



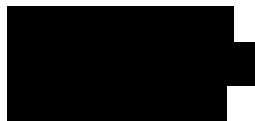
**Review of Scientific Literature Relevant to the
Food/Feed and Environmental Risk Assessment of
Event Bt11 × 59122 × MIR604 × 1507 × GA21 Maize**

Literature Review

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LIST OF ACRONYMS AND ABBREVIATIONS

EU	European Union
ISAAA	International Service for the Acquisition of Agri-Biotech Applications
PICO/PECO	Population, Intervention/Exposure, Comparator, Outcomes

1.0 OBJECTIVE

The purpose of this systematic literature search is to identify literature and/or information on Bt11 × 59122 × MIR604 × 1507 × GA21 maize and all sub-combinations in scope that is relevant to the risk assessment of genetically modified organisms.

Syngenta developed Bt11 × 59122 × MIR604 × 1507 × GA21 (*Zea mays* L., corn) by combining five individual transformation events through conventional breeding. This stacked-event maize variety provides control of certain lepidopteran and coleopteran insect pests and tolerance to glyphosate and glufosinate-ammonium herbicides.

Maize plants derived from transformation Event Bt11 contain the gene *cry1Ab*, which encodes the insecticidal protein Cry1Ab, and the gene *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. The Cry1Ab produced by Bt11 maize is a truncated version of Cry1Ab that retains activity against lepidopterans. The gene *pat* was derived from the soil bacterium *Streptomyces viridochromogenes*. PAT acetylates glufosinate-ammonium, thus inactivating it and conferring tolerance to glufosinate-ammonium herbicides.

Maize plants derived from Event 59122 were developed using *Agrobacterium*-mediated transformation to insert a DNA fragment from plasmid PHP17662 into the maize genome. The 59122 maize plants express the *Bacillus thuringiensis* strain PS149B1's Cry34Ab1 and Cry35Ab1 (Cry34/35Ab1) binary insecticidal proteins which are active against corn rootworm (*Diabrotica* spp), and the PAT protein from *Streptomyces viridochromogenes*, which provides tolerance to glufosinate herbicides.

Maize plants derived from transformation event MIR604 contain the gene *mcry3A*, which encodes the insecticidal protein mCry3A, and the gene *mir604pmi*, which encodes the enzyme phosphomannose isomerase (MIR604 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 a sub-set of corn rootworm (*Diabrotica* spp.) and other related coleopteran pests.

Maize plants derived from transformation event 1507 contain the gene *cry1Fa2*, which encodes the insecticidal protein Cry1F, and the gene *pat*, which encodes the enzyme PAT. The native, full-length Cry1F produced by *B. thuringiensis* var. *aizawai* is active against certain lepidopteran insect pests of maize, including *Ostrinia nubilalis* and *Spodoptera frugiperda*. The Cry1F produced by 1507 maize is a truncated version of Cry1F that retains activity against lepidopterans. Event 1507 maize also produces the PAT protein from *Streptomyces viridochromogenes* which provides tolerance to glufosinate herbicides. The PAT protein was used as a selectable marker in the development of 1507 maize.

Maize plants derived from transformation event GA21 contain the transgene *mepsps*, which encodes the enzyme mEPSPS. The native 5-enol pyruvylshikimate-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.

Accordingly, Bt11 × 59122 × MIR604 × 1507 × GA21 maize produces the transgenic proteins present in Event Bt11, Event 59122, Event MIR604, Event 1507 and Event GA21 maize. Articles must be specific to Bt11 × 59122 × MIR604 × 1507 × GA21 maize, or any of the in-scope sub-combinations.

This report defines the 1) review question; 2) the search strategy; and 3) the explicit methods for selecting and categorizing the records. The results of the selection process are reported including consideration of the implications of any findings. This report aims to comply with the EFSA explanatory note on literature searching for GMO applications (EFSA 2019).

2.0 FORMULATING REVIEW QUESTIONS AND CLARIFYING THEIR PURPOSE

2.1 Review Question

The review question associated with this literature search was:

Do either food/feed products derived from GA21 maize or the intended trait have adverse effects on human and/or animal health and/or the environment?

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

TABLE 1 Review question in PICO/PECO structure

Element	Components of Review Question
<u>P</u> opulation	Human and animal health and the environment
<u>I</u> ntervention/ <u>E</u> xposure	Bt11 × 59122 × MIR604 × 1507 × GA21 maize and all sub-combinations in scope, derived food/feed products, and/or relevant combinations of Cry1Ab, PAT, Cry34Ab1, Cry35Ab1, modified Cry3A (mCry3A), MIR604 PMI, Cry1F and 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) searching the name of any of the single events comprising the Bt11 × 59122 × MIR604 × 1507 × 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. The interventions/exposures that appear in bold in Table 2 were used to develop the search terms. The boxes were used to identify the sub-combinations that would be captured by each search strategy. A similar approach was used for the proteins associated with the events.

TABLE 2 List of Sub-combinations in scope for Bt11 × 59122 × MIR604 × 1507 × GA21 maize

Bt11 × 59122 Bt11 × 59122 × MIR604 Bt11 × 59122 × 1507 Bt11 × 59122 × GA21 Bt11 × 59122 × MIR604 × 1507 Bt11 × 59122 × MIR604 × GA21 Bt11 × 59122 × 1507 × GA21	59122 × MIR604 59122 × MIR604 × GA21 59122 × MIR604 × 1507 59122 × MIR604 × 1507 × GA21
Bt11 × 1507 Bt11 × MIR604 × 1507 Bt11 × 1507 × GA21 Bt11 × MIR604 × 1507 × GA21	MIR604 × 1507 MIR604 × 1507 × GA21
	1507 × GA21
	59122 × GA21 59122 × 1507 × GA21

2.2 Eligibility/Inclusion Criteria

Tables 3 and 4 summarize the eligibility/inclusion criteria for establishing relevance of retrieved records. Table 3 provides high level key concepts for inclusion/exclusion and Table 3 provides more explicit information on the information/data requirements concept. The eligibility/inclusion criteria are provided in the order of importance or ease of finding information on the criteria within a publication. The first failed eligibility/inclusion criterion was used as the primary reason for exclusion, and the remaining criteria were not assessed. Internet pages were screened first by date range June 1, 2018 to June 30, 2019. Pages without dates were evaluated further using the criteria in Tables 3 and 4.

TABLE 3 Eligibility/Inclusion Criteria to Establish Relevance

Concepts	Criteria	Comment
Stacked events obtained by conventional crosses/sub-combinations	The publication addresses the higher stacked event and/or a sub-combination or sub-combinations of the single events of the higher stacked event, independently of its/their origin	This permits the selection of publications on the higher stacked event and/or sub-combinations of the single events of the higher stacked event that are in scope of the Bt11 \times 59122 \times MIR604 \times 1507 \times GA21 application, independently of their origin. This permits the exclusion of publications 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>i.e.</i> , the higher stacked event and sub-combinations of the singles involved, independently of their origin.
Intervention/exposure	Bt11 \times 59122 \times MIR604 \times 1507 \times GA21 maize, derived food/feed products, and/or the intended trait(s)	Intended traits include Cry1Ab, PAT, Cry34Ab1, Cry35Ab1, mCry3A, MIR604 PMI, Cry1F and mEPSPS and closely related variants. Closely related variants of Cry1Ab include various lengths of the Cry1Ab protein but not other Cry or Cry1 proteins. Closely related variants of mCry3A include native Cry3A. Any enzyme classified by the author as a phosphinothricin acetyl transferase was considered a closely related variant of the PAT protein. Any enzyme classified by the author as a phosphomannose isomerase was considered a closely related variant of PMI. Any enzyme classified as a 5-enol pyruvylshikimate-3-phosphate synthase was considered a closely related variant of mEPSPS. And unique protein combinations related to the listed sub-combinations.
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 \times 59122 \times MIR604 \times 1507 \times GA21 maize (information/data requirements provided in Table 3) were considered relevant. Based on the scope of the application certain information/data requirements were excluded. These are also detailed in Table 3. Publications addressing issues such as benefits, socio-economics, ethics, crop protection, detection methods, efficacy, public perception and risk communication were excluded using this criterion, as they are not necessarily relevant to the risk assessment of GMOs.
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	The scope of the application associated with this literature review is import and processing for food/feed uses. Therefore, publications must address pathways and levels of exposure relevant to the scope of the application to be included.

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) were excluded. Reviews were only included if they present data that are not available from a primary research study. Risk assessments performed and reported by relevant key organizations were included if they address Bt11 × 59122 × MIR604 × 1507 × GA21 maize, any of the relevant sub-combinations, and unique combinations of Cry1Ab, PAT, Cry34Ab1, Cry35Ab1, mCry3A, MIR604 PMI, Cry1F 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 was excluded. EFSA's scientific opinions were excluded. Any cited/referenced publications contained within documents produced by EFSA and/or its GMO Panel were also excluded.
Access	Full-text document is accessible	If potentially relevant full-text documents could not be obtained, then they were listed in a table with a description of the (unsuccessful) methods that have been 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 is relevant to the information/data requirements in Table 4 it was considered relevant.
Outcomes	Effects/impacts on human and animal health, and/or the environment are addressed	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 is relevant to the information/data requirements in Table 4 it was considered relevant.
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 × 59122 × MIR604 × 1507 × 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.

Concepts	Criteria	Comment
Plant species	The publication addresses the same plant species as the GMO under consideration	This literature review aims at determining the safe use of the intended traits(s) of Bt11 × 59122 × MIR604 × 1507 × GA21 maize, and its relevant sub-combinations. Therefore, GMOs that contain relevant sub-combinations of transgenic proteins, but are introduced into another plant species was included. For certain types of data, the presence of relevant sub-combinations of newly expressed proteins in a different plant species will not impact the assessment of Bt11 × 59122 × MIR604 × 1507 × GA21 maize. Those types of data are identified 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 were excluded because the scope of the application is import for food/feed uses and this 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 were excluded at the initial screening stage. Only one copy of a study was presented even if it is reported in different publications.
Date of information	For internet pages only, the date of the information presented should be within the date range of the literature review (from June 1, 2018 through June 30, 2019).	Documents returned from the searches of the webpages that were out of date were excluded.

TABLE 4 Overview of Main Categories of Information/Data Requirements

Expert knowledge on data used in the risk assessment of the GMO is required but the list below provides some examples of relevant data/information.

Information/data requirement	Non-exhaustive list of specific information/data requirements
Molecular characterization of the genetic modification of Bt11 × 59122 × MIR604 × 1507 × GA21 maize	<ul style="list-style-type: none"> • Information on the insert including: sequence, size, copy number, genetic element arrangement, deletions, location, sequence similarity searches, analysis of open reading frames • Expression data of inserted/modified sequences • Genetic stability • Molecular and biochemical characterization of the protein(s) such as: primary structure, molecular weight, post-translational modifications • Assessment of enzymatic activity including substrate specificity and reaction products with respect to safety and/or nutritional balance • Data on the equivalence between plant-produced and microbially-produced proteins
Agronomic, phenotypic and compositional characterization of the Bt11 × 59122 × MIR604 × 1507 × GA21 maize	<ul style="list-style-type: none"> • Comparative assessment of agronomic and phenotypic characteristics under field or controlled conditions • Comparative analysis of key nutritional constituents were only considered relevant if generated on Bt11 × 59122 × MIR604 × 1507 × GA21 maize material.
Toxicological assessment of newly expressed protein(s), new constituents other than proteins, and the whole GM food/feed	<ul style="list-style-type: none"> • Amino acid sequence comparison between the newly expressed protein(s) and toxic proteins • Stability of the protein(s) under relevant processing and storage conditions • Investigation of proteolytic susceptibility of the newly expressed protein • Toxicity studies • Feeding studies that used plant material must use Bt11 × 59122 × MIR604 × 1507 × GA21 maize as the source of plant material to be considered relevant
Allergenicity assessment of the newly expressed protein and the GM food/feed, and adjuvanticity	<ul style="list-style-type: none"> • Amino acid sequence comparison between the newly expressed protein and known allergens or celiac disease peptide sequences • Serum screening • Pepsin susceptibility testing • <i>In vivo</i> tests in animal models • Expression data for endogenous allergens in maize • Comparison of newly expressed proteins to known strong adjuvants
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"> • Anticipated dietary intake of food/feed from Bt11 × 59122 × MIR604 × 1507 × GA21 maize and the resulting nutritional impact • Comparative growth performance studies with young rapidly growing animal species.

Information/data requirement	Non-exhaustive list of specific information/data requirements
Post-market monitoring	<ul style="list-style-type: none"> • Description of mechanisms for determining actual changes to overall dietary intake patterns of the Bt11 × 59122 × MIR604 × 1507 × GA21, to what extent this has occurred and whether or not the product induces known (side) effects or unexpected side effects • Information on the reliability, sensitivity and specificity of the post market monitoring
Persistence and invasiveness assessment, including plant-to-plant gene transfer	<ul style="list-style-type: none"> • Measurements of volunteer occurrence and establishment • Replacement capacity • Fitness of the GM 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.
Assessment of plant to micro-organism gene transfer	<ul style="list-style-type: none"> • Homology searches at nucleotide level between the GM event (applicable to the Bt11 × 59122 × MIR604 × 1507 × GA21) and microorganisms
Assessment of interactions with target organisms	<ul style="list-style-type: none"> • Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of Bt11 × 59122 × MIR604 × 1507 × GA21 maize in the EU. According to the EFSA ERA Guidance (EFSA, 2010): “<i>resistance development is only relevant for applications with scope cultivation of GM plants and not for applications restricted to import and processing of GM plants and their products</i>” (EFSA, 2010). Therefore, an assessment of the potential resistance development in target organisms resulting from the import, processing and food and feed use Bt11 × 59122 × MIR604 × 1507 × GA21 maize is not relevant for this application.
Assessment of interactions with nontarget organisms	<ul style="list-style-type: none"> • 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 was considered not relevant based on scope of application.
Assessment of interactions with biogeochemical and abiotic processes	<ul style="list-style-type: none"> • Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of Bt11 × 59122 × MIR604 × 1507 × GA21 maize 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 × 59122 × MIR604 × 1507 × GA21 maize on biogeochemical processes resulting from specific cultivation, management and harvesting techniques is not relevant given the scope of this application.

Information/data requirement	Non-exhaustive list of specific information/data requirements
Assessment of impact of specific cultivation, management and harvesting techniques	<ul style="list-style-type: none"> Excluded based on the scope of the application. The scope of this application covers the import, processing and food and feed use of Bt11 × 59122 × MIR604 × 1507 × GA21 maize in the EU. Cultivation of Bt11 × 59122 × MIR604 × 1507 × 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 × 59122 × MIR604 × 1507 × GA21 maize is not relevant for this application.
Risk mitigation	<ul style="list-style-type: none"> 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 × 59122 × MIR604 × 1507 × GA21 maize.
Post-market environmental monitoring	<ul style="list-style-type: none"> 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 × 59122 × MIR604 × 1507 × GA21 maize.

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) were used. Medline, Agricola, CAB Abstracts, and BIOSIS Previews (provided by Ovid Technologies) were searched. Each of the databases has a thesaurus. Searching these databases fulfills the requirement to search a minimum of at least two multi-disciplinary/large databases.

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. Detailed information (e.g., list of subjects covered, coverage dates, update schedule, and sources for data) regarding each of the databases searched can be obtained upon request. The document types in these databases include: journal articles, technical letters and notes, conference proceedings, book chapters, reports, and articles in press.

3.2 Internet Searches

3.2.1 Key organizations

The internet pages of regulatory agencies and risk assessment bodies that regulate stacks listed below (Table 5) were searched for documents related to Bt11 × 59122 × MIR604 × 1507 × GA21 Maize and the sub-combinations in scope of the application.

Several relevant key organisations almost never report risk assessments on stacked events obtained through conventional crosses. Therefore, searching their internet pages has limited value in the context of GMO applications for stacked events, and thus is not recommended (EFSA, 2019).

TABLE 5 Key Organizations Pages Included in the Search

Regulatory agency name	Web address
US Environmental Protection Agency	https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated
Canadian Food Inspection Agency	https://www.inspection.gc.ca/plants/plants-with-novel-traits/approved-under-review/stacked-traits/eng/1337653008661/1337653513037
Office of the Gene Technology Regulator	http://www.ogtr.gov.au/
Intersecretarial Commission on Biosafety of GMOs	http://www.conacyt.gob.mx/cibiogem/index.php/cibiogem
National Technical Commission on Biosafety	http://ctnbio.mcti.gov.br/
National Advisory Commission on Agriculture Biotechnology*	https://www.argentina.gob.ar/agroindustria/alimentos-y-bioeconomia/ogm-comerciales
Ministry of Agriculture, Forestry and Fisheries	http://www.maff.go.jp/e/
European Food Safety Authority	http://www.efsa.europa.eu/

*The traditional website search method was ineffective. Therefore, this webpage was searched using the find function <control F>.

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

If any reviews, methodological publications, guidelines and scientific opinions from regulatory agencies were retrieved using the search strategy and classified as relevant to the review question, then the reference lists from those records were manually searched for new records (June 2018 through the date the search was conducted) that meet the eligibility/inclusion criteria.

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 indicates 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 dated 2017 (EFSA 2017) 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.¹

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 is not necessary to search each exact controlled phrase in order to return all references for each of the specific headings.

¹ 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.

Appendix A provides 1) the search history (including the full strategy used and fields searched as run in the database) and 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

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 result

A very large number of publications were returned using only the four key elements of Event, Intended trait, newly expressed protein, 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 OR Trade Name) or (Event OR Trade name OR ((Intended Trait OR Newly Expressed Protein) 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 Proteins, or Intended Trait in the same publications as terms describing plant species and/or GMO general terms. The search strategy employed was:

- Event OR Trade name OR (Newly Expressed Protein(s) AND (GMO general OR Plant Species)) OR (Intended Trait – Insecticidal AND (GMO general AND Plant Species)) OR GMO general × Intended Traits

The search strategy employed captured literature relevant to Bt11 × 59122 × MIR604 × 1507 × GA21 maize and is provided in 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	DAS59122* OR DAS 59122* OR 59122* OR DAS59122* OR DAS 59122* OR 59122*	Event 59122
3	Topic	MIR604 OR MIR 604 OR SYN-IR6?4-5	Event MIR604
4	Topic	DAS15?7 OR DAS 15?7 OR DAS15?7 OR DAS I5?7 OR 15?7 OR I5?7 OR TC 15?7 OR TC15?7 OR TC I5?7 OR TCI5?7 OR DAS-?15?7-1 OR DAS?15?71	Event 1507
5	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 MON00021* OR MONempty setempty setempty set21* OR M0N ØØØ21* OR M0N ØØØ21* OR M0N 00021* OR M0N empty setempty setempty set21* OR M0NØØØ21* OR M0NØØØ21* OR M0NØØØ21* OR M0Nempty setempty setempty set21*	Event GA21
6		#1 AND (#2 OR #4)	Relevant event combinations
7		#2 AND (#3 OR #5)	Relevant event combinations
8		#3 AND #4	Relevant event combinations
9		#4 AND #5	Relevant event combinations
10		#6 OR #7 OR #8 OR #9	All relevant single event combinations
11	Topic	Agrisure*	Trade names of Bt11, MIR604, and GA21, highest order stack and sub-combinations ^a
12	Topic	Herculex* ADJ3 (RW* OR I* OR 1* OR CB* OR XTRA*)	Trade names of single Events 59122 and 1507
13		#11 AND #12	Relevant combinations of trade names
14	Topic	Cry1Ab* OR Cry 1Ab* OR Cry1 Ab* OR Cry 1 Ab* OR CryIAb* OR Cry IAb* OR CryI Ab* OR Cry I Ab*	Newly expressed protein in Bt11
15	Topic	Phosphinothricin N acetyltransferase OR Phosphinothricin N acetyl transferase OR Phosphinothricin acetyltransferase OR PPT acetyltransferase 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, 59122 and 1507
16	Topic	Cry34Ab* OR Cry34 Ab* OR Cry 34Ab* OR Cry 34 Ab* OR Cry35Ab* OR Cry35 Ab* OR Cry 35Ab* OR Cry 35 Ab*	Newly expressed protein in 59122
17	Topic	mCry3A* OR mCry 3A* OR mCry 3 A* OR Cry3A* OR Cry 3A* OR Cry 3 A*	Newly expressed protein in MIR604
18	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 MIR604

Set	Field	Search String	Concepts/Key Elements
19	Topic	Cry1F* OR Cry 1F* OR Cry 1 F* OR Cry1 F* OR CryIF* OR Cry IF* OR Cry I F* OR CryI F*	Newly expressed protein in TC1507
20	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. 2.5.1.1.9	Newly expressed protein in GA21 maize
21		#14 AND (#16 OR #19)	Relevant protein combinations
22		#16 AND (#17 OR #18 OR #20)	Relevant protein combinations
23		#15 AND (#17 OR #18 OR #20)	Relevant protein combinations
24		#19 AND (#17 OR #18 OR #20)	Relevant protein combinations
25		#21 OR #22 OR #23 OR #24	All combinations of newly expressed proteins
26	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 Bacillus thuringiensis OR B 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
27	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
28		#26 AND #27	Intended traits AND GMO general
29	Topic	GMHT OR GEHT OR GMHR or GEHR OR GMHTs OR GEHTs OR GMHRs or GEHRs	GMO general x intended traits - herbicidal
30		#28 OR #29	(Intended traits AND GMO general) OR GM general x intended traits - herbicidal
31	Topic	Maize OR corn OR Zea mays OR Z mays	Plant species

Set	Field	Search String	Concepts/Key Elements
32		#30 AND #31	((Intended trait AND GMO general) OR GMO general × intended trait - herbicidal)) AND Plant species
33	Topic	((Bt OR Bacillus thuringiensis OR B thuringiensis) ADJ5 (maize* OR corn* OR mays)) OR Btmaize* OR Btcorn*	GMO general x intended traits - insecticidal
34		#10 OR #13 OR #25 OR #32 OR #33	(Combinations of Single event) OR (Trade names) OR (Newly expressed protein) OR (((Intended traits AND GMO general) OR GMO general × intended traits – herbicidal) AND Plant species) OR (GMO general x intended traits – insecticidal)

^aTrade 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.

Agrisure Designation	Product
Agrisure 3122, Agrisure 3122A, Agrisure 3122 E-Z Refuge, Agrisure Artesian 3122A E-Z Refuge	Bt11 × 59122 × MIR604 × 1507 × GA21
Agrisure 3120, Agrisure 3120A, Agrisure 3120 E-Z Refuge, Agrisure Artesian 3120A E-Z Refuge	Bt11 × 1507 × GA21
Agrisure TL, Agrisure TD, Agrisure CB/LL, Agrisure CB	Bt11 maize
Agrisure RW	MIR604
Agrisure GT, Agrisure TG, Agrisure Artesian GTA	GA21 maize

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 name it is unlikely that there are translations because they are not words in the English language.

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 addition of a publication would be missed. Therefore, the returned literature was limited to that which was published between June 1, 2018 and June 30, 2019 (see Table 9).

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 7). The descriptions and information for the top 50 hits or 10% of the total hits (whichever is greater) for each search term/web page were collected.

TABLE 7 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 N-acetyltransferase	Newly expressed protein
MIR604	MIR604	Event Name
MIR604	mCry3A	Newly expressed protein
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

Previously conducted literature reviews have successfully returned literature relevant to the risk assessment of Bt11 × 59122 × MIR604 × 1507 × GA21 maize. The search strategy defined in this report was run and the reference publications listed below in Table 8 were returned. Therefore, the search terms selected are suitable to retrieve and/or identify the already known literature on the intervention/exposure of Bt11 × 59122 × MIR604 × 1507 × GA21 maize.

The reference publications utilized are identified in Table 8 (X indicates that the publication was retrieved in the database). The percentage of publications retrieved in each database is provided.

TABLE 8 Reference publications

Data/Information requirement	Reference	Medline	CAB Abstracts	BIOSIS	Agricola
Agronomic, phenotypic and compositional characterization of the GM plant Assessment of interactions with nontarget organisms Toxicological assessment of newly expressed protein(s), new constituents other than proteins, and the whole GM food/feed	Pellegrino E, Bedini S, Nuti M and Ercoli L, 2018. Impact of genetically engineered maize on agronomic, environmental and toxicological traits: a meta-analysis of 21 years of field data.[Erratum appears in Sci Rep. 2018 Apr 19;8(1):6485; PMID: 29670219]. Scientific Reports 8, 3113.	X		X	
	Percentage of records returned	1 100%	0	1 100%	0

4.0 SUMMARIZING AND REPORTING THE DATA, AND CONSIDERING THE IMPLICATIONS OF THE FINDINGS

4.1 Selecting Publications

4.1.1 Database records

The process for selecting relevant publications was conducted in two stages. The first stage required a rapid assessment of titles and abstracts. Those records that were clearly not relevant from reviewing the title only were excluded from further review. For those records that appeared relevant or had unclear relevance the abstracts were reviewed. Those records that were clearly not relevant from reviewing the abstract were excluded from further review, while records that are relevant or have unclear relevance were reviewed in Stage 2.

Two independent reviewers examined the records for inclusion/exclusion for each eligible information/data requirement at all stages of review. Reviews and selections were conducted independently. During the rapid assessment process (Stage 1), only records that were deemed clearly not relevant by both reviewers were excluded from further review.

The reviewers met to discuss their disagreements and further refined their understanding of the criteria for relevance. The reviewers independently re-reviewed the potential relevance of those titles upon which they disagreed. Documents with vague and generic titles were moved forward for full-length document review.

A kappa test was performed after the title/abstract publication selection (stage 1) and before initiating the full-text screening process. The kappa test score was 0.328. Because the review only considers manuscripts published within a small duration (one year), the searches are expected to return a small number of relevant compared to a large number of non-relevant manuscripts. Therefore, the reviewers adopted a broad inclusion criteria to ensure that all potentially relevant publications were captured. At the completion of stage 1 there were 314 records retrieved from the databases (with duplicates removed). There were 310 agreements, including agreement regarding one manuscripts at the title/abstract phase which were subsequently moved to stage two. There were four disagreements due to conservative reviewer judgement rather than narrower reviewer judgement. These publications proceeded to the next phase of review (review of the full documents). In this case, a kappa value smaller than 0.6 should not be of concern as the reviewers applied a broad inclusion criteria to their ratings of the titles and abstracts to ensure vague and non-specific titles and abstracts were moved forward for full-length document review.

Full-length articles were reviewed in Stage 2. A reason for exclusion is provided for any records that were deemed not relevant in Stage 2. Any relevant records identified in Stage 2 were subjected to reliability assessments and evaluations of the implications of those records on the food and feed or environmental risk assessments. Reviewers came to a consensus on all records.

4.1.2 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. The regulatory agency webpages that were searched do not post primary data; therefore all other document types are not considered relevant.

The format of records returned from regulatory agency websites did not meet the format required to assess them using the two stage process followed for the database records. When the website records were published in English, they were assessed by two independent reviewers. Due to format the full-text documents were assessed to determine relevance. When the website records were not published in English a single reviewer that speaks the language of those documents determined if they should be classified as a risk assessment, scientific opinion/report or document on the biology of the crop of interest. If a document was classified as one of these document types then it was translated to English and two independent reviewers determined if it met the other criteria for inclusion. Only if records were classified as one of the relevant document types and excluded based on other eligibility criteria was the rationale for its exclusion provided. Internet pages with URLs that lead to meaningless or no information (broken links) were also excluded.

4.2 Summarizing and Reporting the Data

This report provides detail about the search process and its results. The methodological framework in this report involves summarizing and reporting the literature, and applying meaning to the results as outlined in the Explanatory Note (EFSA 2019).

4.3 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 before and after removing duplicates were recorded. Additionally, the line by line strategy with the number of publications identified per line is presented. See Appendix A.

TABLE 9 Electronic bibliographic database search details

Database	Search Date	Service provider	Date span of the search	Any limits applied to the search	Total number of records retrieved after removing duplicates
Agricola	11/7/2019	Ovid Technologies	01/06/2018 to 30/06/2019	Dates	6
BIOSIS Previews	11/7/2019	Ovid Technologies	01/06/2018 to 30/06/2019	Dates	76
CAB Abstracts	11/7/2019	Ovid Technologies	01/06/2018 to 30/06/2019	Dates	80
Medline	11/7/2019	Ovid Technologies	01/06/2018 to 30/06/2019	Dates	152

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 7 contains the search terms used as a series of single searches for regulatory agency web pages.

For records from reference lists from manual searches, the following was recorded: the bibliographic details of the documents whose reference lists were scanned and the number of relevant bibliographic references retrieved.

TABLE 10 Regulatory agency webpage search details

Regulatory agency name	URL	Date of Search	Date of Most Recent Website Update	Date Span of Search	Total number of records retrieved after removing duplicates	Number of relevant records
US Environmental Protection Agency	https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated	7/23/2019	10/24/2018	June 1, 2018 to June 30, 2019	6	0
Canadian Food Inspection Agency	http://www.inspection.gc.ca/plants/plants-with-novel-traits/notices-of-submission/eng/1300143491851/1300143550790	7/24/2019	1/17/2019	June 1, 2018 to June 30, 2019	50	0
Office of the Gene Technology Regulator	http://www.ogtr.gov.au/	7/25/2019	7/25/2019	June 1, 2018 to June 30, 2019	72	0

Regulatory agency name	URL	Date of Search	Date of Most Recent Website Update	Date Span of Search	Total number of records retrieved after removing duplicates	Number of relevant records
Intersecretarial Commission on Biosafety of GMOs	http://www.conacyt.gob.mx/cibiogem/index.php/cibiogem	7/19/2019	No update information provided	June 1, 2018 to June 30, 2019	6	0
National Technical Commission on Biosafety	http://ctnbio.mcti.gov.br/	7/17/2019	No update information provided	June 1, 2018 to June 30, 2019	254	0
National Advisory* Commission on Agriculture Biotechnology	https://www.argentina.gob.ar/agroindustria/alimentos-y-bioeconomia/ogm-comerciales	8/6/2019	No update information provided	June 1, 2018 to June 30, 2019	6	0
Ministry of Agriculture, Forestry and Fisheries	http://www.maff.go.jp/e/	7/19/2019	No update information provided	June 1, 2018 to June 30, 2019	211	4
European Food Safety Authority	http://www.efsa.europa.eu/	7/25/2019	No update information provided	June 1, 2018 to June 30, 2019	73	0

The results of the selection process are recorded in Table 11 and a flow chart of the publication selection process is shown in Figure 1.

TABLE 11 Results of the publication selection process, for each review question and or group of information/data requirements searched

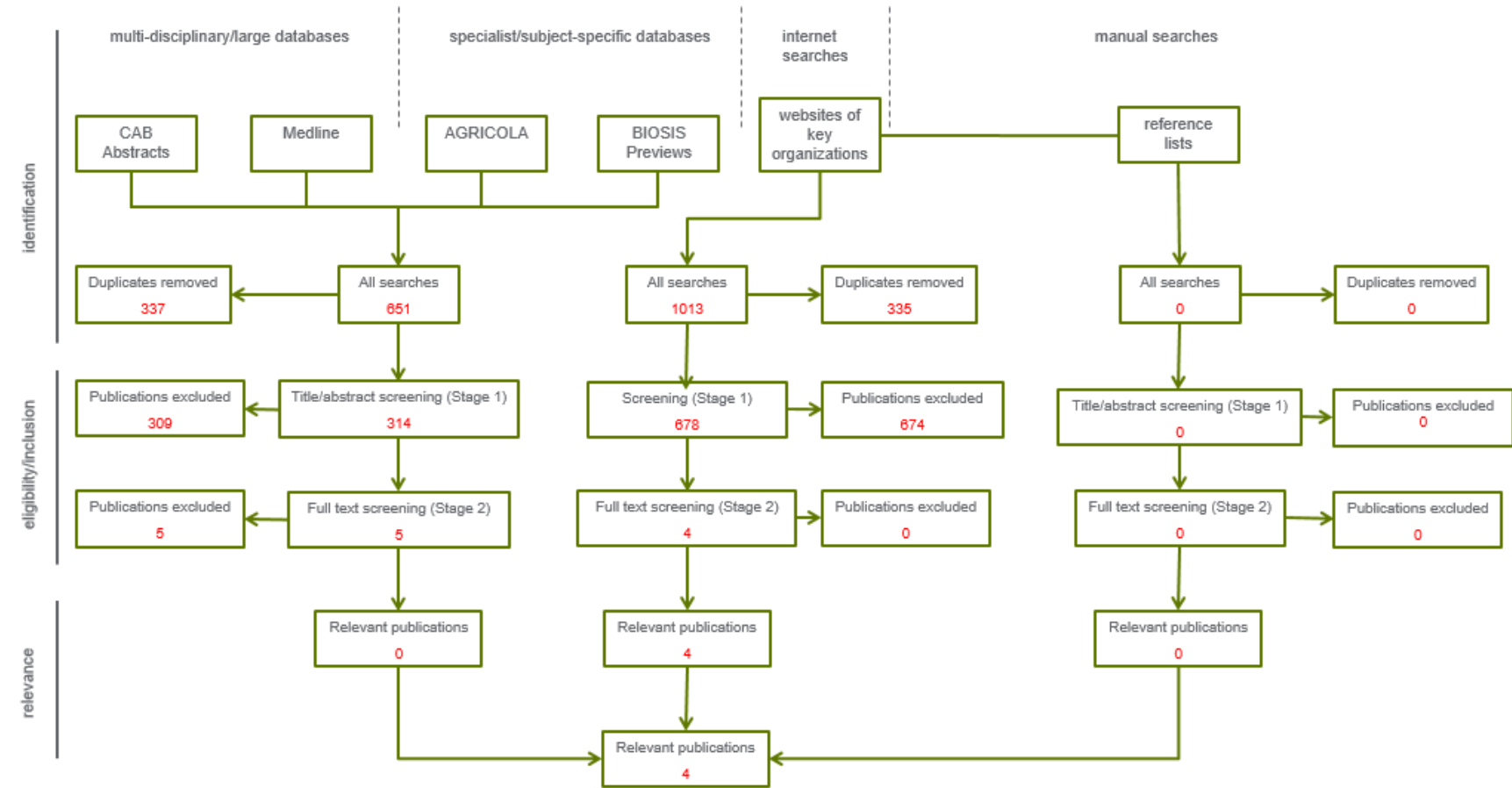
Review question and/or category of information/data requirement(s) captured in the search	Number of publications
Publications identified after all* searches of the scientific literature (excluding duplicates)	992
Database results identified	314
Internet results identified	678
**References from relevant database results identified	0
Publications excluded from the search results after screening of title and abstracts*** (stage 1)	983
Database results excluded	309
Internet results excluded	674
References from relevant database results excluded	0
Publications screened using full-text (stage 2)	5
Database results screened	5
Internet results screened	0
References from relevant database results screened (all already excluded)	0
Publications excluded after full-text screening	5
Database results full-text excluded	5
Internet results full-text excluded	0
References from relevant database results full-text excluded (all already excluded)	0
Unobtainable publications	0
Unclear publications	0
Publications considered relevant	4
Database results relevant	0
Internet results relevant	4
References from relevant database results relevant	0

*Both from electronic bibliographic databases and other sources of scientific literature.

**There were no additional record titles identified and reviewed from the references of relevant internet documents retrieved from searching regulatory agency websites.

***Due to the formatting of records (e.g. lack of abstracts) from the websites of key organizations the stage 1 review was performed by a first scanning through the documents.

FIGURE 1 **Flow chart of the publication selection process**



4.4 Relevant Publications

A list of the full bibliographic references for all relevant publications, ordered by category of information/data requirement is recorded in Table 12.

TABLE 12 Report of all relevant publications retrieved after assessment of internet documents

List of bibliographic references for all relevant publications, classified by category of information/data requirements			
Category of information/data requirement(s)	Study (Author(s) and year)	Title	Source
Risk Assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019a)	Results of the study by the crop subcommittee-Resistance to Lepidoptera and Coleoptera and herbicides glufosinate and glyphoser	http://www.affrc.maff.go.jp/docs/committee/diversity/101209/pdf/siryo_4-1.pdf
Risk Assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019b)	Results of the study by the crop subcommittee- Lepidoptera and Coleoptera pest resistance and glufosinate herbicide and glyphosate resistant Sorghum	http://www.affrc.maff.go.jp/docs/committee/diversity/110311/pdf/siryo_3-1.pdf
Risk Assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019c)	Results of the study by the crop subcommittee- Resistance to Lepidoptera and Coleoptera and herbicides glufosinate and glyphosate Resistant maize	http://www.affrc.maff.go.jp/docs/committee/diversity/120124/pdf/siryo_4_1.pdf
Risk Assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019d)	Reference 6: Opinion of academics— Cotton with resistance to glufosinate herbicide and resistance to Lepidoptera	http://www.maff.go.jp/j/press/syouan/nouan/pdf/091111-06.pdf

4.5 Excluded Publications After Detailed Assessment of Full-Text Documents

A list of the full bibliographic references for all excluded studies retrieved from database searching after detailed assessment of full-text documents for relevance (i.e. stage 2), with justification for their exclusion, is recorded in Table 13.

TABLE 13 Report of publications excluded from the risk assessment after detailed assessment of full-text documents

List of bibliographic references for all studies excluded from the risk assessment, classified by authors			
Study (Author(s) and year)	Title	Source	Reason(s) for exclusion based on eligibility/inclusion criteria
Campos RC, et al. 2018	Indirect exposure to Bt maize through pig faeces causes behavioural changes in dung beetles	Journal of Applied Entomology	Intervention/exposure not relevant
Carzoli AK, et al. 2018	Risks and opportunities of GM crops: Bt maize example	Global Food Security	Reporting format – no primary data
Costa FR, et al. 2018	Lack of effects of glyphosate and glufosinate on growth, mineral content, and yield of glyphosate- and glufosinate-resistant maize	GM Crops & Food	Intervention/exposure not relevant
Guo M, et al. 2018	[Three-generation study on neuroethology and cognitive ability of genetically modified maize with Cry1Ab and epsps genes on the SD rats]	Wei Sheng Yen Chiu/Journal of Hygiene Research	Intervention/exposure not relevant
Oliveira MR, et al. 2018	Nutritional composition and aerobic stability of wheat and corn silages stored under different environmental conditions	Semina: Ciencias Agrarias	Intervention/exposure not relevant

4.6 Unobtainable Publications

No publications were considered unobtainable.

4.7 Unclear Publications

No publications were classified as unclear.

4.8 Full-Text Documents

Full text documents for all relevant publications compiled using a reference management software (.RIS format) accompany this final report.

4.9 Narrative Synthesis/Summary of Relevant Publications

A narrative synthesis/summary of the relevant studies describing their overall volume, strength and direction per main category of information/data requirements was not reported because this literature review was conducted for annual PMEM reports on GMOs authorized in the EU market and therefore it is not required.

4.10 Implications of Relevant Publications on Risk Assessment

The implications of the relevant publications on the risk assessment was assessed by considering whether the record presents new hazards, modified exposure pathways or new scientific uncertainties.

The record reliability and its implication on the risk assessment was recorded in Table 14.

TABLE 14 Report of the reliability and implications for the risk assessment of all relevant publications retrieved after assessment of internet documents

List of bibliographic references for all relevant publications, classified by category of information/data requirements			
Category of information/data requirement(s)	Publication (Author(s) and year)	Summary of reliability appraisal	Implications for the risk assessment
Risk assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019a)	Not assignable because no or insufficient information is reported in the document	This document is considered a risk assessment based on a data package provided by the sponsor company, and contains their conclusions related to specific protection goals. The information provided in this document does not change the conclusion of the risk assessment for Bt11 × 59122 × MIR604 × 1507 × GA21 maize.
Risk assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019b)	Not assignable because no or insufficient information is reported in the document	This document is considered a risk assessment based on a data package provided by the sponsor company, and contains their conclusions related to specific protection goals. The information provided in this document does not change the conclusion of the risk assessment for Bt11 × 59122 × MIR604 × 1507 × GA21 maize.
Risk assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019c)	Not assignable because no or insufficient information is reported in the document	This document is considered a risk assessment based on a data package provided by the sponsor company, and contains their conclusions related to specific protection goals. The information provided in this document does not change the conclusion of the risk assessment for Bt11 × 59122 × MIR604 × 1507 × GA21 maize.
Risk assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019d)	Not assignable because no or insufficient information is reported in the document	This document is considered a risk assessment based on a data package provided by the sponsor company, and contains their conclusions related to specific protection goals. The information provided in this document does not change the conclusion of the risk assessment for Bt11 × 59122 × MIR604 × 1507 × GA21 maize.

5.0 RECORDS TO BE MAINTAINED

Records maintained include, but are not be limited to, documentation of database search dates, database update dates, resolution of differences of opinion on records, the protocol, and any protocol amendments or deviations.

6.0 ARCHIVING OF STUDY RECORDS

The protocol amendments, deviations, raw data, related documentation, and final report are archived at Syngenta in Research Triangle Park, NC, USA.

7.0 REFERENCES

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<http://www.maff.go.jp/j/press/syouan/nouan/pdf/091111-06.pdf> (accessed July 19, 2019).

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APPENDICES SECTION

APPENDIX A Search history and subject indexing



Terms were searched individually line by line, however when the proximity operator adj2 is used the Ovid platform displays the terms on one line as a group such as (term,term2,term3)adj2 (term4,term5,term6)



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Ovid: Search Form

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<input type="checkbox"/>	200	WBC.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1303	Advanced	Display Results More	
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<input type="checkbox"/>	207	toleran*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	99251	Advanced	Display Results More	
<input type="checkbox"/>	208	resistan*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	254679	Advanced	Display Results More	
<input type="checkbox"/>	209	protect*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	244107	Advanced	Display Results More	
<input type="checkbox"/>	210	control*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	866672	Advanced	Display Results More	
<input type="checkbox"/>	211	207 or 208 or 209 or 210	1296538	Advanced	Display Results More	
<input type="checkbox"/>	212	((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.	116330	Advanced	Display Results More	
<input type="checkbox"/>	213	Bacillus thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	9984	Advanced	Display Results More	
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	abstract, heading words]				Display Results More	
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<input type="checkbox"/>	261	GEHTs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	5	Advanced	Display Results More	—
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(* or \$ for truncation)

☒ **Keyword** ☐ Author ☐ Title ☐ Journal

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Terms were searched individually line by line, however when the proximity operator adj2 is used the Ovid platform displays the terms on one line as a group such as (term,term2,term3)adj2 (term4,term5,term6)



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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]	187	Advanced	Display Results More		Contract
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<input type="checkbox"/>	49	29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	119	Advanced	Display Results More	
<input type="checkbox"/>	50	11 or 28	63803	Advanced	Display Results More	
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<input type="checkbox"/>	75	67 or 68 or 69 or 70 or 71 or 72 or 73 or 74	1602	Advanced	Display Results More	
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<input type="checkbox"/>	100	Cry 35 Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
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<input type="checkbox"/>	207	toleran*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	337681	Advanced	Display Results More	
<input type="checkbox"/>	208	resistan*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1146211	Advanced	Display Results More	
<input type="checkbox"/>	209	protect*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1114081	Advanced	Display Results More	
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<input type="checkbox"/>	211	207 or 208 or 209 or 210	6283592	Advanced	Display Results More	
<input type="checkbox"/>	212	((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 unpuncta 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.	496966	Advanced	Display Results More	
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	(english), title, heading words]					
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(english), title, heading words]						
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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]	216	Advanced	Display Results More		Contract
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<input type="checkbox"/>	3	SYN-BT?11-1.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	4	1 or 2 or 3	262	Advanced	Display Results More		
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<input type="checkbox"/>	136	127 or 128 or 129 or 130 or 131 or 132 or 133 or 134 or 135	938	Advanced	Display Results More	
<input type="checkbox"/>	137	101 or 126	396	Advanced	Display Results More	
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	cabico					
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<input type="checkbox"/>	233	230 or 231 or 232	1369203	Advanced	Display Results More	
<input type="checkbox"/>	234	((glufosinate* or glufosinate* 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.	29637	Advanced	Display Results More	
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<input type="checkbox"/>	236	GMO*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabico	65594	Advanced	Display Results More	
<input type="checkbox"/>	237	LMO*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabico	441	Advanced	Display Results More	
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<input type="checkbox"/>	239	GE.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabico	6491	Advanced	Display Results More	
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<input type="checkbox"/>	265	255 or 264	16973	Advanced	Display Results More	
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cabcodes]					
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<input type="checkbox"/>	271	265 and 270	3181	Advanced	Display Results More
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<input type="checkbox"/>	275	272 or 273 or 274	28724	Advanced	Display Results More
<input type="checkbox"/>	276	maize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabcodes]	325233	Advanced	Display Results More
<input type="checkbox"/>	277	corn*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabcodes]	408902	Advanced	Display Results More
<input type="checkbox"/>	278	mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabcodes]	270996	Advanced	Display Results More
<input type="checkbox"/>	279	276 or 277 or 278	451874	Advanced	Display Results More
<input type="checkbox"/>	280	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	2094	Advanced	Display Results More
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<input type="checkbox"/>	282	Btcom*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabcodes]	0	Advanced	Save More
<input type="checkbox"/>	283	280 or 281 or 282	2094	Advanced	Display Results More
<input type="checkbox"/>	284	56 or 66 or 145 or 271 or 283	4036	Advanced	Display Results More
<input type="checkbox"/>	285	limit 284 to yr="2018 -Current"	156	Advanced	Display Results More

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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]	97	Advanced	Display Results More	Contract
<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]	35	Advanced	Display Results More	
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<input type="checkbox"/>	4	1 or 2 or 3	131	Advanced	Display Results More	
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<input type="checkbox"/>	49	29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	75	Advanced	Display Results More	
<input type="checkbox"/>	50	11 or 28	69967	Advanced	Display Results More	
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	concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				
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<input type="checkbox"/>	65 (Herculex* adj3 (RW* or I* or 1* or CB* or XTRA*)).mp.	13	Advanced	Display Results More	<input type="checkbox"/>
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<input type="checkbox"/>	97	Cry35Ab*.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]	36	Advanced	Display Results More	
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	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]				
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<input type="checkbox"/>	100 Cry 35 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	Save More	
<input type="checkbox"/>	101 93 or 94 or 95 or 96 or 97 or 98 or 99 or 100	38	Advanced	Display Results More	
<input type="checkbox"/>	102 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]	29	Advanced	Display Results More	
<input type="checkbox"/>	103 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	Save More	
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<input type="checkbox"/>	107 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	Display Results More	
<input type="checkbox"/>	108 102 or 103 or 104 or 105 or 106 or 107	175	Advanced	Display Results More	
<input type="checkbox"/>	109 Phosphomannoisomerase.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	Display Results More	
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<input type="checkbox"/>	112 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]	244	Advanced	Display Results More	
<input type="checkbox"/>	113 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	Save More	
<input type="checkbox"/>	114 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	Save More	
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<input type="checkbox"/>	117 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116	469	Advanced	Display Results More	

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<input type="checkbox"/>	120	Cry 1 F*.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	Display Results More	
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<input type="checkbox"/>	122	CryIF*.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	Display Results More	
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<input type="checkbox"/>	126	118 or 119 or 120 or 121 or 122 or 123 or 124 or 125	260	Advanced	Display Results More	
<input type="checkbox"/>	127	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]	6	Advanced	Display Results More	
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<input type="checkbox"/>	133	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]	52	Advanced	Display Results More	
<input type="checkbox"/>	134	"EC 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]	28	Advanced	Display Results More	
<input type="checkbox"/>	135	"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]	28	Advanced	Display Results More	
<input type="checkbox"/>	136	127 or 128 or 129 or 130 or 131 or 132 or 133 or 134 or 135	4361	Advanced	Display Results More	
<input type="checkbox"/>	137	101 or 126	291	Advanced		

			Display Results	More	
<input type="checkbox"/>	138	75 and 137	110	Advanced	Display Results More 
<input type="checkbox"/>	139	108 or 117 or 136	5001	Advanced	Display Results More 
<input type="checkbox"/>	140	101 and 139	9	Advanced	Display Results More 
<input type="checkbox"/>	141	108 or 117 or 136	5001	Advanced	Display Results More 
<input type="checkbox"/>	142	92 and 141	19	Advanced	Display Results More 
<input type="checkbox"/>	143	108 or 117 or 136	5001	Advanced	Display Results More 
<input type="checkbox"/>	144	126 and 143	6	Advanced	Display Results More 
<input type="checkbox"/>	145	138 or 140 or 142 or 144	137	Advanced	Display Results More 
<input type="checkbox"/>	146	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]	118272	Advanced	Display Results More 
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<input type="checkbox"/>	151	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]	10510	Advanced	Display Results More 
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<input type="checkbox"/>	154	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]	2326	Advanced	Display Results More 
<input type="checkbox"/>	155	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	Display Results More 
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<input type="checkbox"/>	160	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]	285	Advanced	Display Results More 

<http://ovidsp.dc2.ovid.com/sp-3.33.0b/ovidweb.cgi>

supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]						
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<input type="checkbox"/>	188	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	Save More	
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	concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				
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<input type="checkbox"/>	206 146 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 or 167 or 168 or 169 or 170 or 171 or 172 or 173 or 174 or 175 or 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 or 190 or 191 or 192 or 193 or 194 or 195 or 196 or 197 or 198 or 199 or 200 or 201 or 202 or 203 or 204 or 205	206312	Advanced	Display Results More	
<input type="checkbox"/>	207 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]	314079	Advanced	Display Results More	
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<input type="checkbox"/>	211 207 or 208 or 209 or 210	6524364	Advanced	Display Results More	
<input type="checkbox"/>	212 ((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.	28107	Advanced	Display Results More	
<input type="checkbox"/>	213 Bacillus thuringiensis.mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism	8341	Advanced	Display Results More	

	supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]					
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<input type="checkbox"/>	220 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]	72901	Advanced	Display Results More		
<input type="checkbox"/>	221 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]	461	Advanced	Display Results More		
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<input type="checkbox"/>	229 215 or 216 or 217 or 218 or 219 or 220 or 221 or 222 or 223 or 224 or 225 or 226 or 227 or 228	738361	Advanced	Display Results More		
<input type="checkbox"/>	230 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]	314079	Advanced	Display Results More		
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<input type="checkbox"/>	233	230 or 231 or 232	2042634	Advanced	Display Results More	
<input type="checkbox"/>	234	((glufosinate* or glufosinate* 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.	7956	Advanced	Display Results More	
<input type="checkbox"/>	235	212 or 213 or 214 or 234	41240	Advanced	Display Results More	
<input type="checkbox"/>	236	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]	1765	Advanced	Display Results More	
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<input type="checkbox"/>	252	((genetic* or living or biotech*) adj3 (modif* or transform* or manipulat* or improv* or engineer* or deriv*)).mp.	146154	Advanced	Display Results More	

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

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<input type="checkbox"/>	279	276 or 277 or 278	231188	Advanced	Display Results More	
<input type="checkbox"/>	280	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	743	Advanced	Display Results More	
<input type="checkbox"/>	281	Btmaize*.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	Save More	
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<input type="checkbox"/>	284	56 or 66 or 145 or 271 or 283	1538	Advanced	Display Results More	
<input type="checkbox"/>	285	limit 284 to yr="2018 -Current"	152	Advanced	Display Results More	

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