



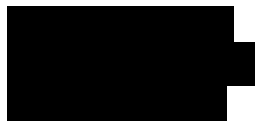
**Review of Scientific Literature Relevant to the
Food/Feed and Environmental Risk Assessment of
Event Bt11 × MIR162 × MIR604 × GA21 Maize**

Literature Review

TEST GUIDELINE(S):

Not Applicable

AUTHOR(S):



COMPLETION DATE:

November 21, 2019

PERFORMING LABORATORY:

Syngenta Crop Protection, LLC
410 Swing Road
Post Office Box 18300
Greensboro, NC 27419-8300 USA

LABORATORY PROJECT ID:

Report Number: TK0499912

SPONSOR(S):

Syngenta Crop Protection, LLC
410 Swing Road
Post Office Box 18300
Greensboro, NC 27419-8300 USA

TABLE OF CONTENTS

TABLE OF CONTENTS	2
LIST OF TABLES	3
LIST OF FIGURES	3
LIST OF ACRONYMS AND ABBREVIATIONS	4
1.0 OBJECTIVE	5
2.0 FORMULATING REVIEW QUESTIONS AND CLARIFYING THEIR PURPOSE	6
2.1 Review Question	6
2.2 Eligibility/Inclusion Criteria	7
3.0 SEARCHING FOR/IDENTIFYING RELEVANT PUBLICATIONS	14
3.1 Electronic Bibliographic Databases	14
3.2 Internet Searches	14
3.2.1 Key organizations.....	14
3.2.2 Web-based search engines and databases	16
3.2.3 Manual searches	16
3.3 Constructing the Search Strategy	16
3.3.1 Database searching.....	16
3.4 Reference Publications	22
4.0 SUMMARIZING AND REPORTING THE DATA, AND CONSIDERING THE IMPLICATIONS OF THE FINDINGS	24
4.1 Selecting Publications	24
4.1.1 Database records	24
4.1.2 Records from key organizations.....	25
4.2 Summarizing and Reporting the Data	25
4.3 Results of the Publication Selection Process	25
4.4 Relevant Publications.....	30
4.5 Excluded Publications After Detailed Assessment of Full-Text Documents	32
4.6 Unobtainable Publications	33
4.7 Unclear Publications	33
4.8 Full-Text Documents	33
4.9 Narrative Synthesis/Summary of Relevant Publications	33
4.10 Implications of Relevant Publications on Risk Assessment	33
5.0 RECORDS TO BE MAINTAINED	38

6.0	ARCHIVING OF STUDY RECORDS	38
7.0	REFERENCES	39
	APPENDICES SECTION	41
APPENDIX A	Search history and subject indexing.....	42

LIST OF TABLES

TABLE 1	Review question in PICO/PECO structure	6
TABLE 2	List of Sub-combinations in scope for Bt11 × MIR162 × MIR604 × GA21 maize	7
TABLE 3	Eligibility/Inclusion Criteria to Establish Relevance	8
TABLE 4	Overview of Main Categories of Information/Data Requirements.....	11
TABLE 5	Key Organizations Pages Included in the Search	15
TABLE 6	Search String Strategy.....	19
TABLE 7	Nomenclature for the single event and newly expressed proteins from the ISAAA database for use in searching regulatory agency web pages	22
TABLE 8	Reference publications	23
TABLE 9	Electronic bibliographic database search details.....	26
TABLE 10	Regulatory agency webpage search details.....	26
TABLE 11	Results of the publication selection process, for each review question and or group of information/data requirements searched	28
TABLE 12	Report of all relevant publications retrieved after detailed assessment of full-text documents for relevance: ordered by category of information/data requirement(s).....	30
TABLE 13	Report of all relevant publications retrieved after assessment of internet documents	30
TABLE 14	Report of publications excluded from the risk assessment after detailed assessment of full-text documents	32
TABLE 15	Report of the reliability and implications for the risk assessment of all relevant publications retrieved after detailed assessment of full-text documents for relevance: ordered by category of information/data requirement(s)	34
TABLE 16	Report of the reliability and implications for the risk assessment of all relevant publications retrieved after assessment of internet documents for relevance: ordered by category of information/data requirement(s)	36

LIST OF FIGURES

FIGURE 1	Flow chart of the publication selection process	29
----------	---	----

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 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope that is relevant to the risk assessment of genetically modified organisms.

Syngenta developed Bt11 × MIR162 × MIR604 × GA21 (*Zea mays* L., corn) by combining four individual transformation events through conventional breeding. This stacked-event maize variety provides control of certain lepidopteran and coleopteran insect pests and tolerance to glufosinate 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 MIR162 contain the transgene *vip3Aa20*, which encodes the insecticidal protein Vip3Aa20, and the transgene *pmi*, which encodes the enzyme phosphomannose isomerase (PMI). Vip3Aa20 is a variant of the native Vip3Aa1 protein from the soil bacterium *Bacillus thuringiensis* strain AB88, and is active against certain lepidopteran pests of maize, including *Spodoptera frugiperda* and *Helicoverpa zea*. The transgene *pmi* (also known as *manA*) was derived from *Escherichia coli* strain K-12. PMI enables transformed plant cells to utilize mannose as a primary carbon source; it was used as a selectable marker in the development of MIR162 maize.

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 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 × MIR162 × MIR604 × GA21 maize produces the transgenic proteins present in Event Bt11, Event MIR162, Event MIR604, and Event GA21 maize. Articles must be specific to Bt11 × MIR162 × MIR604 × 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 Bt11 × MIR162 × MIR604 × 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 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope, derived food/feed products, and/or relevant combinations of Cry1Ab, PAT, Vip3Aa20, PMI (including MIR604 PMI), modified Cry3A (mCry3A) 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 × 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. 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.

The sub-combinations relevant to the Bt11 × MIR162 × MIR604 × GA21 maize market authorization in the European Union (EU) are:

TABLE 2 List of Sub-combinations in scope for Bt11 × MIR162 × MIR604 × GA21 maize

Bt11 × MIR162 Bt11 × MIR162 × MIR604 × GA21 Bt11 × MIR162 × MIR604 Bt11 × MIR162 × GA21	MIR162 × MIR604 MIR162 × MIR604 × GA21
Bt11 × MIR604 Bt11 × MIR604 × GA21	Bt11 × GA21
	MIR162 × GA21
	MIR604 × 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 4 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	This 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 × MIR162 × MIR604 × 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.e., the higher stacked event and sub-combinations of the singles involved, independently of their origin.
Intervention/exposure	Bt11 × MIR162 × MIR604 × GA21 and all sub-combinations in scope, derived food/feed products, and/or the intended trait(s)	Intended traits include Cry1Ab, PAT, Vip3Aa20, PMI, mCry3A, MIR604 PMI, 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 Vip3Aa20 include Vip3Aa19 and Vip3A. Closely related variants of mCry3A include native Cry3A. Any enzyme classified by the author as a phosphinothricin acetyl transferase will be considered a closely related variant of the PAT protein. Any enzyme classified by the author as a phosphomannose isomerase will be considered a closely related variant of PMI. Any enzyme classified as a 5-enol pyruvylshikimate-3-phosphate synthase will be considered a closely related variant of mEPSPS.
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) were considered relevant. Based on the scope of the application certain information/data requirements are 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 were 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	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 × 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 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 was 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 × 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.

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 × MIR162 × MIR604 × GA21 maize, and its relevant sub-combinations. Therefore, GMOs that contain relevant sub-combinations of transgenic proteins, but are introduced into another plant species will be 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 × MIR162 × MIR604 × 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 × MIR162 × MIR604 × 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 × MIR162 × MIR604 × 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 added if it was generated on Bt11 x MIR162 x MIR604 x 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 x MIR162 x MIR604 x 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 x MIR162 x MIR604 x 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 GM food, derived from Bt11 x MIR162 x MIR604 x GA21 maize 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 x MIR162 x MIR604 x 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 x MIR162 x MIR604 x 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 x MIR162 x MIR604 x 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 feces 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 x MIR162 x MIR604 x 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 x MIR162 x MIR604 x 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 × MIR162 × MIR604 × GA21 maize in the EU. Cultivation of GA21 maize in the EU is not included in the scope. According to the EFSA ERA guidance (EFSA 2010): “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”. Therefore, an assessment of impact of specific cultivation, management and harvesting techniques of Bt11 × MIR162 × MIR604 × 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 × MIR162 × MIR604 × 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 × MIR162 × MIR604 × 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 × MIR162 × MIR604 × 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	URL
US Environmental Protection Agency	https://www.epa.gov/ingredients-used-pesticide-products/current-and-previously-registered-section-3-plant-incorporated
Canadian Food Inspection Agency	http://www.inspection.gc.ca/plants/plants-with-novel-traits/notices-of-submission/eng/1300143491851/1300143550790
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 1, 2018 through June 30, 2019 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 × MIR162 × MIR604 × 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 ^a	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 OOO21* OR MON 00021* OR MON empty setempty setempty set21* OR MONØØØ21* OR MONOOO21* OR MON00021* OR MONempty setempty setempty set21* OR M0N ØØØ21* OR M0N OOO21* OR M0N 00021* OR M0N empty setempty setempty set21* OR M0NØØØ21* OR M0N00021* OR M0Nempty setempty setempty set21*	Event GA21
5		#1 AND (#2 OR #3 OR #4)	Relevant event combinations
6		#2 AND (#3 OR #4)	Relevant event combinations
7		#3 AND #4	Relevant 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 sub-combinations ^b
10	Topic	Cry1Ab* OR Cry 1Ab* OR Cry1 Ab* OR Cry 1 Ab* OR Cry1Ab* OR Cry 1Ab* 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 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
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. 2.5.1.1.9	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

Set	Field	Search String	Concepts/Key Elements
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 resisten* OR protect* OR control*)) OR B thuringiensis OR Bacillus thuringiensis OR (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 resisten* 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
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

Set	Field	Search String	Concepts/Key Elements
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 × intended traits – herbicidal) AND Plant species) OR (GMO general x intended traits)

^aThe use of a wildcard in the term SYN-BT?11-1 allows this search to return results for the following variations in spelling: SYN-BTØ11-1, SYN-BT011-1, SYN-BT011-1, and SYN-BTempty set11-1.

^bTrade 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 TL, Agrisure TD, Agrisure CB/LL, Agrisure CB	Bt11
Agrisure Viptera	MIR162
Agrisure RW	MIR604
Agrisure GT, Agrisure TG, Agrisure Artesian GTA	GA21
Agrisure Viptera 2100	Bt11 × MIR162
Agrisure CB/LL/RW, Agrisure CB/RW	Bt11 × MIR604
Agrisure GT/CB/LL, Agrisure 3010, Agrisure 3010A, Agrisure Bt/GT, Agrisure TLTG	Bt11 × GA21
Agrisure Viptera 3110, Agrisure Viptera 3110A, Agrisure TLTG Viptera, Agrisure Viptera 3	Bt11 × MIR162 × GA21
Agrisure 3000GT, Agrisure Artesian 3011A	Bt11 × MIR604 × GA21
Agrisure Viptera 3111, Agrisure Viptera 3111A	Bt11 x mIR162 x MIR604 x GA21

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
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

Previously conducted literature reviews have successfully returned literature relevant to the risk assessment of Bt11 × MIR162 × MIR604 × 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 × MIR162 × MIR604 × 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 309 records retrieved from the databases (with duplicates removed). There were 305 agreements, including agreement regarding one manuscript 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	11/07/2019	Ovid Technologies	01/06/2018 to 30/06/2019	Dates	5
BIOSIS Previews	11/07/2019	Ovid Technologies	01/06/2018 to 30/06/2019	Dates	76
CAB Abstracts	11/07/2019	Ovid Technologies	01/06/2018 to 30/06/2019	Dates	83
Medline	11/07/2019	Ovid Technologies	01/06/2018 to 30/06/2019	Dates	145

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	7	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	1
Office of the Gene Technology Regulator	http://www.ogtr.gov.au/	7/25/2019	7/25/2019	June 1, 2018 to June 30, 2019	73	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	279	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	8	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	235	7
European Food Safety Authority	http://www.efsa.europa.eu/	7/25/2019	No update information provided	June 1, 2018 to June 30, 2019	74	0

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

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

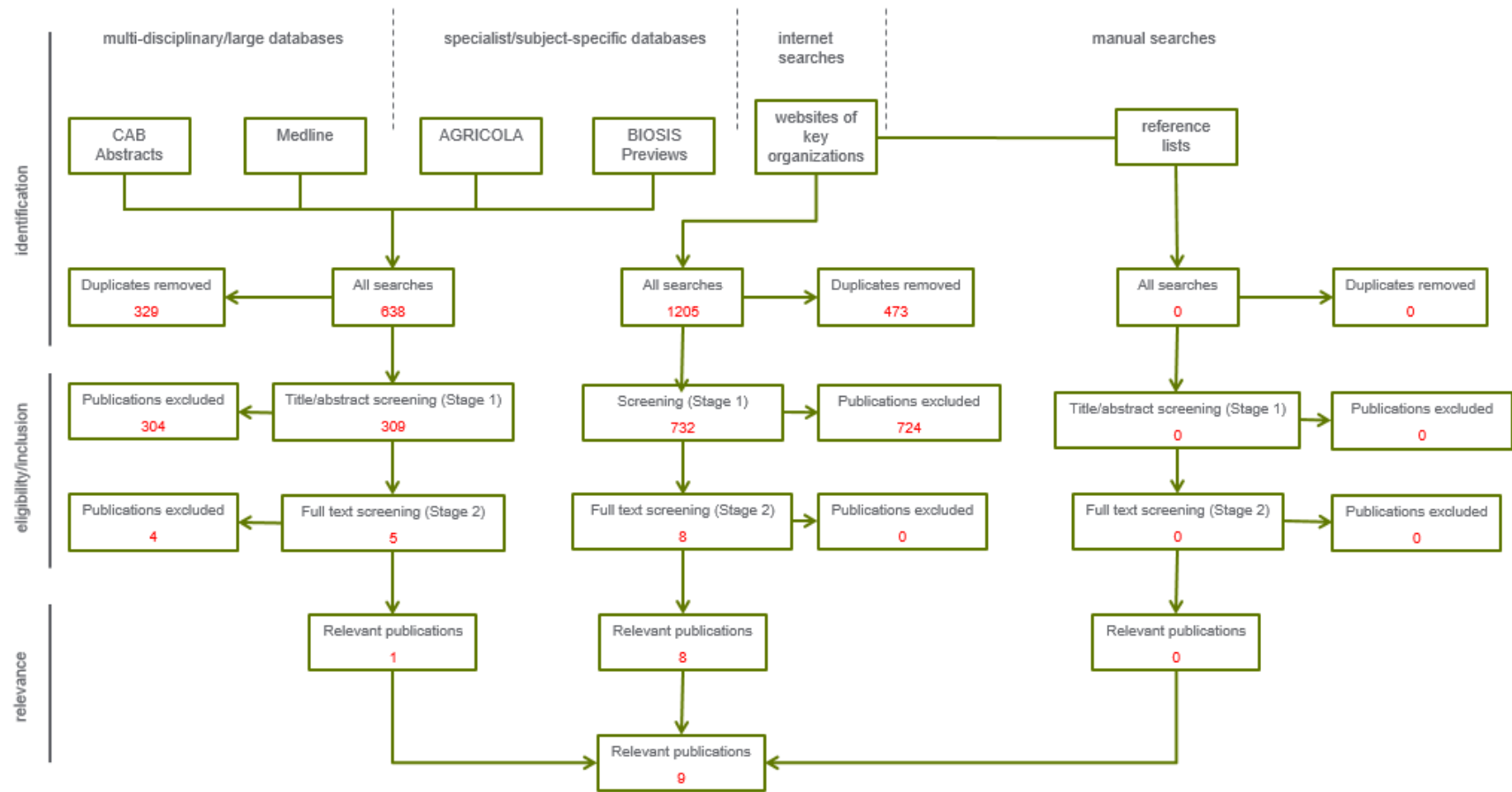
Review question and/or category of information/data requirement(s) captured in the search	Number of publications
Publications identified after all* searches of the scientific literature (excluding duplicates)	1041
Database results identified	309
Internet results identified	732
**References from relevant database results identified	0
Publications excluded from the search results after screening of title and abstracts*** (stage 1)	1028
Database results excluded	304
Internet results excluded	724
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	4
Database results full-text excluded	4
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	9
Database results relevant	1
Internet results relevant	8
References from relevant database results relevant	0

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

**There were no record titles 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. A list of the full bibliographic references for all relevant publications retrieved after assessment of internet documents is recorded in Table 13.

TABLE 12 Report of all relevant publications retrieved after detailed assessment of full-text documents for relevance: ordered by category of information/data requirement(s)

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
Assessment of interactions with nontarget organisms	Campos RC et al. 2018	Indirect exposure to Bt maize through pig faeces causes behavioural changes in dung beetles	Journal of Applied Entomology

TABLE 13 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 Document 4-1 Name: maize herbicide glyphosate resistant and Lepidoptera resistant maize	http://www.affrc.maff.go.jp/docs/committee/diversity/050721/pdf/siryou4_1.pdf
Risk Assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019b)	Results of the study by the crop subcommittee Document 3-1 Name: Lepidoptera and Coleoptera pest resistance and glufosinate herbicide-resistant corn	http://www.affrc.maff.go.jp/docs/committee/diversity/080228/pdf/siryou3_1.pdf

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 2019c)	Results of the study by the crop subcommittee Document 4-1 Name: Lepidoptera and Coleoptera pest resistance and herbicides glufosinate and glyphos Sart resistant corn	http://www.affrc.maff.go.jp/docs/committee/diversity/080228/pdf/siryoun4_1.pdf
Risk Assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019d)	Results of the study by the crop subcommittee Document 2-1 Name: Resistance to Lepidoptera and Coleoptera and herbicides glufosinate and glyphosate Resistant corn	http://www.affrc.maff.go.jp/docs/committee/diversity/091217/pdf/siryoun2-1.pdf
Risk Assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019e)	Results of the study by the crop subcommittee Document 4-1 Name: Resistance to Lepidoptera and Coleoptera and herbicides glufosinate and glyphosate Resistant maize	http://www.affrc.maff.go.jp/docs/committee/diversity/120124/pdf/siryoun4_1.pdf
Risk Assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019f)	Results of the study by the crop subcommittee Document 6-1 Name: Lepidoptera resistant and glufosinate resistant maize	http://www.affrc.maff.go.jp/docs/committee/diversity/131202/pdf/shiryoun6-1.pdf
Risk Assessment	Ministry of Agriculture, Forestry and Fisheries (MAFF 2019g)	Opinions of academics Reference 6	http://www.maff.go.jp/j/press/syoun/nouan/pdf/091111-06.pdf
Risk Assessment	The Canadian Food Inspection Agency (CFIA)	Decision Document DD2016-116 Determination of the Safety of Syngenta Canada Inc.'s Corn (Zea mays L.) Event MZHG0JG	http://www.inspection.gc.ca/plants/plants-with-novel-traits/approved-under-review/decision-documents/dd2016-116/eng/1542814694637/1542814694922

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 14.

TABLE 14 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
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 15 and in Table 16.

TABLE 15 Report of the reliability and implications for the risk assessment of all relevant publications retrieved after detailed assessment of full-text documents for relevance: ordered by category of information/data requirement(s)

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
Assessment of interactions with nontarget organisms	Campos RC et al. 2018	High: clearly described experimental procedures and reported results provide evidence of reproducibility and accuracy of the findings	<p>The authors claim a non-lethal effect of Cry1Ab that may cause population decline based on endpoint observations of dung beetles fed feces of pigs fed diets with MON810 corn (which also expresses <i>cp4 epsps</i>, making this publication relevant to the subcombination Bt11 × GA21). However, the overall results do not support this claim</p> <p>Beetles of one (<i>C. rutilans</i>) of the three species tested for foraging behaviors were slower to reach the GM resource than to reach the non-GM resource. Although all beetles reached the resource equally by 24 hours, the authors caution that this result could indicate that competition for resource among dung beetle species may lead to a potential population decline for <i>C. rutilans</i> in the wild. However, the authors do not comment on the control foraging behavior of <i>C. rutilans</i> compared to that of other species. In other words, it is possible that <i>C. rutilans</i> are naturally less competitive compared to other dung beetle species. European dung beetles are not expected to be widely exposed to Cry1Ab (or to the combination of Cry1Ab and CP4 EPSPS, as expressed in MON810) through pig faeces as typical swine production utilizes barns to maintain the animals and therefore a lack of resource available to dung beetles in the wild. In the abnormal scenario in which dung beetles would have unlimited access to</p>

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
			<p>swine confinement buildings, competition for pig feces among dung beetle species resulting in a scarce resource for <i>C. rutilans</i> would be unlikely due to the abundance of resource that would be available in a pig farm setting. (Nguyen TLT <i>et al.</i> 2012, Nguyen TLT <i>et al.</i> 2010, Basset-Mens C and Van der Werf HM 2005)</p> <p>Additionally, the fertility of <i>C. rutilans</i> was similar between GM and non-GM treatments, and reproductive success was also similar, which would not lead to an indication of a potential decline in <i>C. rutilans</i> populations.</p> <p>The authors note a significantly greater amount of non-GM resource was buried by <i>C. saphirinus</i> over the three-month period. However, the experiment resulted in a lack of a decline over time for GM treatment.</p> <p>Cry1Ab activity against coleopterans is not expected and has not been established (Van Frankenhuyzen 2013). Composition of the feces was not reported, therefore, we do not have a clear indication that any observed effect could be due to exposure to the small amount of Cry1Ab in the feces or some other difference in the composition in the feces.</p> <p>Therefore, the information in this publication does not change the conclusion of the risk assessment for Bt11 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope because no new hazards, no modified exposure, nor new scientific uncertainties were reported.</p>

TABLE 16 **Report of the reliability and implications for the risk assessment of all relevant publications retrieved after assessment of internet documents for relevance: ordered by category of information/data requirement(s)**

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 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope.
Risk assessment	Ministry of Agriculture, Forestry and Fisheries, no date provided (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 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope.
Risk assessment	Ministry of Agriculture, Forestry and Fisheries, no date provided (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 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope.
Risk assessment	Ministry of Agriculture, Forestry and Fisheries, no date provided (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 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope.

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, no date provided (MAFF 2019e)	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 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope.
Risk assessment	Ministry of Agriculture, Forestry and Fisheries, no date provided (MAFF 2019f)	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 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope.
Risk assessment	Ministry of Agriculture, Forestry and Fisheries, no date provided (MAFF 2019g)	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 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope.
Risk Assessment	The Canadian Food Inspection Agency (CFIA 2018)	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 × MIR162 × MIR604 × GA21 maize and all sub-combinations in scope.

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

- Basset-Mens, C, & Van der Werf, HM. 2005. Scenario-based environmental assessment of farming systems: the case of pig production in France. *Agriculture, Ecosystems & Environment*, 105(1-2), 127-144.
- Campos RC, Holderbaum DF, Nodari RO, Medina Hernandez MI. 2018. Indirect exposure to Bt maize through pig faeces causes behavioural changes in dung beetles. *Journal of Applied Entomology* 142: 893-900.
- Carzoli AK, Aboobucker SI, Sandall LL, LuI8bberstedt TT, Suza WP. 2018. Risks and opportunities of GM crops: Bt maize example. *Global food security* 19: 84-91.
- Costa FR, Rech R, Duke SO, Carvalho LB. 2018. Lack of effects of glyphosate and glufosinate on growth, mineral content, and yield of glyphosate- and glufosinate-resistant maize. *21645698* 9: 189-198.
- CFIA 2018. *Decision Document DD2016-116 Determination of the Safety of Syngenta Canada Inc.'s Corn (Zea mays L.) Event MZHG0JG*. Ontario, Canada. Canadian Food Inspection Agency. <http://www.inspection.gc.ca/plants/plants-with-novel-traits/approved-under-review/decision-documents/dd2016-116/eng/1542814694637/1542814694922> (November 30, 2018)
- EFSA. 2010. Scientific Opinion on the environmental risk assessment of genetically modified plants. *The EFSA Journal* 8: 1-111.
- EFSA. 2017. 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 2017:EN-1207.
- 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.
- Guo M, Han C, Li Y, Mao H, Zhao J, Chen C, Shi L, Zhuo Q. 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* 47: 419-424.
- MAFF 2019a. *Results of the study by the crop subcommittee Document 4-1 Name: maize herbicide glyphosate resistant and Lepidoptera resistant maize* Tokyo, Japan. Ministry of Agriculture, Forestry and Fisheries, no date provided. http://www.affrc.maff.go.jp/docs/commitee/diversity/050721/pdf/siryu4_1.pdf (accessed July 19 , 2019).

- MAFF 2019b. *Results of the study by the crop subcommittee Document 3-1 Name: Lepidoptera and Coleoptera pest resistance and glufosinate herbicide-resistant corn* Tokyo, Japan. Ministry of Agriculture, Forestry and Fisheries, no date provided.
http://www.affrc.maff.go.jp/docs/commitee/diversity/080228/pdf/siryou3_1.pdf
(accessed July 19, 2019).
- MAFF 2019c. *Results of the study by the crop subcommittee Document 4-1 Name: Lepidoptera and Coleoptera pest resistance and herbicides glufosinate and glyphos Sart resistant corn* Tokyo, Japan. Ministry of Agriculture, Forestry and Fisheries, no date provided.
http://www.affrc.maff.go.jp/docs/commitee/diversity/080228/pdf/siryou4_1.pdf
(accessed July 19, 2019).
- MAFF 2019d. *Results of the study by the crop subcommittee Document 2-1 Name: Resistance to Lepidoptera and Coleoptera and herbicides glufosinate and glyphosate Resistant corn* Tokyo, Japan. Ministry of Agriculture, Forestry and Fisheries, no date provided. http://www.affrc.maff.go.jp/docs/commitee/diversity/091217/pdf/siryou_2-1.pdf (accessed July 19, 2019).
- MAFF 2019e. *Results of the study by the crop subcommittee Document 4-1 Name: Resistance to Lepidoptera and Coleoptera and herbicides glufosinate and glyphosate Resistant maize.* Tokyo, Japan. Ministry of Agriculture, Forestry and Fisheries, no date provided.
http://www.affrc.maff.go.jp/docs/commitee/diversity/120124/pdf/siryo_4_1.pdf
(accessed July 19, 2019).
- MAFF 2019f. *Results of the study by the crop subcommittee Document 6-1 Name: Lepidoptera resistant and glufosinate resistant maize.* Tokyo, Japan. Ministry of Agriculture, Forestry and Fisheries, no date provided.
<http://www.affrc.maff.go.jp/docs/commitee/diversity/131202/pdf/shiryou6-1.pdf>
(accessed July 19, 2019).
- MAFF 2019g. *Opinions of academics Reference 6.* Tokyo, Japan. Ministry of Agriculture, Forestry and Fisheries, no date provided.
<http://www.maff.go.jp/j/press/syouan/nouan/pdf/091111-06.pdf>
(accessed July 2019).
- Nguyen, TLT, Hermansen, JE, & Mogensen, L. 2012. Environmental costs of meat production: the case of typical EU pork production. *Journal of Cleaner Production*, 28, 168-176.
- Nguyen, TLT, Hermansen, JE, & Mogensen, L. 2010. Fossil energy and GHG saving potentials of pig farming in the EU. *Energy Policy*, 38(5), 2561-2571.
- Oliveira MR, Bueno AVI, Leao GFM, Neumann M, Jobim CC. 2018. Nutritional composition and aerobic stability of wheat and corn silages stored under different environmental conditions. *Semina: Ciencias Agrarias* 39: 253-260.
- Van Frankenhuyzen, K. 2013. Cross-order and cross-phylum activity of *Bacillus thuringiensis* pesticidal proteins. *Journal of Invertebrate Pathology*, 114(1), 76-85.

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)



Search My Workspace

▼ Search History (246)

[View Saved](#)

<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]	90	Advanced	Display Results More		Contract
<input type="checkbox"/>	2	Bt 11.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	23	Advanced	Display Results More		
<input type="checkbox"/>	3	SYN-BT?11-1.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	4	1 or 2 or 3	112	Advanced	Display Results More		
<input type="checkbox"/>	5	MIR162.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	21	Advanced	Display Results More		
<input type="checkbox"/>	6	MIR 162.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	Display Results More		
<input type="checkbox"/>	7	SYN-IR162-4.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	8	5 or 6 or 7	24	Advanced	Display Results More		
<input type="checkbox"/>	9	MIR604.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	22	Advanced	Display Results More		
<input type="checkbox"/>	10	MIR 604.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	Display Results More		
<input type="checkbox"/>	11	SYN-IR6?4-5.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	12	9 or 10 or 11	24	Advanced	Display Results More		
<input type="checkbox"/>	13	GA21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	49	Advanced	Display Results More		
<input type="checkbox"/>	14	GA 21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	Display Results More		
<input type="checkbox"/>	15	GA21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	Display Results More		
<input type="checkbox"/>	16	GA 21.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	17	"MON ØØØ21".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	Display Results More		
<input type="checkbox"/>	18	MON ØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	19	MON ØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	20	MON empty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	21	"MONØØØ21".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	Display Results More		
<input type="checkbox"/>	22	MONØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	23	MONØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	24	MONempty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	25	"MON ØØØ21".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	26	MON ØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	27	MON ØØØ21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	28	MON empty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	29	"MONØØØ21".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		

7/11/2019

Ovid: Search Form

<input type="checkbox"/>	30	M0N00021*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	31	M0N00021*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	32	M0Nempty setempty setempty set21*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<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	56	Advanced	Display Results More	
<input type="checkbox"/>	34	8 or 12 or 33	95	Advanced	Display Results More	
<input type="checkbox"/>	35	4 and 34	32	Advanced	Display Results More	
<input type="checkbox"/>	36	12 or 33	74	Advanced	Display Results More	
<input type="checkbox"/>	37	8 and 36	3	Advanced	Display Results More	
<input type="checkbox"/>	38	12 and 33	6	Advanced	Display Results More	
<input type="checkbox"/>	39	35 or 37 or 38	33	Advanced	Display Results More	
<input type="checkbox"/>	40	Agrisure*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	15	Advanced	Display Results More	
<input type="checkbox"/>	41	Cry1Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	861	Advanced	Display Results More	
<input type="checkbox"/>	42	Cry 1Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	14	Advanced	Display Results More	
<input type="checkbox"/>	43	Cry1 Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	Display Results More	
<input type="checkbox"/>	44	Cry 1 Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	Display Results More	
<input type="checkbox"/>	45	Cry1Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	35	Advanced	Display Results More	
<input type="checkbox"/>	46	Cry lAb*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	47	Cryl Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	48	Cry l Ab*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	49	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	905	Advanced	Display Results More	
<input type="checkbox"/>	50	Phosphinothricin N acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	17	Advanced	Display Results More	
<input type="checkbox"/>	51	Phosphinothricin N acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	Display Results More	
<input type="checkbox"/>	52	Phosphinothricin acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	211	Advanced	Display Results More	
<input type="checkbox"/>	53	Phosphinothricin acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	44	Advanced	Display Results More	
<input type="checkbox"/>	54	PPT acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	Display Results More	
<input type="checkbox"/>	55	PPT acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	56	PT N acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	Display Results More	
<input type="checkbox"/>	57	PT N acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	58	Glufosinate acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	59	Glufosinate acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	60	Gluphosinate acetyltransferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	61	Gluphosinate acetyl transferase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	62	pat.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2373	Advanced	Display Results More	
<input type="checkbox"/>	63	111069-93-3.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	64	"EC 2.3.1.183".mp. [mp=meeting information, title, original title, map information,	0	Advanced	Save More	

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

2/8

	note, abstract, heading words]					
<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	Save More		
<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	2554	Advanced	Display Results More		
<input type="checkbox"/>	67 Vip3AA20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	12	Advanced	Display Results More		
<input type="checkbox"/>	68 Vip3 AA20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	69 Vip3 AA 20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	70 Vip3A A 20*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	71 67 or 68 or 69 or 70	12	Advanced	Display Results More		
<input type="checkbox"/>	72 Phosphomannoisomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	3	Advanced	Display Results More		
<input type="checkbox"/>	73 Mannose 6-phosphate isomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	39	Advanced	Display Results More		
<input type="checkbox"/>	74 Phosphomannoseisomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	75 Phosphomannose isomerase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	105	Advanced	Display Results More		
<input type="checkbox"/>	76 9023-88-5.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	77 AAA24109.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	78 "EC 5.3.1.8".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	Display Results More		
<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	Display Results More		
<input type="checkbox"/>	80 72 or 73 or 74 or 75 or 76 or 77 or 78 or 79	138	Advanced	Display Results More		
<input type="checkbox"/>	81 mCry3A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	24	Advanced	Display Results More		
<input type="checkbox"/>	82 mCry 3A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	83 mCry 3 A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	84 Cry3A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	136	Advanced	Display Results More		
<input type="checkbox"/>	85 Cry 3A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	Display Results More		
<input type="checkbox"/>	86 Cry 3 A*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	87 81 or 82 or 83 or 84 or 85 or 86	156	Advanced	Display Results More		
<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	Display Results More		
<input type="checkbox"/>	89 5 enolpyruvyl shikimate 3 phosphate synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	22	Advanced	Display Results More		
<input type="checkbox"/>	90 5 enolpyruvylshikimate 3 phosphate synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	239	Advanced	Display Results More		
<input type="checkbox"/>	91 EPSP synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	62	Advanced	Display Results More		
<input type="checkbox"/>	92 MEPSP synthase.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More		
<input type="checkbox"/>	93 EPSPS.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	404	Advanced	Display Results More		
<input type="checkbox"/>	94 MEPSPS.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	6	Advanced	Display Results More		
<input type="checkbox"/>	95 "EC 2.5.1.19".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	18	Advanced	Display Results More		
<input type="checkbox"/>	96 "E.C. 2.5.1.19".mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	18	Advanced	Display Results More		
<input type="checkbox"/>	97 88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96	563	Advanced	Display Results More		

7/11/2019

Ovid: Search Form

<input type="checkbox"/>	98	71 or 80 or 87 or 97	860	Advanced	Display Results More	
<input type="checkbox"/>	99	49 and 98	31	Advanced	Display Results More	
<input type="checkbox"/>	100	71 or 80 or 87 or 97	860	Advanced	Display Results More	
<input type="checkbox"/>	101	66 and 100	33	Advanced	Display Results More	
<input type="checkbox"/>	102	87 or 97	717	Advanced	Display Results More	
<input type="checkbox"/>	103	71 and 102	4	Advanced	Display Results More	
<input type="checkbox"/>	104	80 and 97	3	Advanced	Display Results More	
<input type="checkbox"/>	105	87 and 97	2	Advanced	Display Results More	
<input type="checkbox"/>	106	99 or 101 or 103 or 104 or 105	60	Advanced	Display Results More	
<input type="checkbox"/>	107	Insect.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	178226	Advanced	Display Results More	
<input type="checkbox"/>	108	Insects.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	231370	Advanced	Display Results More	
<input type="checkbox"/>	109	coleoptera*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	38031	Advanced	Display Results More	
<input type="checkbox"/>	110	lepidoptera*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	35549	Advanced	Display Results More	
<input type="checkbox"/>	111	pest.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	65174	Advanced	Display Results More	
<input type="checkbox"/>	112	pests.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	334015	Advanced	Display Results More	
<input type="checkbox"/>	113	stalkborer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	27	Advanced	Display Results More	
<input type="checkbox"/>	114	stalk borer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	326	Advanced	Display Results More	
<input type="checkbox"/>	115	borer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	9329	Advanced	Display Results More	
<input type="checkbox"/>	116	cornborer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	13	Advanced	Display Results More	
<input type="checkbox"/>	117	corn borer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2689	Advanced	Display Results More	
<input type="checkbox"/>	118	noctuidae.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7102	Advanced	Display Results More	
<input type="checkbox"/>	119	Crambidae.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	832	Advanced	Display Results More	
<input type="checkbox"/>	120	Chrysomelidae.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4362	Advanced	Display Results More	
<input type="checkbox"/>	121	earworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	981	Advanced	Display Results More	
<input type="checkbox"/>	122	ear worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	39	Advanced	Display Results More	
<input type="checkbox"/>	123	armyworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2880	Advanced	Display Results More	
<input type="checkbox"/>	124	army worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	143	Advanced	Display Results More	
<input type="checkbox"/>	125	cutworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1322	Advanced	Display Results More	
<input type="checkbox"/>	126	cut worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	31	Advanced	Display Results More	
<input type="checkbox"/>	127	rootworm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1422	Advanced	Display Results More	
<input type="checkbox"/>	128	root worm*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	41	Advanced	Display Results More	
<input type="checkbox"/>	129	Ostrinia.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2465	Advanced	Display Results More	
<input type="checkbox"/>	130	O nubilalis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	269	Advanced	Display Results More	
<input type="checkbox"/>	131	Diatraea.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	941	Advanced	Display Results More	
<input type="checkbox"/>	132	D grandiosella.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	22	Advanced	Display Results More	

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

4/8

7/11/2019

Ovid: Search Form

<input type="checkbox"/>	133	D crambidioides.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	Display Results More	—
<input type="checkbox"/>	134	Helicoverpa.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4542	Advanced	Display Results More	
<input type="checkbox"/>	135	H zea.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	416	Advanced	Display Results More	
<input type="checkbox"/>	136	Spodoptera.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7774	Advanced	Display Results More	
<input type="checkbox"/>	137	S frugiperda.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	422	Advanced	Display Results More	
<input type="checkbox"/>	138	S exigua.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	482	Advanced	Display Results More	
<input type="checkbox"/>	139	Papaipema.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	53	Advanced	Display Results More	
<input type="checkbox"/>	140	P nebris.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4	Advanced	Display Results More	
<input type="checkbox"/>	141	Elasmopalpus.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	137	Advanced	Display Results More	
<input type="checkbox"/>	142	E lignosellus.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	11	Advanced	Display Results More	
<input type="checkbox"/>	143	D saccharalis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	108	Advanced	Display Results More	
<input type="checkbox"/>	144	Striacosta.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	23	Advanced	Display Results More	
<input type="checkbox"/>	145	S albicosta.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	8	Advanced	Display Results More	
<input type="checkbox"/>	146	Agrotis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1016	Advanced	Display Results More	
<input type="checkbox"/>	147	A ipsilon.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	80	Advanced	Display Results More	
<input type="checkbox"/>	148	Feltia.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	41	Advanced	Display Results More	
<input type="checkbox"/>	149	F jaculifera.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	150	Pseudaletia.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	450	Advanced	Display Results More	
<input type="checkbox"/>	151	P unipuncta.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	23	Advanced	Display Results More	
<input type="checkbox"/>	152	Diabrotica.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1816	Advanced	Display Results More	
<input type="checkbox"/>	153	D virgifera.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	60	Advanced	Display Results More	
<input type="checkbox"/>	154	D barberi.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	51	Advanced	Display Results More	
<input type="checkbox"/>	155	ECB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	283	Advanced	Display Results More	
<input type="checkbox"/>	156	SWCB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	26	Advanced	Display Results More	
<input type="checkbox"/>	157	SCSB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	5	Advanced	Display Results More	
<input type="checkbox"/>	158	CEW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	58	Advanced	Display Results More	
<input type="checkbox"/>	159	FAW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	102	Advanced	Display Results More	
<input type="checkbox"/>	160	SCB.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	397	Advanced	Display Results More	
<input type="checkbox"/>	161	WBC.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1303	Advanced	Display Results More	
<input type="checkbox"/>	162	WCRW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	163	WCR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	193	Advanced	Display Results More	
<input type="checkbox"/>	164	NCRW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	165	MCR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	816	Advanced	Display Results More	

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

5/8

abstract, heading words]						
<input type="checkbox"/>	166	MCRW.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	Display Results More	
<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	469740	Advanced	Display Results More	
<input type="checkbox"/>	168	toleran*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	99251	Advanced	Display Results More	
<input type="checkbox"/>	169	resistan*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	254679	Advanced	Display Results More	
<input type="checkbox"/>	170	protect*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	244107	Advanced	Display Results More	
<input type="checkbox"/>	171	control*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	866672	Advanced	Display Results More	
<input type="checkbox"/>	172	168 or 169 or 170 or 171	1296538	Advanced	Display Results More	
<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 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 Pseudaleia 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"/>	174	B thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1589	Advanced	Display Results More	
<input type="checkbox"/>	175	Bacillus thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	9984	Advanced	Display Results More	
<input type="checkbox"/>	176	glufosinate*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1097	Advanced	Display Results More	
<input type="checkbox"/>	177	gluphosinate*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	8	Advanced	Display Results More	
<input type="checkbox"/>	178	Basta*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	418	Advanced	Display Results More	
<input type="checkbox"/>	179	Liberty*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	577	Advanced	Display Results More	
<input type="checkbox"/>	180	Ignite*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	673	Advanced	Display Results More	
<input type="checkbox"/>	181	Rely*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	14653	Advanced	Display Results More	
<input type="checkbox"/>	182	Finale*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	101	Advanced	Display Results More	
<input type="checkbox"/>	183	Challenge*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	102668	Advanced	Display Results More	
<input type="checkbox"/>	184	gl?phosate.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	6874	Advanced	Display Results More	
<input type="checkbox"/>	185	gl?fosate.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	7	Advanced	Display Results More	
<input type="checkbox"/>	186	roundup*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1233	Advanced	Display Results More	
<input type="checkbox"/>	187	round up*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	128	Advanced	Display Results More	
<input type="checkbox"/>	188	herbicide*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	53465	Advanced	Display Results More	
<input type="checkbox"/>	189	pesticide*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	119192	Advanced	Display Results More	
<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	270509	Advanced	Display Results More	
<input type="checkbox"/>	191	toleran*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	99251	Advanced	Display Results More	
<input type="checkbox"/>	192	resistan*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	254679	Advanced	Display Results More	

<input type="checkbox"/>	193	protect*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	244107	Advanced	Display Results More	
<input type="checkbox"/>	194	191 or 192 or 193	553801	Advanced	Display Results More	
<input type="checkbox"/>	195	((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.	9184	Advanced	Display Results More	
<input type="checkbox"/>	196	173 or 174 or 175 or 195	131616	Advanced	Display Results More	
<input type="checkbox"/>	197	GMO*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1273	Advanced	Display Results More	
<input type="checkbox"/>	198	LMO*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	473	Advanced	Display Results More	
<input type="checkbox"/>	199	GM.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	6771	Advanced	Display Results More	
<input type="checkbox"/>	200	GE.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	4274	Advanced	Display Results More	
<input type="checkbox"/>	201	transgen*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	48783	Advanced	Display Results More	
<input type="checkbox"/>	202	genetic*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	596884	Advanced	Display Results More	
<input type="checkbox"/>	203	living.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	49082	Advanced	Display Results More	
<input type="checkbox"/>	204	biotech*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	34315	Advanced	Display Results More	
<input type="checkbox"/>	205	202 or 203 or 204	666867	Advanced	Display Results More	
<input type="checkbox"/>	206	modif*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	207382	Advanced	Display Results More	
<input type="checkbox"/>	207	transform*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	145743	Advanced	Display Results More	
<input type="checkbox"/>	208	manipulat*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	34577	Advanced	Display Results More	
<input type="checkbox"/>	209	improv*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	433876	Advanced	Display Results More	
<input type="checkbox"/>	210	engineer*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	129917	Advanced	Display Results More	
<input type="checkbox"/>	211	deriv*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	251770	Advanced	Display Results More	
<input type="checkbox"/>	212	206 or 207 or 208 or 209 or 210 or 211	1040081	Advanced	Display Results More	
<input type="checkbox"/>	213	((genetic* or living or biotech*) adj3 (modif* or transform* or manipulat* or improv* or engineer* or deriv*)).mp.	54865	Advanced	Display Results More	
<input type="checkbox"/>	214	stack*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	11567	Advanced	Display Results More	
<input type="checkbox"/>	215	197 or 198 or 199 or 200 or 201 or 213 or 214	107118	Advanced	Display Results More	
<input type="checkbox"/>	216	196 and 215	7046	Advanced	Display Results More	
<input type="checkbox"/>	217	GMHT.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	26	Advanced	Display Results More	
<input type="checkbox"/>	218	GEHT.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	80	Advanced	Display Results More	
<input type="checkbox"/>	219	GMHR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	Display Results More	
<input type="checkbox"/>	220	GEHR.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	2	Advanced	Display Results More	
<input type="checkbox"/>	221	GMHTs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	222	GEHTs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	5	Advanced	Display Results More	
<input type="checkbox"/>	223	GMHRs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	224	GEHRs.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced	Display Results More	
<input type="checkbox"/>	225	217 or 218 or 219 or 220 or 221 or 222 or 223 or 224	116	Advanced	Display Results More	
<input type="checkbox"/>	226	216 or 225	7136	Advanced	Display Results More	
<input type="checkbox"/>	227	Maize*.mp. [mp=meeting information, title, original title, map information, note,	61578	Advanced		

abstract, heading words]			Display Results More	
<input type="checkbox"/>	228	corn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	118658	Advanced Display Results More
<input type="checkbox"/>	229	Zea mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	44869	Advanced Display Results More
<input type="checkbox"/>	230	Z mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	313	Advanced Display Results More
<input type="checkbox"/>	231	227 or 228 or 229 or 230	158231	Advanced Display Results More
<input type="checkbox"/>	232	226 and 231	1696	Advanced Display Results More
<input type="checkbox"/>	233	Bt.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	5700	Advanced Display Results More
<input type="checkbox"/>	234	Bacillus thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	9984	Advanced Display Results More
<input type="checkbox"/>	235	B thuringiensis.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1589	Advanced Display Results More
<input type="checkbox"/>	236	233 or 234 or 235	12769	Advanced Display Results More
<input type="checkbox"/>	237	maize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	61578	Advanced Display Results More
<input type="checkbox"/>	238	corn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	118658	Advanced Display Results More
<input type="checkbox"/>	239	mays.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	45040	Advanced Display Results More
<input type="checkbox"/>	240	237 or 238 or 239	158358	Advanced Display Results More
<input type="checkbox"/>	241	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	1114	Advanced Display Results More
<input type="checkbox"/>	242	Btmaize*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	1	Advanced Display Results More
<input type="checkbox"/>	243	Btcorn*.mp. [mp=meeting information, title, original title, map information, note, abstract, heading words]	0	Advanced Save More
<input type="checkbox"/>	244	241 or 242 or 243	1115	Advanced Display Results More
<input type="checkbox"/>	245	39 or 40 or 106 or 232 or 244	2009	Advanced Display Results More
<input type="checkbox"/>	246	limit 245 to yr="2018 - 2019"	88	Advanced Display Results More

[Save](#) [Remove](#) Combine with: [AND](#) [OR](#)

[Save All](#) [Edit](#) [Create RSS](#) [View Saved](#)

[Basic Search](#) | [Find Citation](#) | [Search Tools](#) | [Search Fields](#) | **[Advanced Search](#)** | [Multi-Field Search](#)

1 Resource selected | [Hide](#) | [Change](#)

AGRICOLA 1970 to July 2019

Enter keyword or phrase
(* or \$ for truncation)

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

[Search](#)

[Limits](#) (expand)

☒ Map Term to Subject Heading

Ovid® 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)



Search My Workspace

▼ Search History (246)

[View Saved](#)

# ▲	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
<input type="checkbox"/>	2 Bt 11.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	67	Advanced	Display Results More	
<input type="checkbox"/>	3 SYN-BT711-1.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	4 1 or 2 or 3	252	Advanced	Display Results More	
<input type="checkbox"/>	5 MIR162.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	75	Advanced	Display Results More	
<input type="checkbox"/>	6 MIR 162.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	13	Advanced	Display Results More	
<input type="checkbox"/>	7 SYN-IR162-4.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	8 5 or 6 or 7	84	Advanced	Display Results More	
<input type="checkbox"/>	9 MIR604.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	50	Advanced	Display Results More	
<input type="checkbox"/>	10 MIR 604.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	5	Advanced	Display Results More	
<input type="checkbox"/>	11 SYN-IR674-5.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	12 9 or 10 or 11	55	Advanced	Display Results More	
<input type="checkbox"/>	13 GA21.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	100	Advanced	Display Results More	
<input type="checkbox"/>	14 GA 21.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	11	Advanced	Display Results More	
<input type="checkbox"/>	15 GA2l.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	Display Results More	
<input type="checkbox"/>	16 GA 2l.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	17 "MON ØØØ21*".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	6	Advanced	Display Results More	
<input type="checkbox"/>	18 MON ØØØ21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	19 MON ØØØ21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	20 MON empty setempty setempty set21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	21 "MONØØØ21*".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	Display Results More	
<input type="checkbox"/>	22 MONØØØ21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	23 MONØØØ21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	24 MONempty setempty setempty set21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	25 "MON ØØØ21*".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	26 MON ØØØ21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	27 MØN ØØØ21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	28 MØN empty setempty setempty set21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	29 "MONØØØ21*".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	30 MØNØØØ21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	

	(english), title, heading words]					
<input type="checkbox"/>	31	M0N00021*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	32	M0Nempty setempty setempty set21*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<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	119	Advanced	Display Results More	
<input type="checkbox"/>	34	8 or 12 or 33	229	Advanced	Display Results More	
<input type="checkbox"/>	35	4 and 34	60	Advanced	Display Results More	
<input type="checkbox"/>	36	12 or 33	155	Advanced	Display Results More	
<input type="checkbox"/>	37	8 and 36	10	Advanced	Display Results More	
<input type="checkbox"/>	38	12 and 33	19	Advanced	Display Results More	
<input type="checkbox"/>	39	35 or 37 or 38	66	Advanced	Display Results More	
<input type="checkbox"/>	40	Agrisure*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	24	Advanced	Display Results More	
<input type="checkbox"/>	41	Cry1Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1514	Advanced	Display Results More	
<input type="checkbox"/>	42	Cry 1Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	43	Advanced	Display Results More	
<input type="checkbox"/>	43	Cry1 Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	35	Advanced	Display Results More	
<input type="checkbox"/>	44	Cry 1 Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	13	Advanced	Display Results More	
<input type="checkbox"/>	45	Cry1Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	49	Advanced	Display Results More	
<input type="checkbox"/>	46	Cry IAb*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	Display Results More	
<input type="checkbox"/>	47	Cryl Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	48	Cry I Ab*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	20	Advanced	Display Results More	
<input type="checkbox"/>	49	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	1602	Advanced	Display Results More	
<input type="checkbox"/>	50	Phosphinothricin N acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	42	Advanced	Display Results More	
<input type="checkbox"/>	51	Phosphinothricin N acetyl transferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	10	Advanced	Display Results More	
<input type="checkbox"/>	52	Phosphinothricin acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	188	Advanced	Display Results More	
<input type="checkbox"/>	53	Phosphinothricin acetyl transferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	106	Advanced	Display Results More	
<input type="checkbox"/>	54	PPT acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	3	Advanced	Display Results More	
<input type="checkbox"/>	55	PPT acetyl transferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	Display Results More	
<input type="checkbox"/>	56	PT N acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	3	Advanced	Display Results More	
<input type="checkbox"/>	57	PT N acetyl transferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	58	Glufosinate acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	59	Glufosinate acetyl transferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	60	Gluphosinate acetyltransferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	61	Gluphosinate acetyl transferase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	62	pat.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	5780	Advanced	Display Results More	
<input type="checkbox"/>	63	111069-93-3.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	130	Advanced	Display Results More	
<input type="checkbox"/>	64	"EC 2.3.1.183".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	36	Advanced	Display Results More	
<input type="checkbox"/>	65	"E.C. 2.3.1.183".mp. [mp=abstract, original language book title (non-english), book	36	Advanced	Display Results More	

	title (english), title, heading words]					
<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	5975	Advanced	Display Results	More	
<input type="checkbox"/>	67 Vip3AA20*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	35	Advanced	Display Results	More	
<input type="checkbox"/>	68 Vip3 AA20*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save	More	
<input type="checkbox"/>	69 Vip3 AA 20*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save	More	
<input type="checkbox"/>	70 Vip3A A 20*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save	More	
<input type="checkbox"/>	71 67 or 68 or 69 or 70	35	Advanced	Display Results	More	
<input type="checkbox"/>	72 Phosphomannoisomerase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	22	Advanced	Display Results	More	
<input type="checkbox"/>	73 Mannose 6-phosphate isomerase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	128	Advanced	Display Results	More	
<input type="checkbox"/>	74 Phosphomannoseisomerase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	2	Advanced	Display Results	More	
<input type="checkbox"/>	75 Phosphomannose isomerase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	391	Advanced	Display Results	More	
<input type="checkbox"/>	76 9023-88-5.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	482	Advanced	Display Results	More	
<input type="checkbox"/>	77 AAA24109.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save	More	
<input type="checkbox"/>	78 "EC 5.3.1.8".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	277	Advanced	Display Results	More	
<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]	277	Advanced	Display Results	More	
<input type="checkbox"/>	80 72 or 73 or 74 or 75 or 76 or 77 or 78 or 79	737	Advanced	Display Results	More	
<input type="checkbox"/>	81 mCry3A*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	52	Advanced	Display Results	More	
<input type="checkbox"/>	82 mCry 3A*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save	More	
<input type="checkbox"/>	83 mCry 3 A*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save	More	
<input type="checkbox"/>	84 Cry3A*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	267	Advanced	Display Results	More	
<input type="checkbox"/>	85 Cry 3A*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	10	Advanced	Display Results	More	
<input type="checkbox"/>	86 Cry 3 A*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	2	Advanced	Display Results	More	
<input type="checkbox"/>	87 81 or 82 or 83 or 84 or 85 or 86	316	Advanced	Display Results	More	
<input type="checkbox"/>	88 5 enol pyruvyl shikimate 3 phosphate synthase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	21	Advanced	Display Results	More	
<input type="checkbox"/>	89 5 enolpyruvyl shikimate 3 phosphate synthase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	76	Advanced	Display Results	More	
<input type="checkbox"/>	90 5 enolpyruvylshikimate 3 phosphate synthase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	606	Advanced	Display Results	More	
<input type="checkbox"/>	91 EPSP synthase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	263	Advanced	Display Results	More	
<input type="checkbox"/>	92 MEPSP synthase.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save	More	
<input type="checkbox"/>	93 EPSPS.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	4665	Advanced	Display Results	More	
<input type="checkbox"/>	94 MEPSPS.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	67	Advanced	Display Results	More	
<input type="checkbox"/>	95 "EC 2.5.1.19".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	328	Advanced	Display Results	More	
<input type="checkbox"/>	96 "E.C. 2.5.1.19".mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	328	Advanced	Display Results	More	
<input type="checkbox"/>	97 88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96	5190	Advanced	Display Results	More	
<input type="checkbox"/>	98 71 or 80 or 87 or 97	6253	Advanced	Display Results	More	
<input type="checkbox"/>	99 49 and 98	78	Advanced	Display Results	More	

7/11/2019

Ovid: Search Form

<input type="checkbox"/>	100	71 or 80 or 87 or 97	6253	Advanced	Display Results More	—
<input type="checkbox"/>	101	66 and 100	58	Advanced	Display Results More	🗨
<input type="checkbox"/>	102	87 or 97	5499	Advanced	Display Results More	🗨
<input type="checkbox"/>	103	71 and 102	14	Advanced	Display Results More	🗨
<input type="checkbox"/>	104	80 and 97	3	Advanced	Display Results More	🗨
<input type="checkbox"/>	105	87 and 97	7	Advanced	Display Results More	🗨
<input type="checkbox"/>	106	99 or 101 or 103 or 104 or 105	129	Advanced	Display Results More	🗨
<input type="checkbox"/>	107	Insect.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	170143	Advanced	Display Results More	🗨
<input type="checkbox"/>	108	Insects.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	975091	Advanced	Display Results More	🗨
<input type="checkbox"/>	109	coleoptera*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	161898	Advanced	Display Results More	🗨
<input type="checkbox"/>	110	lepidoptera*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	186658	Advanced	Display Results More	🗨
<input type="checkbox"/>	111	pest.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	518225	Advanced	Display Results More	🗨
<input type="checkbox"/>	112	pests.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	91363	Advanced	Display Results More	🗨
<input type="checkbox"/>	113	stalkborer*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	46	Advanced	Display Results More	🗨
<input type="checkbox"/>	114	stalk borer*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	455	Advanced	Display Results More	🗨
<input type="checkbox"/>	115	borer*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	13767	Advanced	Display Results More	🗨
<input type="checkbox"/>	116	cornborer*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	24	Advanced	Display Results More	🗨
<input type="checkbox"/>	117	corn borer*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	3229	Advanced	Display Results More	🗨
<input type="checkbox"/>	118	noctuidae.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	12692	Advanced	Display Results More	🗨
<input type="checkbox"/>	119	Crambidae.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1751	Advanced	Display Results More	🗨
<input type="checkbox"/>	120	Chrysomelidae.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	8407	Advanced	Display Results More	🗨
<input type="checkbox"/>	121	earworm*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1337	Advanced	Display Results More	🗨
<input type="checkbox"/>	122	ear worm*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	34	Advanced	Display Results More	🗨
<input type="checkbox"/>	123	armyworm*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	5187	Advanced	Display Results More	🗨
<input type="checkbox"/>	124	army worm*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	187	Advanced	Display Results More	🗨
<input type="checkbox"/>	125	cutworm*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1857	Advanced	Display Results More	🗨
<input type="checkbox"/>	126	cut worm*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	41	Advanced	Display Results More	🗨
<input type="checkbox"/>	127	rootworm*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	2031	Advanced	Display Results More	🗨
<input type="checkbox"/>	128	root worm*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	37	Advanced	Display Results More	🗨
<input type="checkbox"/>	129	Ostrinia.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	3495	Advanced	Display Results More	🗨
<input type="checkbox"/>	130	O nubilalis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	618	Advanced	Display Results More	🗨
<input type="checkbox"/>	131	Diatraea.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1221	Advanced	Display Results More	🗨
<input type="checkbox"/>	132	D grandiosella.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	101	Advanced	Display Results More	🗨
<input type="checkbox"/>	133	D crambidoides.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	3	Advanced	Display Results More	🗨
<input type="checkbox"/>	134	Helicoverpa.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	7123	Advanced	Display Results More	🗨

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

4/8

7/11/2019

Ovid: Search Form

<input type="checkbox"/>	135	H zea.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1026	Advanced	Display Results More	
<input type="checkbox"/>	136	Spodoptera.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	18170	Advanced	Display Results More	
<input type="checkbox"/>	137	S frugiperda.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1095	Advanced	Display Results More	
<input type="checkbox"/>	138	S exigua.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1071	Advanced	Display Results More	
<input type="checkbox"/>	139	Papaipema.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	56	Advanced	Display Results More	
<input type="checkbox"/>	140	P nebris.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	10	Advanced	Display Results More	
<input type="checkbox"/>	141	Elasmopalpus.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	163	Advanced	Display Results More	
<input type="checkbox"/>	142	E lignosellus.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	38	Advanced	Display Results More	
<input type="checkbox"/>	143	D saccharalis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	297	Advanced	Display Results More	
<input type="checkbox"/>	144	Striacosta.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	37	Advanced	Display Results More	
<input type="checkbox"/>	145	S albicosta.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	14	Advanced	Display Results More	
<input type="checkbox"/>	146	Agrotis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1866	Advanced	Display Results More	
<input type="checkbox"/>	147	A ipsilon.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	216	Advanced	Display Results More	
<input type="checkbox"/>	148	Feltia.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	80	Advanced	Display Results More	
<input type="checkbox"/>	149	F jaculifera.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	3	Advanced	Display Results More	
<input type="checkbox"/>	150	Pseudaletia.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	688	Advanced	Display Results More	
<input type="checkbox"/>	151	P unipuncta.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	85	Advanced	Display Results More	
<input type="checkbox"/>	152	Diabrotica.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	2699	Advanced	Display Results More	
<input type="checkbox"/>	153	D virgifera.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	157	Advanced	Display Results More	
<input type="checkbox"/>	154	D barberi.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	95	Advanced	Display Results More	
<input type="checkbox"/>	155	ECB.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1215	Advanced	Display Results More	
<input type="checkbox"/>	156	SWCB.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	46	Advanced	Display Results More	
<input type="checkbox"/>	157	SCSB.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	76	Advanced	Display Results More	
<input type="checkbox"/>	158	CEW.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	129	Advanced	Display Results More	
<input type="checkbox"/>	159	FAW.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	246	Advanced	Display Results More	
<input type="checkbox"/>	160	SCB.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	885	Advanced	Display Results More	
<input type="checkbox"/>	161	WBC.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	22106	Advanced	Display Results More	
<input type="checkbox"/>	162	WCRW.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	4	Advanced	Display Results More	
<input type="checkbox"/>	163	WCR.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	416	Advanced	Display Results More	
<input type="checkbox"/>	164	NCRW.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	Display Results More	
<input type="checkbox"/>	165	MCR.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	3994	Advanced	Display Results More	
<input type="checkbox"/>	166	MCRW.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<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	1365480	Advanced	Display Results More	

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

5/8

	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				
<input type="checkbox"/>	168 toleran*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	337681	Advanced	Display Results More	
<input type="checkbox"/>	169 resistan*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1146211	Advanced	Display Results More	
<input type="checkbox"/>	170 protect*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1114081	Advanced	Display Results More	
<input type="checkbox"/>	171 control*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	4414698	Advanced	Display Results More	
<input type="checkbox"/>	172 168 or 169 or 170 or 171	6283592	Advanced	Display Results More	
<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.	496966	Advanced	Display Results More	
<input type="checkbox"/>	174 B thuringiensis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	4256	Advanced	Display Results More	
<input type="checkbox"/>	175 Bacillus thuringiensis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	18271	Advanced	Display Results More	
<input type="checkbox"/>	176 glufosinate*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1406	Advanced	Display Results More	
<input type="checkbox"/>	177 gluphosinate*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	19	Advanced	Display Results More	
<input type="checkbox"/>	178 Basta*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1297	Advanced	Display Results More	
<input type="checkbox"/>	179 Liberty*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1230	Advanced	Display Results More	
<input type="checkbox"/>	180 Ignite*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1253	Advanced	Display Results More	
<input type="checkbox"/>	181 Rely*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	60825	Advanced	Display Results More	
<input type="checkbox"/>	182 Finale*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	245	Advanced	Display Results More	
<input type="checkbox"/>	183 Challenge*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	444396	Advanced	Display Results More	
<input type="checkbox"/>	184 gl?phosate.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	10305	Advanced	Display Results More	
<input type="checkbox"/>	185 gl?fosate.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	9	Advanced	Display Results More	
<input type="checkbox"/>	186 roundup*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1656	Advanced	Display Results More	
<input type="checkbox"/>	187 round up*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	439	Advanced	Display Results More	
<input type="checkbox"/>	188 herbicide*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	460122	Advanced	Display Results More	
<input type="checkbox"/>	189 pesticide*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	486217	Advanced	Display Results More	
<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	994263	Advanced	Display Results More	
<input type="checkbox"/>	191 toleran*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	337681	Advanced	Display Results More	
<input type="checkbox"/>	192 resistan*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1146211	Advanced	Display Results More	
<input type="checkbox"/>	193 protect*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1114081	Advanced	Display Results More	
<input type="checkbox"/>	194 191 or 192 or 193	2456456	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.	17317	Advanced	Display Results More	
<input type="checkbox"/>	196 173 or 174 or 175 or 195	512719	Advanced	Display Results More	

<input type="checkbox"/>	197	GMO*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	2634	Advanced	Display Results More	
<input type="checkbox"/>	198	LMO*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	3006	Advanced	Display Results More	
<input type="checkbox"/>	199	GM.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	62071	Advanced	Display Results More	
<input type="checkbox"/>	200	GE.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	13511	Advanced	Display Results More	
<input type="checkbox"/>	201	transgen*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	257366	Advanced	Display Results More	
<input type="checkbox"/>	202	genetic*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	5976580	Advanced	Display Results More	
<input type="checkbox"/>	203	living.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	256120	Advanced	Display Results More	
<input type="checkbox"/>	204	biotech*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	146691	Advanced	Display Results More	
<input type="checkbox"/>	205	202 or 203 or 204	6277558	Advanced	Display Results More	
<input type="checkbox"/>	206	modif*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	959412	Advanced	Display Results More	
<input type="checkbox"/>	207	transform*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	572942	Advanced	Display Results More	
<input type="checkbox"/>	208	manipulat*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	179942	Advanced	Display Results More	
<input type="checkbox"/>	209	improv*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1688057	Advanced	Display Results More	
<input type="checkbox"/>	210	engineer*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	523873	Advanced	Display Results More	
<input type="checkbox"/>	211	deriv*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1426344	Advanced	Display Results More	
<input type="checkbox"/>	212	206 or 207 or 208 or 209 or 210 or 211	4709699	Advanced	Display Results More	
<input type="checkbox"/>	213	((genetic* or living or biotech*) adj3 (modif* or transform* or manipulat* or improv* or engineer* or deriv*)).mp.	152317	Advanced	Display Results More	
<input type="checkbox"/>	214	stack*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	30056	Advanced	Display Results More	
<input type="checkbox"/>	215	197 or 198 or 199 or 200 or 201 or 213 or 214	490734	Advanced	Display Results More	
<input type="checkbox"/>	216	196 and 215	15370	Advanced	Display Results More	
<input type="checkbox"/>	217	GMHT.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	58	Advanced	Display Results More	
<input type="checkbox"/>	218	GEHT.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	30	Advanced	Display Results More	
<input type="checkbox"/>	219	GMHR.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	5	Advanced	Display Results More	
<input type="checkbox"/>	220	GEHR.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	14	Advanced	Display Results More	
<input type="checkbox"/>	221	GMHTs.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	222	GEHTs.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	Display Results More	
<input type="checkbox"/>	223	GMHRs.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	0	Advanced	Save More	
<input type="checkbox"/>	224	GEHRs.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	4	Advanced	Display Results More	
<input type="checkbox"/>	225	217 or 218 or 219 or 220 or 221 or 222 or 223 or 224	112	Advanced	Display Results More	
<input type="checkbox"/>	226	216 or 225	15422	Advanced	Display Results More	
<input type="checkbox"/>	227	Maize*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	104317	Advanced	Display Results More	
<input type="checkbox"/>	228	corn*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	252938	Advanced	Display Results More	
<input type="checkbox"/>	229	Zea mays.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	57046	Advanced	Display Results More	
<input type="checkbox"/>	230	Z mays.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1945	Advanced	Display Results More	
<input type="checkbox"/>	231	227 or 228 or 229 or 230	359018	Advanced	Display Results More	

7/11/2019

Ovid: Search Form

<input type="checkbox"/>	232	226 and 231	2834	Advanced	Display Results More	
<input type="checkbox"/>	233	Bt.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	19349	Advanced	Display Results More	
<input type="checkbox"/>	234	Bacillus thuringiensis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	18271	Advanced	Display Results More	
<input type="checkbox"/>	235	B thuringiensis.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	4256	Advanced	Display Results More	
<input type="checkbox"/>	236	233 or 234 or 235	33320	Advanced	Display Results More	
<input type="checkbox"/>	237	maize*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	104317	Advanced	Display Results More	
<input type="checkbox"/>	238	corn*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	252938	Advanced	Display Results More	
<input type="checkbox"/>	239	mays.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	57291	Advanced	Display Results More	
<input type="checkbox"/>	240	237 or 238 or 239	359223	Advanced	Display Results More	
<input type="checkbox"/>	241	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	1663	Advanced	Display Results More	
<input type="checkbox"/>	242	Btmaize*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	Display Results More	
<input type="checkbox"/>	243	Btcom*.mp. [mp=abstract, original language book title (non-english), book title (english), title, heading words]	1	Advanced	Display Results More	
<input type="checkbox"/>	244	241 or 242 or 243	1663	Advanced	Display Results More	
<input type="checkbox"/>	245	39 or 40 or 106 or 232 or 244	3605	Advanced	Display Results More	
<input type="checkbox"/>	246	limit 245 to yr="2018 - 2019"	247	Advanced	Display Results More	

Combine with:

[View Saved](#)

[Basic Search](#) | [Find Citation](#) | [Search Tools](#) | [Search Fields](#) | **[Advanced Search](#)** | [Multi-Field Search](#)

1 Resource selected | [Hide](#) | [Change](#)

BIOSIS Previews 1969 to 2019 Week 32

Enter keyword or phrase
(* or \$ for truncation)

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

Limits *(expand)*

☐ Map Term to Subject Heading

Ovid® 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)



Search My Workspace

▼ Search History (246)

[View Saved](#)

<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
<input type="checkbox"/>	2	Bt 11.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	50	Advanced	Display Results More		
<input type="checkbox"/>	3	SYN-BT711-1.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		
<input type="checkbox"/>	5	MIR162.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	46	Advanced	Display Results More		
<input type="checkbox"/>	6	MIR 162.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2	Advanced	Display Results More		
<input type="checkbox"/>	7	SYN-IR162-4.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	8	5 or 6 or 7	48	Advanced	Display Results More		
<input type="checkbox"/>	9	MIR604.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	43	Advanced	Display Results More		
<input type="checkbox"/>	10	MIR 604.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2	Advanced	Display Results More		
<input type="checkbox"/>	11	SYN-IR674-5.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	Display Results More		
<input type="checkbox"/>	12	9 or 10 or 11	45	Advanced	Display Results More		
<input type="checkbox"/>	13	GA21.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	100	Advanced	Display Results More		
<input type="checkbox"/>	14	GA 21.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	11	Advanced	Display Results More		
<input type="checkbox"/>	15	GA2l.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	Display Results More		
<input type="checkbox"/>	16	GA 2l.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	17	"MON ØØØ21*".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	25	Advanced	Display Results More		
<input type="checkbox"/>	18	MON ØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	19	MON ØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	20	MON empty setempty setempty set21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	21	"MONØØØ21*".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2	Advanced	Display Results More		
<input type="checkbox"/>	22	MONØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	23	MONØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	24	MONempty setempty setempty set21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	25	"MON ØØØ21*".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	26	MON ØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	27	MON ØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	28	MON empty setempty setempty set21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	29	"MONØØØ21*".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	30	MONØØØ21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		

identifiers, cabicodes]							
<input type="checkbox"/>	31	MON00021*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	32	MONempty setempty setempty set21*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<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	137	Advanced	Display Results More		
<input type="checkbox"/>	34	8 or 12 or 33	205	Advanced	Display Results More		
<input type="checkbox"/>	35	4 and 34	64	Advanced	Display Results More		
<input type="checkbox"/>	36	12 or 33	165	Advanced	Display Results More		
<input type="checkbox"/>	37	8 and 36	8	Advanced	Display Results More		
<input type="checkbox"/>	38	12 and 33	17	Advanced	Display Results More		
<input type="checkbox"/>	39	35 or 37 or 38	66	Advanced	Display Results More		
<input type="checkbox"/>	40	Agrisure*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	23	Advanced	Display Results More		
<input type="checkbox"/>	41	Cry1Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1456	Advanced	Display Results More		
<input type="checkbox"/>	42	Cry 1Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	37	Advanced	Display Results More		
<input type="checkbox"/>	43	Cry1 Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	17	Advanced	Display Results More		
<input type="checkbox"/>	44	Cry 1 Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	8	Advanced	Display Results More		
<input type="checkbox"/>	45	Cry1Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	42	Advanced	Display Results More		
<input type="checkbox"/>	46	Cry IAb*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	Display Results More		
<input type="checkbox"/>	47	Cryl Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	48	Cry I Ab*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	49	41 or 42 or 43 or 44 or 45 or 46 or 47 or 48	1535	Advanced	Display Results More		
<input type="checkbox"/>	50	Phosphinothricin N acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	26	Advanced	Display Results More		
<input type="checkbox"/>	51	Phosphinothricin N acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	Display Results More		
<input type="checkbox"/>	52	Phosphinothricin acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	282	Advanced	Display Results More		
<input type="checkbox"/>	53	Phosphinothricin acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	52	Advanced	Display Results More		
<input type="checkbox"/>	54	PPT acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3	Advanced	Display Results More		
<input type="checkbox"/>	55	PPT acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	Display Results More		
<input type="checkbox"/>	56	PT N acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2	Advanced	Display Results More		
<input type="checkbox"/>	57	PT N acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	58	Glufosinate acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	9	Advanced	Display Results More		
<input type="checkbox"/>	59	Glufosinate acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	60	Gluphosinate acetyltransferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	61	Gluphosinate acetyl transferase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	62	pat.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2511	Advanced	Display Results More		
<input type="checkbox"/>	63	111069-93-3.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	64	"EC 2.3.1.183".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		
<input type="checkbox"/>	65	"E.C. 2.3.1.183".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More		

	identifiers, cabicodes]					
<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	2733	Advanced	Display Results More	
<input type="checkbox"/>	67	Vip3AA20*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	27	Advanced	Display Results More	
<input type="checkbox"/>	68	Vip3 AA20*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	69	Vip3 AA 20*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	70	Vip3A A 20*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	71	67 or 68 or 69 or 70	27	Advanced	Display Results More	
<input type="checkbox"/>	72	Phosphomannoisomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	4	Advanced	Display Results More	
<input type="checkbox"/>	73	Mannose 6-phosphate isomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	120	Advanced	Display Results More	
<input type="checkbox"/>	74	Phosphomannoseisomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	75	Phosphomannose isomerase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	146	Advanced	Display Results More	
<input type="checkbox"/>	76	9023-88-5.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	77	AAA24109.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	78	"EC 5.3.1.8".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	Display Results More	
<input type="checkbox"/>	79	"E.C. 5.3.1.8".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	Display Results More	
<input type="checkbox"/>	80	72 or 73 or 74 or 75 or 76 or 77 or 78 or 79	225	Advanced	Display Results More	
<input type="checkbox"/>	81	mCry3A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	38	Advanced	Display Results More	
<input type="checkbox"/>	82	mCry 3A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	83	mCry 3 A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	84	Cry3A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	213	Advanced	Display Results More	
<input type="checkbox"/>	85	Cry 3A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	Display Results More	
<input type="checkbox"/>	86	Cry 3 A*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	Display Results More	
<input type="checkbox"/>	87	81 or 82 or 83 or 84 or 85 or 86	249	Advanced	Display Results More	
<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	Display Results More	
<input type="checkbox"/>	89	5 enolpyruvyl shikimate 3 phosphate synthase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	41	Advanced	Display Results More	
<input type="checkbox"/>	90	5 enolpyruvylshikimate 3 phosphate synthase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	319	Advanced	Display Results More	
<input type="checkbox"/>	91	EPSP synthase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	100	Advanced	Display Results More	
<input type="checkbox"/>	92	MEPSP synthase.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	93	EPSPS.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	720	Advanced	Display Results More	
<input type="checkbox"/>	94	MEPSPS.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	26	Advanced	Display Results More	
<input type="checkbox"/>	95	"EC 2.5.1.19".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	20	Advanced	Display Results More	
<input type="checkbox"/>	96	"E.C. 2.5.1.19".mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	20	Advanced	Display Results More	
<input type="checkbox"/>	97	88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96	938	Advanced	Display Results More	
<input type="checkbox"/>	98	71 or 80 or 87 or 97	1422	Advanced	Display Results More	
<input type="checkbox"/>	99	49 and 98	76	Advanced	Display Results More	

7/11/2019

Ovid: Search Form

<input type="checkbox"/>	100	71 or 80 or 87 or 97	1422	Advanced	Display Results More	—
<input type="checkbox"/>	101	66 and 100	61	Advanced	Display Results More	🗨
<input type="checkbox"/>	102	87 or 97	1182	Advanced	Display Results More	🗨
<input type="checkbox"/>	103	71 and 102	7	Advanced	Display Results More	🗨
<input type="checkbox"/>	104	80 and 97	3	Advanced	Display Results More	🗨
<input type="checkbox"/>	105	87 and 97	5	Advanced	Display Results More	🗨
<input type="checkbox"/>	106	99 or 101 or 103 or 104 or 105	127	Advanced	Display Results More	🗨
<input type="checkbox"/>	107	Insect.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	402179	Advanced	Display Results More	🗨
<input type="checkbox"/>	108	Insects.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	939960	Advanced	Display Results More	🗨
<input type="checkbox"/>	109	coleoptera*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	166693	Advanced	Display Results More	🗨
<input type="checkbox"/>	110	lepidoptera*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	201536	Advanced	Display Results More	🗨
<input type="checkbox"/>	111	pest.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	447478	Advanced	Display Results More	🗨
<input type="checkbox"/>	112	pests.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	437267	Advanced	Display Results More	🗨
<input type="checkbox"/>	113	stalkborer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	63	Advanced	Display Results More	🗨
<input type="checkbox"/>	114	stalk borer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	990	Advanced	Display Results More	🗨
<input type="checkbox"/>	115	borer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	36916	Advanced	Display Results More	🗨
<input type="checkbox"/>	116	cornborer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	32	Advanced	Display Results More	🗨
<input type="checkbox"/>	117	corn borer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	4670	Advanced	Display Results More	🗨
<input type="checkbox"/>	118	noctuidae.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	55502	Advanced	Display Results More	🗨
<input type="checkbox"/>	119	Crambidae.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1734	Advanced	Display Results More	🗨
<input type="checkbox"/>	120	Chrysomelidae.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	23752	Advanced	Display Results More	🗨
<input type="checkbox"/>	121	earworm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1344	Advanced	Display Results More	🗨
<input type="checkbox"/>	122	ear worm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	260	Advanced	Display Results More	🗨
<input type="checkbox"/>	123	armyworm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	9519	Advanced	Display Results More	🗨
<input type="checkbox"/>	124	army worm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	615	Advanced	Display Results More	🗨
<input type="checkbox"/>	125	cutworm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3346	Advanced	Display Results More	🗨
<input type="checkbox"/>	126	cut worm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	121	Advanced	Display Results More	🗨
<input type="checkbox"/>	127	rootworm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1953	Advanced	Display Results More	🗨
<input type="checkbox"/>	128	root worm*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	142	Advanced	Display Results More	🗨
<input type="checkbox"/>	129	Ostrinia.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	6572	Advanced	Display Results More	🗨
<input type="checkbox"/>	130	O nubilalis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1184	Advanced	Display Results More	🗨
<input type="checkbox"/>	131	Diatraea.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2859	Advanced	Display Results More	🗨
<input type="checkbox"/>	132	D grandiosella.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	120	Advanced	Display Results More	🗨
<input type="checkbox"/>	133	D crambidoides.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	11	Advanced	Display Results More	🗨
<input type="checkbox"/>	134	Helicoverpa.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	16723	Advanced	Display Results More	🗨

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

4/8

7/11/2019

Ovid: Search Form

<input type="checkbox"/>	135	H zea.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1606	Advanced	Display Results More	
<input type="checkbox"/>	136	Spodoptera.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	17775	Advanced	Display Results More	
<input type="checkbox"/>	137	S frugiperda.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1528	Advanced	Display Results More	
<input type="checkbox"/>	138	S exigua.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1486	Advanced	Display Results More	
<input type="checkbox"/>	139	Papaipema.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	140	Advanced	Display Results More	
<input type="checkbox"/>	140	P nebris.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	21	Advanced	Display Results More	
<input type="checkbox"/>	141	Elasmopalpus.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	329	Advanced	Display Results More	
<input type="checkbox"/>	142	E lignosellus.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	70	Advanced	Display Results More	
<input type="checkbox"/>	143	D saccharalis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	715	Advanced	Display Results More	
<input type="checkbox"/>	144	Striacosta.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	35	Advanced	Display Results More	
<input type="checkbox"/>	145	S albicosta.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	13	Advanced	Display Results More	
<input type="checkbox"/>	146	Agrotis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	4051	Advanced	Display Results More	
<input type="checkbox"/>	147	A epsilon.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	452	Advanced	Display Results More	
<input type="checkbox"/>	148	Feltia.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	273	Advanced	Display Results More	
<input type="checkbox"/>	149	F jaculifera.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	Display Results More	
<input type="checkbox"/>	150	Pseudaletia.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	811	Advanced	Display Results More	
<input type="checkbox"/>	151	P unipuncta.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	49	Advanced	Display Results More	
<input type="checkbox"/>	152	Diabrotica.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	3653	Advanced	Display Results More	
<input type="checkbox"/>	153	D virgifera.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	382	Advanced	Display Results More	
<input type="checkbox"/>	154	D barberi.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	144	Advanced	Display Results More	
<input type="checkbox"/>	155	ECB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	475	Advanced	Display Results More	
<input type="checkbox"/>	156	SWCB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	34	Advanced	Display Results More	
<input type="checkbox"/>	157	SCSB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	8	Advanced	Display Results More	
<input type="checkbox"/>	158	CEW.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	77	Advanced	Display Results More	
<input type="checkbox"/>	159	FAW.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	239	Advanced	Display Results More	
<input type="checkbox"/>	160	SCB.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	535	Advanced	Display Results More	
<input type="checkbox"/>	161	WBC.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5423	Advanced	Display Results More	
<input type="checkbox"/>	162	WCRW.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	4	Advanced	Display Results More	
<input type="checkbox"/>	163	WCR.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	386	Advanced	Display Results More	
<input type="checkbox"/>	164	NCRW.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	Display Results More	
<input type="checkbox"/>	165	MCR.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	972	Advanced	Display Results More	
<input type="checkbox"/>	166	MCRW.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	Display Results More	
<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	1109342	Advanced	Display Results More	

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

5/8

	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					
<input type="checkbox"/>	168 toleran*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	237434	Advanced	Display Results More		
<input type="checkbox"/>	169 resistan*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	743133	Advanced	Display Results More		
<input type="checkbox"/>	170 protect*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	540573	Advanced	Display Results More		
<input type="checkbox"/>	171 control*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2106732	Advanced	Display Results More		
<input type="checkbox"/>	172 168 or 169 or 170 or 171	3084948	Advanced	Display Results More		
<input type="checkbox"/>	((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.	214830	Advanced	Display Results More		
<input type="checkbox"/>	174 B thuringiensis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5919	Advanced	Display Results More		
<input type="checkbox"/>	175 Bacillus thuringiensis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	20568	Advanced	Display Results More		
<input type="checkbox"/>	176 glufosinate*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2693	Advanced	Display Results More		
<input type="checkbox"/>	177 gluphosinate*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	30	Advanced	Display Results More		
<input type="checkbox"/>	178 Basta*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1973	Advanced	Display Results More		
<input type="checkbox"/>	179 Liberty*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1095	Advanced	Display Results More		
<input type="checkbox"/>	180 Ignite*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1097	Advanced	Display Results More		
<input type="checkbox"/>	181 Rely*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	23676	Advanced	Display Results More		
<input type="checkbox"/>	182 Finale*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	305	Advanced	Display Results More		
<input type="checkbox"/>	183 Challenge*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	202625	Advanced	Display Results More		
<input type="checkbox"/>	184 gl?phosate.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	17687	Advanced	Display Results More		
<input type="checkbox"/>	185 gl?fosate.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	35	Advanced	Display Results More		
<input type="checkbox"/>	186 roundup*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	2865	Advanced	Display Results More		
<input type="checkbox"/>	187 round up*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	267	Advanced	Display Results More		
<input type="checkbox"/>	188 herbicide*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	182777	Advanced	Display Results More		
<input type="checkbox"/>	189 pesticide*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1047733	Advanced	Display Results More		
<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	1292738	Advanced	Display Results More		
<input type="checkbox"/>	191 toleran*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	237434	Advanced	Display Results More		
<input type="checkbox"/>	192 resistan*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	743133	Advanced	Display Results More		
<input type="checkbox"/>	193 protect*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	540573	Advanced	Display Results More		
<input type="checkbox"/>	194 191 or 192 or 193	1369203	Advanced	Display Results More		
<input type="checkbox"/>	((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.	29637	Advanced	Display Results More		
<input type="checkbox"/>	196 173 or 174 or 175 or 195	252736	Advanced	Display Results More		

<input type="checkbox"/>	197	GMO*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	65594	Advanced	Display Results More	
<input type="checkbox"/>	198	LMO*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	441	Advanced	Display Results More	
<input type="checkbox"/>	199	GM.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	42125	Advanced	Display Results More	
<input type="checkbox"/>	200	GE.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	6491	Advanced	Display Results More	
<input type="checkbox"/>	201	transgen*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	90036	Advanced	Display Results More	
<input type="checkbox"/>	202	genetic*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	975667	Advanced	Display Results More	
<input type="checkbox"/>	203	living.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	161502	Advanced	Display Results More	
<input type="checkbox"/>	204	biotech*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	226717	Advanced	Display Results More	
<input type="checkbox"/>	205	202 or 203 or 204	1239040	Advanced	Display Results More	
<input type="checkbox"/>	206	modif*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	381776	Advanced	Display Results More	
<input type="checkbox"/>	207	transform*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	211944	Advanced	Display Results More	
<input type="checkbox"/>	208	manipulat*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	95378	Advanced	Display Results More	
<input type="checkbox"/>	209	improv*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	992585	Advanced	Display Results More	
<input type="checkbox"/>	210	engineer*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	180782	Advanced	Display Results More	
<input type="checkbox"/>	211	deriv*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	441257	Advanced	Display Results More	
<input type="checkbox"/>	212	206 or 207 or 208 or 209 or 210 or 211	1938449	Advanced	Display Results More	
<input type="checkbox"/>	213	((genetic* or living or biotech*) adj3 (modif* or transform* or manipulat* or improv* or engineer* or deriv*)).mp.	138518	Advanced	Display Results More	
<input type="checkbox"/>	214	stack*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	12527	Advanced	Display Results More	
<input type="checkbox"/>	215	197 or 198 or 199 or 200 or 201 or 213 or 214	207385	Advanced	Display Results More	
<input type="checkbox"/>	216	196 and 215	16837	Advanced	Display Results More	
<input type="checkbox"/>	217	GMHT.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	93	Advanced	Display Results More	
<input type="checkbox"/>	218	GEHT.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	122	Advanced	Display Results More	
<input type="checkbox"/>	219	GMHR.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5	Advanced	Display Results More	
<input type="checkbox"/>	220	GEHR.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	6	Advanced	Display Results More	
<input type="checkbox"/>	221	GMHTs.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	222	GEHTs.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	7	Advanced	Display Results More	
<input type="checkbox"/>	223	GMHRs.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	224	GEHRs.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1	Advanced	Display Results More	
<input type="checkbox"/>	225	217 or 218 or 219 or 220 or 221 or 222 or 223 or 224	234	Advanced	Display Results More	
<input type="checkbox"/>	226	216 or 225	16973	Advanced	Display Results More	
<input type="checkbox"/>	227	Maize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	325233	Advanced	Display Results More	
<input type="checkbox"/>	228	corn*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	408902	Advanced	Display Results More	
<input type="checkbox"/>	229	Zea mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	270856	Advanced	Display Results More	
<input type="checkbox"/>	230	Z mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	1144	Advanced	Display Results More	
<input type="checkbox"/>	231	227 or 228 or 229 or 230	451752	Advanced	Display Results More	

<input type="checkbox"/>	232	226 and 231	3237	Advanced	Display Results More	
<input type="checkbox"/>	233	Bt.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	13932	Advanced	Display Results More	
<input type="checkbox"/>	234	Bacillus thuringiensis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	20568	Advanced	Display Results More	
<input type="checkbox"/>	235	B thuringiensis.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	5919	Advanced	Display Results More	
<input type="checkbox"/>	236	233 or 234 or 235	28724	Advanced	Display Results More	
<input type="checkbox"/>	237	maize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	325233	Advanced	Display Results More	
<input type="checkbox"/>	238	corn*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	408902	Advanced	Display Results More	
<input type="checkbox"/>	239	mays.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	270996	Advanced	Display Results More	
<input type="checkbox"/>	240	237 or 238 or 239	451874	Advanced	Display Results More	
<input type="checkbox"/>	241	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	2094	Advanced	Display Results More	
<input type="checkbox"/>	242	Btmaize*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	243	Btcom*.mp. [mp=abstract, title, original title, broad terms, heading words, identifiers, cabicodes]	0	Advanced	Save More	
<input type="checkbox"/>	244	241 or 242 or 243	2094	Advanced	Display Results More	
<input type="checkbox"/>	245	39 or 40 or 106 or 232 or 244	4078	Advanced	Display Results More	
<input type="checkbox"/>	246	limit 245 to yr="2018 - 2019"	158	Advanced	Display Results More	

Combine with:

[View Saved](#)

[Basic Search](#) |
 [Find Citation](#) |
 [Search Tools](#) |
 [Search Fields](#) |
 [Advanced Search](#) |
 [Multi-Field Search](#)

1 Resource selected | [Hide](#) | [Change](#)

CAB Abstracts 1910 to 2019 Week 26

Enter keyword or phrase
(* or \$ for truncation)

☒ Keyword
 ☐ Author
 ☐ Title
 ☐ Journal

[Limits](#) (expand)

☐ Map Term to Subject Heading

Ovid® 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)



Search My Workspace

▼ Search History (246)

[View Saved](#)

<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	
<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	Save More	
<input type="checkbox"/>	4	1 or 2 or 3	131	Advanced	Display Results More	
<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]	35	Advanced	Display Results More	
<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]	5	Advanced	Display Results More	
<input type="checkbox"/>	7	SYN-IR162-4.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]	0	Advanced	Save More	
<input type="checkbox"/>	8	5 or 6 or 7	40	Advanced	Display Results More	
<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]	21	Advanced	Display Results More	
<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]	5	Advanced	Display Results More	
<input type="checkbox"/>	11	SYN-IR6?4-5.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"/>	12	9 or 10 or 11	26	Advanced	Display Results More	
<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]	50	Advanced	Display Results More	
<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]	20	Advanced	Display Results More	
<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	Save More	
<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	Save More	
<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	Display Results More	
<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	Save More	

	supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				
<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	Save More	
<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	Save More	
<input type="checkbox"/>	21 "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]	1	Advanced	Display Results More	
<input type="checkbox"/>	22 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	Save More	
<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	Save More	
<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	Save More	
<input type="checkbox"/>	25 "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	Save More	
<input type="checkbox"/>	26 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	Save More	
<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	Save More	
<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	Save More	
<input type="checkbox"/>	29 "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	Save More	
<input type="checkbox"/>	30 M0NOO021*.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"/>	31 M0N00021*.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"/>	32 M0Nempty 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	Save More	
<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	75	Advanced	Display Results More	
<input type="checkbox"/>	34 8 or 12 or 33	131	Advanced	Display Results More	
<input type="checkbox"/>	35 4 and 34	33	Advanced	Display Results More	
<input type="checkbox"/>	36 12 or 33	95	Advanced	Display Results More	
<input type="checkbox"/>	37 8 and 36	4	Advanced	Display Results More	
<input type="checkbox"/>	38 12 and 33	6	Advanced	Display Results More	
<input type="checkbox"/>	39 35 or 37 or 38	34	Advanced	Display Results More	
<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	8	Advanced	Display Results More	

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

<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	Save More	
<input type="checkbox"/>	60	Gluphosinate 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	Save More	
<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	Save More	
<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]	4626	Advanced	Display Results More	
<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	Save More	
<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	Save More	
<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	Save More	
<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	4742	Advanced	Display Results More	
<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]	17	Advanced	Display Results More	
<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	Save More	
<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	Save More	
<input type="checkbox"/>	70	Vip3 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	Save More	
<input type="checkbox"/>	71	67 or 68 or 69 or 70	17	Advanced	Display Results More	
<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, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	18	Advanced	Display Results More	
<input type="checkbox"/>	73	Mannose 6-phosphate 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]	369	Advanced	Display Results More	
<input type="checkbox"/>	74	Phosphomannoseisomerase.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	Display Results More	
<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]	244	Advanced	Display Results More	
<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	Save More	
<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	Save More	

<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	Display Results More	
<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	Display Results More	
<input type="checkbox"/>	80	72 or 73 or 74 or 75 or 76 or 77 or 78 or 79	469	Advanced	Display Results More	
<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]	29	Advanced	Display Results More	
<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	Save More	
<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 concept word, rare disease supplementary concept word, unique identifier, synonyms]	0	Advanced	Save More	
<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]	145	Advanced	Display Results More	
<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	Display Results More	
<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	Display Results More	
<input type="checkbox"/>	87	81 or 82 or 83 or 84 or 85 or 86	175	Advanced	Display Results More	
<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]	6	Advanced	Display Results More	
<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]	28	Advanced	Display Results More	
<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]	303	Advanced	Display Results More	
<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]	143	Advanced	Display Results More	
<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	Save More	
<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]	4107	Advanced	Display Results More	
<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]	52	Advanced	Display Results More	
<input type="checkbox"/>	95	"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"/>	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]	28	Advanced	Display Results More	
<input type="checkbox"/>	97	88 or 89 or 90 or 91 or 92 or 93 or 94 or 95 or 96	4361	Advanced		

[Display Results](#) | [More](#)

<input type="checkbox"/>	98	71 or 80 or 87 or 97	5015	Advanced	Display Results More	
<input type="checkbox"/>	99	49 and 98	41	Advanced	Display Results More	
<input type="checkbox"/>	100	71 or 80 or 87 or 97	5015	Advanced	Display Results More	
<input type="checkbox"/>	101	66 and 100	19	Advanced	Display Results More	
<input type="checkbox"/>	102	87 or 97	4534	Advanced	Display Results More	
<input type="checkbox"/>	103	71 and 102	3	Advanced	Display Results More	
<input type="checkbox"/>	104	80 and 97	2	Advanced	Display Results More	
<input type="checkbox"/>	105	87 and 97	2	Advanced	Display Results More	
<input type="checkbox"/>	106	99 or 101 or 103 or 104 or 105	60	Advanced	Display Results More	
<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]	118272	Advanced	Display Results More	
<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]	44577	Advanced	Display Results More	
<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]	17520	Advanced	Display Results More	
<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]	16524	Advanced	Display Results More	
<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]	28369	Advanced	Display Results More	
<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]	10510	Advanced	Display Results More	
<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	Display Results More	
<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]	52	Advanced	Display Results More	
<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]	2326	Advanced	Display Results More	
<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	Display Results More	
<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]	690	Advanced	Display Results More	
<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]	2080	Advanced	Display Results More	
<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]	478	Advanced	Display Results More	
<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]	1100	Advanced	Display Results More	
<input type="checkbox"/>	121	earworm*.mp. [mp=title, abstract, original title, name of substance word, subject	285	Advanced		

	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]			Display Results More	
<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	Display Results More	
<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 concept word, rare disease supplementary concept word, unique identifier, synonyms]	1204	Advanced	Display Results More	
<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]	47	Advanced	Display Results More	
<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]	318	Advanced	Display Results More	
<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]	8	Advanced	Display Results More	
<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]	529	Advanced	Display Results More	
<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	Display Results More	
<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]	675	Advanced	Display Results More	
<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]	174	Advanced	Display Results More	
<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]	218	Advanced	Display Results More	
<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	Display Results More	
<input type="checkbox"/> 133	D cramboides.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"/> 134	Helicoverpa.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]	2210	Advanced	Display Results More	
<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]	295	Advanced	Display Results More	
<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]	10603	Advanced	Display Results More	
<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]	502	Advanced	Display Results More	
<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]	472	Advanced	Display Results More	
<input type="checkbox"/> 139	Papaipema.mp. [mp=title, abstract, original title, name of substance word, subject	4	Advanced		

	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]				Display Results More	
<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	Display Results More	
<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]	14	Advanced	Display Results More	
<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]	7	Advanced	Display Results More	
<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]	95	Advanced	Display Results More	
<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]	23	Advanced	Display Results More	
<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]	11	Advanced	Display Results More	
<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]	276	Advanced	Display Results More	
<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]	76	Advanced	Display Results More	
<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]	10	Advanced	Display Results More	
<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	Save More	
<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]	151	Advanced	Display Results More	
<input type="checkbox"/>	151	P unipuncta.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]	14	Advanced	Display Results More	
<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]	541	Advanced	Display Results More	
<input type="checkbox"/>	153	D virgifera.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	Display Results More	
<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]	20	Advanced	Display Results More	
<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]	883	Advanced	Display Results More	
<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]	7	Advanced	Display Results More	
<input type="checkbox"/>	157	SCSB.mp. [mp=title, abstract, original title, name of substance word, subject heading	75	Advanced		

	word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				Display Results More	
<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]	130	Advanced	Display Results More		
<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]	101	Advanced	Display Results More		
<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]	784	Advanced	Display Results More		
<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]	15901	Advanced	Display Results More		
<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	Display Results More		
<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]	220	Advanced	Display Results More		
<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	Save More		
<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]	3928	Advanced	Display Results More		
<input type="checkbox"/>	166 MCRW.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"/>	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	206312	Advanced	Display Results More		
<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]	314079	Advanced	Display Results More		
<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]	1050157	Advanced	Display Results More		
<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]	794721	Advanced	Display Results More		
<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]	5090158	Advanced	Display Results More		
<input type="checkbox"/>	172 168 or 169 or 170 or 171	6524364	Advanced	Display Results More		
<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.	28107	Advanced	Display Results More		
<input type="checkbox"/>	174 B thuringiensis.mp. [mp=title, abstract, original title, name of substance word, subject	2202	Advanced	Display Results More		

	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"/>	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]	8341	Advanced	Display Results More		
<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]	424	Advanced	Display Results More		
<input type="checkbox"/>	177 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]	9	Advanced	Display Results More		
<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]	790	Advanced	Display Results More		
<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]	1746	Advanced	Display Results More		
<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]	1413	Advanced	Display Results More		
<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]	72901	Advanced	Display Results More		
<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]	461	Advanced	Display Results More		
<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]	592444	Advanced	Display Results More		
<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]	3161	Advanced	Display Results More		
<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]	0	Advanced	Save More		
<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]	1081	Advanced	Display Results More		
<input type="checkbox"/>	187 round up*.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]	556	Advanced	Display Results More		
<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]	24180	Advanced	Display Results More		
<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]	54925	Advanced	Display Results More		
<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	738361	Advanced	Display Results More		
<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]	314079	Advanced	Display Results More		
<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	1050157	Advanced	Display Results More		

	supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]				
<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]	794721	Advanced	Display Results More	<input type="checkbox"/>
<input type="checkbox"/>	194 191 or 192 or 193	2042634	Advanced	Display Results More	<input type="checkbox"/>
<input type="checkbox"/>	195 ((glufosinate* or glufosinate* 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.	7956	Advanced	Display Results More	<input type="checkbox"/>
<input type="checkbox"/>	196 173 or 174 or 175 or 195	41240	Advanced	Display Results More	<input type="checkbox"/>
<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]	1765	Advanced	Display Results More	<input type="checkbox"/>
<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]	2230	Advanced	Display Results More	<input type="checkbox"/>
<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 concept word, rare disease supplementary concept word, unique identifier, synonyms]	49444	Advanced	Display Results More	<input type="checkbox"/>
<input type="checkbox"/>	200 GE.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]	17692	Advanced	Display Results More	<input type="checkbox"/>
<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]	203797	Advanced	Display Results More	<input type="checkbox"/>
<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]	3763454	Advanced	Display Results More	<input type="checkbox"/>
<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]	364557	Advanced	Display Results More	<input type="checkbox"/>
<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]	62396	Advanced	Display Results More	<input type="checkbox"/>
<input type="checkbox"/>	205 202 or 203 or 204	4128959	Advanced	Display Results More	<input type="checkbox"/>
<input type="checkbox"/>	206 modif*.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]	1048838	Advanced	Display Results More	<input type="checkbox"/>
<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]	574786	Advanced	Display Results More	<input type="checkbox"/>
<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]	183625	Advanced	Display Results More	<input type="checkbox"/>
<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]	2289743	Advanced	Display Results More	<input type="checkbox"/>
<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]	236647	Advanced	Display Results More	<input type="checkbox"/>
<input type="checkbox"/>	211 deriv*.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]	1850491	Advanced	Display Results More	<input type="checkbox"/>
<input type="checkbox"/>	212 206 or 207 or 208 or 209 or 210 or 211	5458643	Advanced	Display Results More	<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.	146154	Advanced	Display Results More	
<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]	40993	Advanced	Display Results More	
<input type="checkbox"/>	215	197 or 198 or 199 or 200 or 201 or 213 or 214	417414	Advanced	Display Results More	
<input type="checkbox"/>	216	196 and 215	5364	Advanced	Display Results More	
<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]	31	Advanced	Display Results More	
<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]	505	Advanced	Display Results More	
<input type="checkbox"/>	219	GMHR.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	
<input type="checkbox"/>	220	GEHR.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]	20	Advanced	Display Results More	
<input type="checkbox"/>	221	GMHTs.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"/>	222	GEHTs.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	
<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	Save More	
<input type="checkbox"/>	224	GEHRs.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	Display Results More	
<input type="checkbox"/>	225	217 or 218 or 219 or 220 or 221 or 222 or 223 or 224	597	Advanced	Display Results More	
<input type="checkbox"/>	226	216 or 225	5929	Advanced	Display Results More	
<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]	28858	Advanced	Display Results More	
<input type="checkbox"/>	228	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]	199006	Advanced	Display Results More	
<input type="checkbox"/>	229	Zea mays.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]	33969	Advanced	Display Results More	
<input type="checkbox"/>	230	Z mays.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]	321	Advanced	Display Results More	
<input type="checkbox"/>	231	227 or 228 or 229 or 230	231004	Advanced	Display Results More	
<input type="checkbox"/>	232	226 and 231	1300	Advanced	Display Results More	
<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]	13514	Advanced	Display Results More	
<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]	8341	Advanced	Display Results More	

<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]	2202	Advanced	Display Results More	—
<input type="checkbox"/>	236	233 or 234 or 235	19650	Advanced	Display Results More	
<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]	28858	Advanced	Display Results More	
<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]	199006	Advanced	Display Results More	
<input type="checkbox"/>	239	mays.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]	34193	Advanced	Display Results More	
<input type="checkbox"/>	240	237 or 238 or 239	231188	Advanced	Display Results More	
<input type="checkbox"/>	241	((Bt or Bacillus thuringiensis or B thuringiensis) adj5 (maize* or corn* or mays)).mp.	743	Advanced	Display Results More	
<input type="checkbox"/>	242	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	
<input type="checkbox"/>	243	Btcorn*.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"/>	244	241 or 242 or 243	743	Advanced	Display Results More	
<input type="checkbox"/>	245	39 or 40 or 106 or 232 or 244	1533	Advanced	Display Results More	
<input type="checkbox"/>	246	limit 245 to yr="2018 - 2019"	145	Advanced	Display Results More	

Combine with:

[View Saved](#)

[Basic Search](#) |
 [Find Citation](#) |
 [Search Tools](#) |
 [Search Fields](#) |
 [Advanced Search](#) |
 [Multi-Field Search](#)

1 Resource selected | [Hide](#) | [Change](#)

Ovid MEDLINE(R) ALL 1946 to July 10, 2019

Enter keyword or phrase
(* or \$ for truncation)

☒ Keyword
 ☐ Author
 ☐ Title
 ☐ Journal

Limits *(expand)*

☐ Map Term to Subject Heading