	111069-93-3.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	145	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	65	"E.C. 2.3.1.183".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	49	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	66	50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65	7239	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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		title (non-english), book title (english), title, heading words]					
<input type="checkbox"/>	69	Vip3 AA 20*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	70	Vip3A A 20*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	71	67 or 68 or 69 or 70	45	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
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<input type="checkbox"/>	74	Phosphomannoseisomerase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
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<input type="checkbox"/>	76	9023-88-5.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	371	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
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<input type="checkbox"/>	78	"EC 5.3.1.8".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	310	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	79	"E.C. 5.3.1.8".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	310	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	80	72 or 73 or 74 or 75 or 76 or 77 or 78 or 79	650	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	81	mCry3A*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	72	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	82	mCry 3A*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>		
<input type="checkbox"/>	83	mCry 3 A*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
<input type="checkbox"/>	84	Cry3A*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	345	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
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<input type="checkbox"/>	87	81 or 82 or 83 or 84 or 85 or 86	413	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		
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<input type="checkbox"/>	91	EPSP synthase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	256	Advanced	<a href="#">Display Results</a> <a href="#">More</a>		

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	words]					
<input type="checkbox"/>	92	MEPSP synthase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
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<input type="checkbox"/>	94	MEPSPS.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	63	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	98	71 or 80 or 87 or 97	6283	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	99	49 and 98	106	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	100	71 or 80 or 87 or 97	6283	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	105	87 and 97	11	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	106	99 or 101 or 103 or 104 or 105	169	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	107	Insect.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	189067	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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		(non-english), book title (english), title, heading words]					
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<input type="checkbox"/>	142	E lignosellus.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	19	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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	words]					
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<input type="checkbox"/>	151	P unipuncta.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	46	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	167	107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 or 121 or 122 or 123 or 124 or 125 or 126 or 127 or 128 or 129 or 130 or 131 or 132 or 133 or 134 or 135 or 136 or 137 or 138 or	1251657	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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	139 or 140 or 141 or 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 or 150 or 151 or 152 or 153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166					
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<input type="checkbox"/>	173 ((Insect or Insects or coleoptera* or lepidoptera* or pest or pests or stalkborer* or stalk borer* or borer* or cornborer* or corn borer* or noctuidae or Crambidae or Chrysomelidae or earworm* or ear worm* or armyworm* or army worm* or cutworm* or cut worm* or rootworm* or root worm* or Ostrinia or O nubilalis or Diatraea or D grandiosella or D crambidoides or Helicoverpa or H zea or Spodoptera or S frugiperda or S exigua or Papaipema or P nebris or Elasmopalpus or E lignosellus or D saccharalis or Striacosta or S albicosta or Agrotis or A ipsilon or Feltia or F jaculifera or Pseudaletia or P unipuncta or Diabrotica or D virgifera or D barberi or ECB or SWCB or SCSB or CEW or FAW or SCB or WBC or WCRW or WCR or NCRW or MCR or MCRW) adj2 (toleran* or resistan* or protect* or control*)).mp.	441537	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	174 B thuringiensis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	4106	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	175 Bacillus thuringiensis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	19208	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	176 glufosinate*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1832	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	177 gluphosinate*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	19	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	187	round up*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	398	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	194	191 or 192 or 193	2659056	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	195	((glufosinate* or gluphosinate* or Basta* or Liberty* or Ignite* or Rely* or Finale* or Challenge* or gl?phosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*')).mp.	19213	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	206	modif*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1110692	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	215	197 or 198 or 199 or 200 or 201 or 213 or 214	580799	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	216	196 and 215	19073	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	225	217 or 218 or 219 or 220 or 221 or 222 or 223 or 224	144	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	226	216 or 225	19136	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	227	Maize*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	112016	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	229	Zea mays.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	58827	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	230	Z mays.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	843	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	231	227 or 228 or 229 or 230	355139	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	232	226 and 231	3752	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	244	241 or 242 or 243	2242	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	245	39 or 40 or 106 or 232 or 244	4789	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	246	limit 245 to yr="2020 -Current"	229	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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(expand)

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☐ Map Term to Subject Heading

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limit 245 to yr="2020 -Current"

Search terms used:

1

3

5

11

21

162

604

111069-93-3

enol

pyruvyl

shikimate

phosphate

synthase

enolpyruvyl

enolpyruvylshikimate

9023-88-5

a

ipislon

aaa24109

agrisure\*

agrotis

army

worm\*

armyworm\*

b

thuringiensis

bacillus

basta\*

biotech\*

borer\*

bt

bt11

btcorn\*

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☐ 5. **Bacillus thuringiensis as microbial biopesticide: uses and application for sustainable agriculture**

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- btmaize\*
- cew
- challenge\*
- chrysomelidae
- coleoptera\*
- control\*
- com
- com\*
- comborer\*
- crambidae
- cry
- ab\*
- 1ab\*
- a\*
- 3a\*
- i
- iab\*
- cry1
- cry1ab\*
- cry3a\*
- cryi
- cryiab\*
- cut
- cutworm\*
- d
- barberi
- cramboides
- grandiosella
- saccharalis
- virgifera
- deriv\*
- diabrotica
- diatraea
- e
- lignosellus
- e.c.
- 2.3.1.183
- 2.5.1.19
- 5.3.1.8
- ear
- earworm\*
- ec
- 2.5.1.1.9
- ecb
- elasmopalpus
- engineer\*
- epsp
- epsps
- f
- jaculifera
- faw
- feltia
- finale\*
- ga
- 2i
- ga21
- ga2i
- ge
- gehr
- gehrs
- geht
- gehts
- genetic\*
- gl?fosate
- gl?phosate
- glufosinate

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acetyl  
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 acetyltransferase  
 glufosinate\*  
 gluphosinate  
 gluphosinate\*  
 gm  
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 mon000021\*  
 maize\*  
 manipulat\*  
 mannose  
 6-phosphate  
 isomerase  
 may  
 mcr  
 mcrw  
 mcrv  
 mcrv3a\*  
 mepsp  
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 mir  
 mir162  
 mir604  
 modif\*  
 mon  
 mon00021\*  
 monempty  
 monooo21\*  
 mon000021\*  
 ncrw  
 noctuidae  
 o  
 nubilalis  
 ostrinia  
 p  
 nebris  
 unipuncta  
 papalperma  
 pat

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pest  
pesticide\*  
pests  
phosphinothricin  
n  
phosphomannosyltransferase  
phosphomannose  
phosphomannosyltransferase  
ppt  
protect\*  
pseudotuberculosis  
pt  
rely\*  
resistant\*  
root  
rootworm\*  
round  
up\*  
roundup\*  
s  
albicostia  
exigua  
frugiperda  
scb  
scsb  
spodoptera  
stack\*  
stalk  
stalkborer\*  
striacosta  
swcb  
syn-bt?11-1  
syn-ir162-4  
syn-ir674-5  
toleran\*  
transform\*  
transgen\*  
vip3  
aa  
20\*  
aa20\*  
vip3a  
vip3aa20\*  
wbc  
wcr  
wcrw  
z

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<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	Bt11.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	227	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<a href="#">Contract</a>
<input type="checkbox"/>	2	Bt 11.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	54	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	4	1 or 2 or 3	275	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	5	MIR162.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	66	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	6	MIR 162.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	8	5 or 6 or 7	69	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	16	GA 21.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	17	"MON ØØØ21*".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	25	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	18	MON ØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	19	MON 00021*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	20	MON empty setempty setempty set21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	21	"MONØØØ21*".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	22	MONØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	23	MON00021*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	24	MONempty setempty setempty set21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers,	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	

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		cabicoes]					
<input type="checkbox"/>	25	"M0N ØØØ21*".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	26	M0N ØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	27	M0N 00021*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	28	M0N empty setempty setempty set21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	29	"M0NØØØ21*".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	30	M0NØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	31	M0N00021*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	32	M0Nempty setempty setempty set21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	33	13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32	141	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	34	8 or 12 or 33	230	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	35	4 and 34	68	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	36	12 or 33	172	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	37	8 and 36	11	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	38	12 and 33	21	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	39	35 or 37 or 38	72	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	40	Agrisure*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	29	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	41	Cry1Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	1561	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	42	Cry 1Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	39	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	43	Cry1 Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	17	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	44	Cry 1 Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	8	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	45	CrylAb*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	43	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	46	Cry lAb*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	2	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	47	Cryl Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	48	Cry l Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	49	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	1643	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	50	Phosphinothricin N acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	29	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	51	Phosphinothricin N acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicoes]	7	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	52	Phosphinothricin acetyltransferase.mp. [mp=abstract,	290	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		

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		title, original title, broad terms, heading words, identifiers, cabicodes]					
<input type="checkbox"/>	53	Phosphinothricin acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	55	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	54	PPT acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	4	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	56	PT N acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	57	PT N acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	58	Glufosinate acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	9	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	59	Glufosinate acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	60	Gluphosinate acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	61	Gluphosinate acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	62	pat.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2261	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	63	111069-93-3.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	64	"EC 2.3.1.183".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	65	"E.C. 2.3.1.183".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
<input type="checkbox"/>	66	50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65	2490	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	67	Vip3AA20*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	35	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	68	Vip3 AA20*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>	<a href="#">More</a>	
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<input type="checkbox"/>	71	67 or 68 or 69 or 70	35	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	72	Phosphomannoisomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	
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<input type="checkbox"/>	75	Phosphomannose isomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	152	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>	

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<input type="checkbox"/>	76	9023-88-5.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	77	AAA24109.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	78	"EC 5.3.1.8".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	80	72 or 73 or 74 or 75 or 76 or 77 or 78 or 79	232	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	81	mCry3A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	46	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	82	mCry 3A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	83	mCry 3 A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	84	Cry3A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	231	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	85	Cry 3A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	86	Cry 3 A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	87	81 or 82 or 83 or 84 or 85 or 86	275	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	88	5 enol pyruvyl shikimate 3 phosphate synthase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	16	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	89	5 enolpyruvyl shikimate 3 phosphate synthase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	43	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	90	5 enolpyruvylshikimate 3 phosphate synthase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	374	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	91	EPSP synthase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	115	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	95	"EC 2.5.1.1.9".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	23	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	97	88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96	1102	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	98	71 or 80 or 87 or 97	1626	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	99	49 and 98	87	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	100	71 or 80 or 87 or 97	1626	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	101	66 and 100	68	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	102	87 or 97	1372	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	103	71 and 102	7	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	104	80 and 97	4	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	105	87 and 97	5	Advanced		

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				<a href="#">Display Results</a>	<a href="#">More</a>	
<input type="checkbox"/>	106	99 or 101 or 103 or 104 or 105	146	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
<input type="checkbox"/>	107	Insect.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	387581	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
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<input type="checkbox"/>	109	coleoptera*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	133398	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
<input type="checkbox"/>	110	lepidoptera*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	170459	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
<input type="checkbox"/>	111	pest.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	419510	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
<input type="checkbox"/>	112	pests.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	411107	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
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<input type="checkbox"/>	114	stalk borer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	709	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
<input type="checkbox"/>	115	borer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	26919	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
<input type="checkbox"/>	116	cornborer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	25	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
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<input type="checkbox"/>	123	armyworm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	9623	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
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<input type="checkbox"/>	125	cutworm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2150	Advanced	<a href="#">Display Results</a>	<a href="#">More</a>
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<input type="checkbox"/>	133	D crambidoides.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	6	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	—
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<input type="checkbox"/>	136	Spodoptera.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	17378	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	139	Papaipema.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	53	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	140	P nebris.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	18	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	143	D saccharalis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	514	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	144	Striacosta.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	42	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	145	S albicosta.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	17	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	146	Agrotis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2796	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	147	A ipsilon.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	455	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	148	Feltia.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	81	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	149	F jaculifera.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	150	Pseudaletia.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	651	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	151	P unipuncta.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	38	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	152	Diabrotica.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3016	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	153	D virgifera.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	357	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	154	D barberi.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	146	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	155	ECB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	525	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	156	SWCB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	34	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	157	SCSB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	9	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	158	CEW.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	96	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	159	FAW.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	389	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	163	WCR.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	443	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	164	NCRW.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	165	MCR.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1373	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	167	107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 or 121 or 122 or 123 or 124 or 125 or 126 or 127 or 128 or 129 or 130 or 131 or 132 or 133 or 134 or 135 or 136 or 137 or 138 or 139 or 140 or 141 or 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 or 150 or 151 or 152 or 153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166	923006	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	168	toleran*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	242959	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	169	resistan*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	666081	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	170	protect*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	515307	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	171	control*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1986807	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	172	168 or 169 or 170 or 171	2884816	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	173	((Insect or Insects or coleoptera* or lepidoptera* or pest or pests or stalkborer* or stalk borer* or borer* or cornborer* or corn borer* or noctuidae or Crambidae or Chrysomelidae or earworm* or ear worm* or armyworm* or army worm* or cutworm* or cut worm* or rootworm* or root worm* or Ostrinia or O nubilalis or Diatraea or D grandiosella or D crambidoides or Helicoverpa or H zea or Spodoptera or S frugiperda or S exigua or Papaipema or P nebris or Elasmopalpus or E lignosellus or D saccharalis or Striacosta or S albicosta or Agrotis or A ipsilon or Feltia or F jaculifera or Pseudaletia or P unipuncta or Diabrotica or D virgifera or D barberi or ECB or SWCB or SCSB or CEW or FAW or SCB or WBC or WCRW or WCR or NCRW or MCR or MCRW) adj2 (toleran* or resistan* or protect* or control*)).mp.	189487	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	180	Ignite*.mp. [mp=abstract, title, original title, broad terms,	888	Advanced		



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<input type="checkbox"/>	183	Challenge*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	235071	Advanced	Display Results   More 
<input type="checkbox"/>	184	gl?phosate.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	19522	Advanced	Display Results   More 
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<input type="checkbox"/>	187	round up*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	213	Advanced	Display Results   More 
<input type="checkbox"/>	188	herbicide*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	148816	Advanced	Display Results   More 
<input type="checkbox"/>	189	pesticide*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	841241	Advanced	Display Results   More 
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<input type="checkbox"/>	192	resistan*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	666081	Advanced	Display Results   More 
<input type="checkbox"/>	193	protect*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	515307	Advanced	Display Results   More 
<input type="checkbox"/>	194	191 or 192 or 193	1272062	Advanced	Display Results   More 
<input type="checkbox"/>	195	((glufosinate* or gluphosinate* or Basta* or Liberty* or Ignite* or Rely* or Finale* or Challenge* or gl?phosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*)).mp.	26433	Advanced	Display Results   More 
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<input type="checkbox"/>	209	improv*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1046517	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	210	engineer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	195782	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	211	deriv*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	447233	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	212	206 or 207 or 208 or 209 or 210 or 211	2006400	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	213	((genetic* or living or biotech*) adj3 (modif* or transform* or manipulat* or improv* or engineer* or deriv*)).mp.	150343	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
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<input type="checkbox"/>	227	Maize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	283183	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
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<input type="checkbox"/>	230	Z mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1101	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	231	227 or 228 or 229 or 230	387469	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	232	226 and 231	3395	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	233	Bt.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	14954	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
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<input type="checkbox"/>	235	B thuringiensis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5794	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	236	233 or 234 or 235	29332	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	237	maize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	283183	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>

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<input type="checkbox"/>	238	corn*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	345536	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
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<input type="checkbox"/>	244	241 or 242 or 243	2254	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	245	39 or 40 or 106 or 232 or 244	4270	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>
<input type="checkbox"/>	246	limit 245 to yr="2020 -Current"	157	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	<input type="checkbox"/>

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- 2.5.1.19
- 5.3.1.8
- ear
- earworm\*
- ec
- 2.5.1.1.9
- ecb
- elasmopalpus
- engineer\*
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maize*
manipulat*
mannose
6-phosphate
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nebris
unipuncta
papaipema
pat
pest
pesticide*
pests
phosphinothricin
n
phosphomannoisomerase
phosphomannose
phosphomannoseisomerase
ppt
protect*
pseudaletia
pt
rely*
resistan*
root
rootworm*
round
up*
roundup*
s
albicosta
exigua
frugiperda
scb
scsb
spodoptera
stack*
stalk
stalkborer*
striacosta
swcb
syn-bt?11-1
syn-ir162-4
syn-ir674-5
toleran*
transform*
transgen*
vip3
aa
20*
aa20*
vip3a
vip3aa20*
wbc
wcr
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z
<b>Search Returned:</b>
157 text results

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<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	Bt11.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	106	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	<a href="#">Contract</a>
<input type="checkbox"/>	2	Bt 11.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	40	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	3	SYN-BT?11-1.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	4	1 or 2 or 3	144	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	5	MIR162.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	51	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	6	MIR 162.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	6	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	7	SYNHR162-4.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	8	5 or 6 or 7	58	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	9	MIR604.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	27	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	10	MIR 604.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	11	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	11	SYNHR674-5.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	

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supplementary concept word, protocol supplementary  
concept word, rare disease supplementary concept word,  
unique identifier, synonyms]

<input type="checkbox"/>	12	9 or 10 or 11	38	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	13	GA21.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	58	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	14	GA 21.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	22	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	15	GA21.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	16	GA 21.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	17	"MON ØØØ21".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	4	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	18	MON ØØØ21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	19	MON 00021*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	20	MON empty setempty setempty set21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	21	"MONØØØ21".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	22	MONØØØ21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	

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		concept word, rare disease supplementary concept word, unique identifier, synonyms]				
<input type="checkbox"/>	23	MON00021*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	24	MONempty setempty setempty set21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	25	"MON ØØØ21*".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	26	MON ØØØ21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	27	MON 00021*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	28	MON empty setempty setempty set21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	29	"MONØØØ21*".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	30	MONØØØ21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	31	MON00021*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	32	MONempty setempty setempty set21*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	33	13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32	85	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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<input type="checkbox"/>	34	8 or 12 or 33	163	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	35	4 and 34	37	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	36	12 or 33	113	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	37	8 and 36	8	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	38	12 and 33	10	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	39	35 or 37 or 38	39	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	40	Agrisure*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	9	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	41	Cry1Ab*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	882	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	42	Cry 1Ab*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	13	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	43	Cry1 Ab*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	6	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	44	Cry 1 Ab*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	45	Cry1Ab*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	24	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	46	Cry 1Ab*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	47	Cry1 Ab*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	48	Cry 1 Ab*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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<input type="checkbox"/>	49	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	920	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	50	Phosphinothricin N acetyltransferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	130	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	51	Phosphinothricin N acetyl transferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	52	Phosphinothricin acetyltransferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	92	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	53	Phosphinothricin acetyl transferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	39	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	54	PPT acetyltransferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	55	PPT acetyl transferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	56	PT N acetyltransferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	3	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	57	PT N acetyl transferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	58	Glufosinate acetyltransferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	59	Glufosinate acetyl transferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	60	Glufosinate acetyltransferase.mp. [mp=title, abstract, original title, name of substance word, subject heading	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	

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	word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				
<input type="checkbox"/>	61 Gluphosinate acetyl transferase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	62 pat.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	5559	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	63 111069-93-3.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	64 "EC 2.3.1.183".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	65 "E.C. 2.3.1.183".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	66 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65	5677	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	67 Vip3AA20*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	22	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	68 Vip3 AA20*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	69 Vip3 AA 20*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	70 Vip3A A 20*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	71 67 or 68 or 69 or 70	22	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	72 Phosphomannoisomerase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word,	18	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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		organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				
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<input type="checkbox"/>	74	Phosphomannose isomerase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	5	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	75	Phosphomannose isomerase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	259	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	76	9023-88-5.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	77	AAA24109.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	78	"EC 5.3.1.8".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	18	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	79	"E.C. 5.3.1.8".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	18	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	80	72 or 73 or 74 or 75 or 76 or 77 or 78 or 79	496	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	81	mCry3A*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	34	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	82	mCry 3A*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	83	mCry 3 A*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	

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	concept word, rare disease supplementary concept word, unique identifier, synonyms]				
<input type="checkbox"/>	84 Cry3A*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	162	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	85 Cry 3A*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	86 Cry 3 A*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	3	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	87 81 or 82 or 83 or 84 or 85 or 86	196	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	88 5 enol pyruvyl shikimate 3 phosphate synthase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	7	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	89 5 enolpyruvyl shikimate 3 phosphate synthase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	30	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	90 5 enolpyruvylshikimate 3 phosphate synthase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	341	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	91 EPSP synthase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	152	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	92 MEPSP synthase.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a> <a href="#">More</a>	
<input type="checkbox"/>	93 EPSPS.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	4245	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	94 MEPSPS.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	55	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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<input type="checkbox"/>	95	"EC 2.5.1.1.9".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	30	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	96	"E.C. 2.5.1.19".mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	30	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	97	88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96	4515	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	98	71 or 80 or 87 or 97	5222	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	99	49 and 98	51	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	100	71 or 80 or 87 or 97	5222	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	101	66 and 100	28	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	102	87 or 97	4709	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	103	71 and 102	3	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	104	80 and 97	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	105	87 and 97	2	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	106	99 or 101 or 103 or 104 or 105	77	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	107	Insect.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	131179	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	108	Insects.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	51994	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	109	coleoptera*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	20750	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	110	lepidoptera*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	19029	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	111	pest.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	34511	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	112	pests.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	13666	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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<input type="checkbox"/>	113	stalkborer*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	3	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	114	stalk borer*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	59	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	115	borer*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2717	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	116	cornborer*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	6	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	117	corn borer*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	766	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	118	noctuidae.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2444	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	119	Crambidae.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	592	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	120	Chrysomelidae.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1314	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	121	earworm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	311	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	122	ear worm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	7	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	123	armyworm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary	1498	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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	concept word, rare disease supplementary concept word, unique identifier, synonyms]				
<input type="checkbox"/>	124 army worm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	51	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	125 cutworm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	372	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	126 cut worm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	9	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	127 rootworm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	606	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	128 root worm*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	3	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	129 Ostrinia.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	759	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	130 O nubilalis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	188	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	131 Diatraea.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	245	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	132 D grandiosella.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	8	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	133 D crambidoides.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	134 Helicoverpa.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-	2504	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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		heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				
<input type="checkbox"/>	135	H zea.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub- heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	337	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	136	Spodoptera.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub- heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	11496	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	137	S frugiperda.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub- heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	640	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	138	S exigua.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub- heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	546	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	139	Papaipema.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub- heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	4	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	140	P nebris.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub- heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	141	Elasmopalpus.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub- heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	16	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	142	E lignosellus.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub- heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	9	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	143	D saccharalis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub- heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	111	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	144	Striacosta.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub- heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	31	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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<input type="checkbox"/>	145	S albicosta.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	16	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	146	Agrotis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	305	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	147	A ipsilon.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	83	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	148	Feltia.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	11	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	149	F jaculifera.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
<input type="checkbox"/>	150	Pseudaletia.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	155	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	152	Diabrotica.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	614	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	153	D virgiferi.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	26	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	154	D barberi.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	24	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	155	ECB.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1094	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	

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	concept word, rare disease supplementary concept word, unique identifier, synonyms]					
<input type="checkbox"/>	156 SWCB.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	8	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	157 SCSB.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	77	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	158 CEW.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	165	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	159 FAW.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	185	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	160 SCB.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1048	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	161 WBC.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	18414	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	162 WCRW.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	4	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	163 WCR.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	267	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	164 NCRW.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		
<input type="checkbox"/>	165 MCR.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	5088	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>		
<input type="checkbox"/>	166 MCRW.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>		

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	heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				
<input type="checkbox"/> 167	107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 or 121 or 122 or 123 or 124 or 125 or 126 or 127 or 128 or 129 or 130 or 131 or 132 or 133 or 134 or 135 or 136 or 137 or 138 or 139 or 140 or 141 or 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 or 150 or 151 or 152 or 153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166	234226	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/> 168	toleran*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	353325	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/> 169	resistan*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1196752	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/> 170	protect*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	918272	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/> 171	control*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	5708158	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/> 172	168 or 169 or 170 or 171	7348816	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/> 173	((Insect or Insects or coleoptera* or lepidoptera* or pest or pests or stalkbore* or stalk borer* or borer* or comborer* or corn borer* or noctuidae or Crambidae or Chrysomelidae or earworm* or ear worm* or armyworm* or army worm* or outworm* or cut worm* or rootworm* or root worm* or Ostrinia or O nubilalis or Diatraea or D grandiosella or D crambidoides or Helicoverpa or H zea or Spodoptera or S frugiperda or S exigua or Papaipema or P nebris or Elasmopalpus or E lignosellus or D saccharalis or Striacosta or S albicosta or Agrotis or A ipsilon or Feltia or F jaculifera or Pseudaletia or P unipuncta or Diabrotica or D virgifera or D barberi or ECB or SWCB or SCSB or CEW or FAW or SCB or WBC or WCRW or WCR or NCRW or MCR or MCRW) adj2 (toleran* or resistan* or protect* or control*))).mp.	32309	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/> 174	B thuringiensis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2344	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/> 175	Bacillus thuringiensis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	9110	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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<input type="checkbox"/>	176	glufosinate*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	512	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	177	gluphosinate*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	9	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	178	Basta*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	936	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	179	Liberty*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1998	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	180	Ignite*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1768	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	181	Rely*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	89197	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	182	Finale*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	820	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	183	Challenge*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	735754	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	184	gl?phosate.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	4069	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	185	gl?fosate.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	186	roundup*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1278	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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	concept word, rare disease supplementary concept word, unique identifier, synonyms]				
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<input type="checkbox"/>	188 herbicide*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	27112	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	189 pesticide*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	63360	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	190 176 or 177 or 178 or 179 or 180 or 181 or 182 or 183 or 184 or 185 or 186 or 187 or 188 or 189	907635	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	191 toleran*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	353325	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	192 resistan*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1196752	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	193 protect*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	918272	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	194 191 or 192 or 193	2334131	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	195 ((glufosinate* or gluphosinate* or Basta* or Liberty* or Ignite* or Rely* or Finale* or Challenge* or gl?phosate or gl?fosate or roundup* or round up* or herbicide* or pesticide*) adj2 (toleran* or resistan* or protect*)).mp.	9044	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	196 173 or 174 or 175 or 195	46880	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	197 GMO*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2163	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	198 LMO*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2540	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	199 GM.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary	53585	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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	concept word, rare disease supplementary concept word, unique identifier, synonyms]				
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<input type="checkbox"/>	201 transgen*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	227972	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	202 genetic*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	4179223	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	203 living.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	427682	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	204 biotech*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	71456	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	205 202 or 203 or 204	4607781	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	206 modifi*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	1203699	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	207 transform*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	650407	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	208 manipulat*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	210698	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	209 improv*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2763965	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	210 engineer*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	286474	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	211 deriv*.mp. [mp=title, abstract, original title, name of	2044969	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
















<input type="checkbox"/>	212	206 or 207 or 208 or 209 or 210 or 211	6296575	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	213	((genetic* or living or biotech*) adj3 (modif* or transform* or manipulat* or improv* or engineer* or deriv*')).mp.	164837	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	214	stack*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	48261	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	215	197 or 198 or 199 or 200 or 201 or 213 or 214	470270	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	216	196 and 215	6057	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	217	GMHT.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	32	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
<input type="checkbox"/>	218	GEHT.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	730	Advanced	<a href="#">Display Results</a>   <a href="#">More</a>	
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<input type="checkbox"/>	223	GMHRs.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	<a href="#">Save</a>   <a href="#">More</a>	
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concept word, rare disease supplementary concept word, unique identifier, synonyms]					
<input type="checkbox"/>	225	217 or 218 or 219 or 220 or 221 or 222 or 223 or 224	830	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
<input type="checkbox"/>	226	216 or 225	6854	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
<input type="checkbox"/>	227	Maize*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	33538	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
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<input type="checkbox"/>	231	227 or 228 or 229 or 230	258944	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
<input type="checkbox"/>	232	226 and 231	1509	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
<input type="checkbox"/>	233	Bt.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	15988	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
<input type="checkbox"/>	234	Bacillus thuringiensis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	9110	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
<input type="checkbox"/>	235	B thuringiensis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	2344	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
<input type="checkbox"/>	236	233 or 234 or 235	22550	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
<input type="checkbox"/>	237	maize*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	33538	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
<input type="checkbox"/>	238	corn*.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	222267	Advanced	<a href="#">Display Results</a> <a href="#">More</a> 
<input type="checkbox"/>	239	mays.mp. [mp=title, abstract, original title, name of	38808	Advanced	

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substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]

<input type="checkbox"/>	240	237 or 238 or 239	259167	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
<input type="checkbox"/>	241	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	841	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	244	241 or 242 or 243	841	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	
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<input type="checkbox"/>	246	limit 245 to yr="2020 -Current"	167	Advanced	<a href="#">Display Results</a> <a href="#">More</a>	

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- agrotis
- army
- worm\*
- armyworm\*
- b
- thuringiensis
- bacillus
- basta\*
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- borer\*
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- bt11
- btcom\*
- btmaize\*
- cew
- challenge\*
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- coleoptera\*
- control\*
- corn
- corn\*
- cornborer\*
- crambidae
- cry
- ab\*
- 1ab\*
- a\*
- 3a\*
- i
- 1ab\*
- cry1
- cry1ab\*
- cry3a\*
- cryi
- crylab\*
- cut
- cutworm\*
- d
- barberi
- crambidoidea
- grandiosella
- saccharalis
- virgifera
- deriv\*
- diabrotica
- diatraea
- e
- tignosellus
- e.c.
- 2.3.1.183
- 2.5.1.19
- 5.3.1.8
- ear
- earworm\*
- ec
- 2.5.1.1.9
- ecb
- elasmopalpus
- engineer\*
- epsp
- epsp
- f




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☐ 4. [Deciphering the rhizobacterial assemblages under the influence of genetically engineered maize carrying mcy genes.](#)

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 ignite\*  
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 manipulat\*  
 mannose  
 6phosphate  
 isomerase  
 mays  
 mcr  
 mcrw  
 mcrv  
 mcrv3a\*  
 mepsp  
 mepsp  
 mir  
 mir162  
 mir604  
 modif\*

<https://ovidsp.dc2.ovid.com/ovid-a/ovidweb.cgi>

23/25

7/13/2021

Ovid: Search Form

mon  
mon00021\*  
monempty  
monoco21\*  
mon00021\*  
ncrw  
noctuidae  
o  
nubilalis  
ostrinia  
p  
nebris  
unipuncta  
papaipema  
pat  
pest  
pesticide\*  
pests  
phosphinothricin  
n  
phosphomannoisomerase  
phosphomannose  
phosphomannoseisomerase  
ppt  
protect\*  
pseudaletia  
pt  
rely\*  
resistan\*  
root  
rootworm\*  
round  
up\*  
roundup\*  
s  
albicosta  
exigua  
frugiperda  
scb  
scsb  
spodoptera  
stack\*  
stalk  
stalkborer\*  
striacosta  
swcb  
syn-bt?11-1  
syn-ir162-4  
syn-ir6?4-5  
toleran\*  
transform\*  
transgen\*  
vip3  
aa  
20\*  
aa20\*  
vip3a  
vip3aa20\*  
wbc  
wcr  
wcrw  
z

Search Returned:  
167 text results

Sort By:  
-